City of Bentonville, Arkansas
Bentonville WRRF Improvements

B&V Project 417296
B&V File 80.0930
September 14, 2026

Crossland Heavy Contractors
Attention: Mr. Matt Hardin

Reference is made to your Submittal 15500-05E Packaged Air Conditioning Roof Top Units dated August 28, 2026. The following data pertains to Section(s) 15500 of the Specifications.

Identification	Manufacturer	Description	Review Status: CODE 1 - NO EXCEPTIONS NOTED	CODE 2 - COMMENTS NOTED	CODE 3 - COMMENTS NOTED/CONFIRM	CODE 4 - COMMENTS NOTED/RESUBMIT	CODE 5 - REJECTED/RESUBMIT	CODE 6 - RECEIPT ACKNOWLEDGED
Data	Airtech Corporation/Aaon	Packaged Air Conditioning Top Units - REVE		X				

Engineer's review of drawings and data submitted by Contractor covers only general conformity to the Drawings and Specifications, external connections and dimensions which affect the layout. Engineer's review does not indicate a thorough review of all dimensions, quantities, and details of the material equipment, devices, or item shown. Engineer's review shall not relieve Contractor of Contractor's responsibility for errors, omissions, or deviations in the drawings and data, nor of the Contractor's sole responsibility for compliance with the Contract Documents.

Remarks

1. Response noted on Previous Comment #2a. Equipment electronic components should not be left unprotected for an extended time or be operated for more than brief instances before conformal coating is applied. Surfaces should be free of any contamination before applying the conformal coating. Equipment with conformal coatings must be in proper operating condition and meet specified capacities per 15500 2.02.
2. Response noted on previous comment #2b. Coating is not required for electric heating elements, the heating coils should be of corrosion resistant materials of fin-tube construction per 15500 2.04.A.10.

BLACK & VEATCH CORPORATION

Bridget Moore
Engineering Manager

By: Soukat Mattigar, Michele Roth, Criag Hardin

24A03SP - Bentonville WRRF Improvements

1901 N.E. A Street
Bentonville, Arkansas 72712
United States

Crossland Heavy Contractors, Inc.
1800 S 52nd St, Ste 410
Rogers, Arkansas 72758
United States
(479) 464-7077

Title
15500 - Heating, Ventilating, and Air Conditioning : Product Information : Rooftop Units

Submittal Manager
Adrian Ensaldo

Spec Section
15500 - Heating, Ventilating, and Air Conditioning

Type
Product Information

Number
15500-5

Rev
E

Description
A. Drawings and Data 1. Complete assembly and installation drawings, and wiring and schematic diagrams, together with detailed specifications and data covering materials, parts, devices, and accessories forming a part of the equipment furnished, shall be submitted in accordance with the Submittals Procedures section. Device tag numbers indicated on the Drawings shall be referenced on the wiring and schematic diagrams where applicable. The data and specifications for each unit shall include, but shall not be limited to, the following: a. Makeup Air Units 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Input and output heating capacities 5) Filter velocities 6) Overall dimensions and required clearances 7) Net weight and load distribution 8) Performance curves with the specified operating point clearly identified for each unit, type, and model, with capacity in cubic feet per minute as the abscissa and brake horsepower, static pressure, and efficiency as the ordinate. The fan curves shall include a family of curves for at least 5 different rotative speeds on a single chart 9) Certified AMCA standard test code sound power output data for the fan outlet and casing when operating at the specified volume flow rate. Sound data shall list dB re 10-12 watts in each octave band, with midrange frequencies starting at 63 Hz and ending at 8,000 Hz 10) Multiline wiring diagrams clearly indicating factory installed and field installed wiring with all terminals identified 11) Electrical requirements including voltage, number of phases, and amperage 12) Where specified, information on equipment manufacturers' representatives b. Fans 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Overall dimensions and required clearances 5) Net weight and load distribution 6) Performance curves with the specified operating point clearly identified for each unit, type, and model, with capacity in cubic feet per minute as the abscissa and brake horsepower, static pressure, and efficiency as the ordinate. The fan curves shall include a family of curves for at least 3 different rotative speeds on a single chart 7) Certified AMCA standard test code sound power output data for the fan outlet and casing when operating at the specified volume flow rate. Sound data shall list dB re 10-12 watts in each octave band, with midrange frequencies starting at 63 Hz and ending at 8,000 Hz 8) Where specified, information on equipment manufacturers' representatives c. Equipment (not specifically listed) 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Manufacturer's performance data 5) Overall dimensions and required clearances 6) Net weight and load distribution 7) Wiring diagrams d. Sheet Metal Ductwork 1) Sheet metal duct fabrication drawings indicating dimensions of individual shop and field fabricated sections, top and/or bottom duct elevations, joint locations, and dimensions of duct from walls or column rows 2) Pressure and seal classifications 3) Reinforcement types and spacing 4) Joint and seam types 5) Hanger and support types, spacing, and attachment methods 6) Access panel and door construction, sizes, and locations 7) Duct sealant, adhesive, gasket, and tape information 8) Coatings 9) Ductwork materials and thicknesses 10) Product data demonstrating compliance with ASHRAE 62.1 e. Temperature Controls 1) Published descriptive data on each item of equipment and accessories, indicating all specific characteristics and options and identified with the designation used herein and on the Drawings. 2) Schematic control diagrams giving specific data on all settings, ranges, actions, adjustments, and normal positions. Although schematic, these diagrams shall, as closely as possible, represent the actual system with all significant equipment and devices identified and located relative to each other. These diagrams shall also show detailed multiline wiring with all terminals accurately identified. The wiring diagrams shall show the internal connections of the temperature control panels and all field wiring to equipment remote from the control panels, including wiring to Ownerfurnished equipment. The wiring

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Submittal Response

Remarks
1. Responses 1, 3-8 noted.
2. Previous comment #2, manufacturer's concern on electronic servicing is noted.
a. Conformal coating on electronics is recommended for units PAC-A01, PAC-A02, PAC-J01, PAC-J02, PHP-L01,
PHP-L02, and PHP-L03 as they are located in an environment where hydrogen sulfide is likely to be present in the ambient air, not just the airstream. If conformal coating on electronics is not provided for these units, confirm the sealed electrical compartment has a corrosion resistant outdoor NEMA rating.
a. Electronic components will receive a conformal coating of Techspray UR Urethane Conformal Coating Product # 2104 once start-up is concluded.
b. Conformal coating for the maintenance building PHP (PHP-M01) is not required. Provide coil coating for heating elements of PHP-M01.
b. Manufacture does not provide coating for electronic heating elements. If required, a field applied coating can be applied.
c. Factory coating on the housing of all PAC and PHP units is required.
c. Factory Coating is applied
3. 5-year Warranty is noted to have been received during the submittal review.
4. PAC-A01 / PAC-A02 / PAC-J01 / PAC-J02 / PHP-LO01: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer.
4. Contractor shall coordinate
5. Unit operating weights for PAC-A01/PAC-A02/PAC-J01/ PAC-J02 listed at 2039 LBS is higher than the scheduled weight of 1600 LBS. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/ designer.
5. Contractor shall coordinate
6. PHP-L02: Contractor to coordinate exact location of openings with existing joists and framing members.
6. Contractor shall coordinate
7. PHP-L03: Contractor to coordinate exact location of openings with existing joists and framing members.
7. Contractor shall coordinate
8. PHP-M0l: This unit is supported by a concrete slab and grade.
8. Confirmed
BLACK & VEATCH CORPORATION
Bridget Moore

City of Bentonville, Arkansas
Bentonville WRRF Improvements

B&V Project 417296
B&V File 80.0930
June 8, 2026

Crossland Heavy Contractors
Attention: Mr. Matt Hardin

Reference is made to your Submittal 15500-05-RevC Packaged Air Conditioning Roof Top Units dated March 17, 2026. The following data pertains to Section(s) 15500 of the Specifications.

Identification	Manufacturer	Description	Review Status: CODE 1 - NO EXCEPTIONS NOTED	CODE 2 - COMMENTS NOTED	CODE 3 - COMMENTS NOTED/CONFIRM	CODE 4 - COMMENTS NOTED/RESUBMIT	CODE 5 - REJECTED/RESUBMIT	CODE 6 - RECEIPT ACKNOWLEDGED
Data	Airtech Corporation/Aaon	Packaged Air Conditioning Top Units - REVC			X			

Engineer's review of drawings and data submitted by Contractor covers only general conformity to the Drawings and Specifications, external connections and dimensions which affect the layout. Engineer's review does not indicate a thorough review of all dimensions, quantities, and details of the material equipment, devices, or item shown. Engineer's review shall not relieve Contractor of Contractor's responsibility for errors, omissions, or deviations in the drawings and data, nor of the Contractor's sole responsibility for compliance with the Contract Documents.

Remarks

1. Responses 1, 3-8 noted.
2. Previous comment #2, manufacturer's concern on electronic servicing is noted.
    a. Conformal coating on electronics is recommended for units PAC-A01, PAC-A02, PAC-J01, PAC-J02, PHP-L01, PHP-L02, and PHP-L03 as they are located in an environment where hydrogen sulfide is likely to be present in the ambient air, not just the airstream. If conformal coating on electronics is not provided for these units, confirm the sealed electrical compartment has a corrosion resistant outdoor NEMA rating.
    b. Conformal coating for the maintenance building PHP (PHP-M01) is not required. Provide coil coating for heating elements of PHP-M01.
    c. Factory coating on the housing of all PAC and PHP units is required.
3. 5-year Warranty is noted to have been received during the submittal review.
4. PAC-A01 / PAC-A02 / PAC-J01 / PAC-J02 / PHP-LO01: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer.
5. Unit operating weights for PAC-A01/PAC-A02/PAC-J01/ PAC-J02 listed at 2039 LBS is higher than the scheduled weight of 1600 LBS. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/ designer.

6. PHP-L02: Contractor to coordinate exact location of openings with existing joists and framing members.
7. PHP-L03: Contractor to coordinate exact location of openings with existing joists and framing members.
8. PHP-M0l: This unit is supported by a concrete slab and grade.

BLACK & VEATCH CORPORATION

Bridget Moore
Engineering Manager

By: Soukat Mattigar, Michele Roth, Criag Hardin

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Title
15500 - Heating, Ventilating, and Air Conditioning : Product Information : Rooftop Units

Submittal Manager
Adrian Ensaldo

Spec Section
15500 - Heating, Ventilating, and Air Conditioning

Type
Product Information

Number
15500-5

Rev
C

Description

A. Drawings and Data 1. Complete assembly and installation drawings, and wiring and schematic diagrams, together with detailed specifications and data covering materials, parts, devices, and accessories forming a part of the equipment furnished, shall be submitted in accordance with the Submittals Procedures section. Device tag numbers indicated on the Drawings shall be referenced on the wiring and schematic diagrams where applicable. The data and specifications for each unit shall include, but shall not be limited to, the following: a. Makeup Air Units 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Input and output heating capacities 5) Filter velocities 6) Overall dimensions and required clearances 7) Net weight and load distribution 8) Performance curves with the specified operating point clearly identified for each unit, type, and model, with capacity in cubic feet per minute as the abscissa and brake horsepower, static pressure, and efficiency as the ordinate. The fan curves shall include a family of curves for at least 5 different rotative speeds on a single chart 9) Certified AMCA standard test code sound power output data for the fan outlet and casing when operating at the specified volume flow rate. Sound data shall list dB re 10-12 watts in each octave band, with midrange frequencies starting at 63 Hz and ending at 8,000 Hz 10) Multiline wiring diagrams clearly indicating factory installed and field installed wiring with all terminals identified 11) Electrical requirements including voltage, number of phases, and amperage 12) Where specified, information on equipment manufacturers' representatives b. Fans 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Overall dimensions and required clearances 5) Net weight and load distribution 6) Performance curves with the specified operating point clearly identified for each unit, type, and model, with capacity in cubic feet per minute as the abscissa and brake horsepower, static pressure, and efficiency as the ordinate. The fan curves shall include a family of curves for at least 3 different rotative speeds on a single chart 7) Certified AMCA standard test code sound power output data for the fan outlet and casing when operating at the specified volume flow rate. Sound data shall list dB re 10-12 watts in each octave band, with midrange frequencies starting at 63 Hz and ending at 8,000 Hz 8) Where specified, information on equipment manufacturers' representatives c. Equipment (not specifically listed) 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Manufacturer's performance data 5) Overall dimensions and required clearances 6) Net weight and load distribution 7) Wiring diagrams d. Sheet Metal Ductwork 1) Sheet metal duct fabrication drawings indicating dimensions of individual shop and field fabricated sections, top and/or bottom duct elevations, joint locations, and dimensions of duct from walls or column rows 2) Pressure and seal classifications 3) Reinforcement types and spacing 4) Joint and seam types 5) Hanger and support types, spacing, and attachment methods 6) Access panel and door construction, sizes, and locations 7) Duct sealant, adhesive, gasket, and tape information 8) Coatings 9) Ductwork materials and thicknesses 10) Product data demonstrating compliance with ASHRAE 62.1 e. Temperature Controls 1) Published descriptive data on each item of equipment and accessories, indicating all specific characteristics and options and identified with the designation used herein and on the Drawings. 2) Schematic control diagrams giving specific data on all settings, ranges, actions, adjustments, and normal positions. Although schematic, these diagrams shall, as closely as possible, represent the actual system with all significant equipment and devices identified and located relative to each other. These diagrams shall also show detailed multiline wiring with all terminals accurately identified. The wiring diagrams shall show the internal connections of the temperature control panels and all field wiring to equipment remote from the control panels, including wiring to Ownerfurnished

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SUBMITTAL

JOB NAME	Bentonville Wate Water Resource Recovery Facility
PRODUCT	Packaged Air Conditioners/ Packaged Heat Pumps
MANUFACTURER	AAON
SPECIFICATION	156500-6-11 2.50
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 15, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

1100 Kendrick Ave. Springdale AR, 72764

SUBMITTAL NOTES

Review Comments

Remarks

1. **Please include bookmarks in the submittal PDF for the different unit tags and products.**
2. **Blygold coating submitted is tested on aluminum panels. This coating does not appear to be intended to be used as conformal coating for electronic circuit boards and wiring connections. Confirm or submit appropriate coating product for electronics.**
3. **Response to comment is not clear that the increased MCA rating has been coordinated with the electrical power circuit. Contractor to confirm.**
4. **Response to comments on roof curbs is not found. Confirm roof curbs are provided and include product information.**
5. **PAC A0l / PAC A02 / PAC J0l / PAC J02 / PHP L0l: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/ designer.**
6. **PHP L02: Contractor to coordinate exact location of openings with existing joists and framing members.**
7. **PHP L03: Contractor to coordinate exact location of openings with existing joists and framing members.**
8. **PHP M0l: This unit is supported by a concrete slab and grade**

Review Response

1. **Bookmarks are included on this submittal document**

2. The equipment manufacturer does not recommend coating electronic terminals or connections due to serviceability concerns. If the electrical is coated there is not a viable way to service, diagnose, or maintain proper operation of the systems. The note for H-2 Note 2 is listed below and calls out a conformal coating however, the spec calls for all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating. The H-2 Note #2 appears to be pulled from the Spec section 15650-11 Casing- a. DOAS 15650-12 a cont. Uncoated galvanized steel exterior is not acceptable. controls panels, wiring connections and other sensitive electronics shall be provided with heresite, E-coat, micro guard, or equal. There is not a spec call out for electrical coating on the Packaged Roof Top Units. Furthermore, the electrical components are in an isolated compartment not subject to exposure of the air stream.

H-2 Note 2 Packaged Roof Top Units 2. UNIT IS SUBJECT TO CORROSION FROM A HYDROGEN SULFIDE LADEN ATMOSPHERE. ALL AIRSTREAM COMPONENTS AND EXPOSED HEAT TRANSFER COMPONENTS SHALL BE GIVEN A PROTECTIVE SPECIAL COATING OF HERESITE, MICROGUARD 1, ELECTROFIN E-COAT OR APPROVED EQUAL. "CONTROLS PANELS, WIRING CONNECTIONS AND OTHER SENSITIVE ELECTRONICS – Pulled from DOAS Spec section 15650-11,12 a."

Spec - 15650-7 c. Where indicated in the schedules on the Drawings, all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating.

3. Contractor to Confirm Contractor Confirms

4. Curb data provided for each submitted section. Curbs to include Heresite P-413 coating by Blygold.

5. Contractor to Confirm

6. Contractor to Confirm

7. Contractor to Confirm

8. Contractor to Confirm

Contractor Confirms

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Waste Water Resource Facility
PRODUCT	ROOF TOP UNITS
MANUFACTURER	AAON
SPECIFICATION	15650
LOCATION	Bentonville, AR
ENGINEER	Black and Veatch
CONTRACTOR	Comfort System USA
CONTRACTOR POC	Josh Zuber
DATE	1/29/2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

1100 Kendrick Ave. Springdale AR, 72764

REVISE REMARKS FROM PAGE #5 BELOW

Remarks

1. Roof Top Units are specified under Division 15650, revise Crossland cover page submittal title and headings.
2. AAON is not a listed manufacturer in specification section 15650. To be considered as a substitute, submit additional information on construction materials / components to prove compliance with section 15650 – 2.05.A. Unit casing is required to be insulated. A factory disconnect is required. Confirm.
3. Contractor to confirm any increased MCA rating above listing on Contract Drawing H-3 has been coordinated with electrical trade and the respective power supply circuit.
4. Confirm the VFDs provided are corrosion resistant or have corrosion resistant enclosures.
5. Heresite coating information noted. Conformal coating for control panels, wiring connections and other sensitive electronics is also required by Schedule Note 2 on Contract Drawing H-3. Confirm this is provided.
6. Confirm all units are provided with a roof curb 16 inches in height as required by spec paragraph 2.05.A.13.e.

RESUBMITAL COMMENTS:

1. CLOUD NOTED TO SPEC SECTION 15650
2. SPEC SECTION 15650-2.05.A UNIT CONSTRUCTION:

B. Construction

1.All cabinet walls, access doors, and roof shall be fabricated of double wall, impact resistant, rigid polyurethane foam panels.

2.Unit insulation shall have a minimum thermal resistance R-value of 13. Foam insulation shall have a minimum density of 2 pounds/cubic foot and shall be tested in accordance with ASTM D-1929-11 for a minimum flash ignition temperature of 610°F.

3.Unit construction shall be double wall with G90 galvanized steel on both sides and a thermal break. Double wall construction with a thermal break prevents moisture accumulation on the insulation, provides a cleanable interior, reduces heat transfer through the panel, and prevents exterior condensation on the panel.

4.Unit shall be designed to reduce air leakage and infiltration through the cabinet. Cabinet leakage shall not exceed 1% of total airflow when tested at 3 times the minimum external static pressure provided in AHRI Standard 340/360. Panel deflection shall not exceed L/240 ratio at 125% of design static pressure, at a maximum 8 inches of positive or negative static pressure, to reduce air leakage. Deflection shall be measured at the midpoint of the panel height and width. Continuous sealing shall be included between panels and between access doors and openings to reduce air leakage. Refrigerant piping and electrical conduit through cabinet panels shall include sealing to reduce air leakage.

5.Roof of the air tunnel shall be sloped to provide complete drainage. Cabinet shall have rain break overhangs above access doors.

6.Access to filters, dampers, cooling coils, reheat coil, heaters, energy recovery wheels, compressors, water-cooled condensers, and electrical and controls components shall be through hinged access doors with quarter turn, lockable handles. Full length stainless steel piano hinges shall be included on the doors.

7.Exterior paint finish shall be capable of withstanding at least 2,500 hours, with no visible corrosive effects, when tested in a salt spray and fog atmosphere in accordance with ASTM B 117-95 test procedure.

8.Units with cooling coils shall include double sloped 304 stainless steel drain pans.

9.Unit shall be provided with base (horizontal) discharge and (horizontal) return air openings. Openings shall have upturned flanges of at least 1/2 inch in height around the opening.

10.Unit shall include lifting lugs on the top of the unit. (6-50, 60, 70 tons)

11.Unit shall include lifting lugs on the base of the unit. (75-140 tons)

3. COORDINATE WITH ELECTRICAL
4. VFDs mounted in corrosion resistant enclosure, see page #19
5. BLYGOLD COATING, SEE DOCUMENTATION BELOW PAGES 3-4 AND ATTACHED WARRANTY DOCUMENTATION.

element™

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Blygold America

CONFORMAL COATING Report

SALT SPRAY TESTING ACC. TO ASTM B117-11 OF POLUAL XT TREATED SAMPLES

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Element Materials Technology Amsterdam B.V.

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Unless otherwise expressly agreed with us in writing, all our supplies are exclusively subject to our Terms of delivery and all work is exclusively carried out by us subject to the stipulations concerning the Execution of Works as filed at the Chamber of Commerce at Amsterdam on June 27, 2005 under no. 33194077

Customer	: Blygold International P.O. Box 44 3990 DA Houten The Netherlands
Reference Customer	: -.
Project Element	: EAM005716
Report	: EAM005716-1 Rev. 0
Author	: J.P.M. Rademaker MSc.
Date Report	: 26 November 2013
Number of Pages	: 3
Classification	: n.a.
Distribution	: Blygold International Attn. mr. J. de Wit 1x Files Element Amsterdam 1x

1 INTRODUCTION

Element Materials Technology Amsterdam B.V. (Element Amsterdam) was requested by Blygold International to conduct a salt spray test according to ASTM B117-11 on three coated aluminum panels (75 x 150mm). The panels were coated with Polual XT
The results and conclusions given in this report are applicable to the investigated objects only and are based on the referred information. This report contains no appendices.

2 RESULTS

The salt spray test was conducted according to ASTM B117-11 for a period of 11,000 hours. The panels were positioned at an angle of 15° from the vertical. After the test the samples were gently washed in running tap water and visually inspected. No defects (blistering, decohesion) were observed. The samples showed a slight discoloration. The surface of the samples was free of aluminum corrosion products.
In figures **1** and 2 the samples are depicted before and after the test.

3 CONCLUSION

The Polual XT coating provided a very good protection of aluminum panels in an extreme long salt spray test (11,000 hours) according to ASTM B117-11.

Element Materials Technology Amsterdam

Authorised: G. Barents
Manager

Author: J.P.M. Rademaker MSc.

Furthermore, we inform you that we will keep the investigated objects, as far as they are important to the judgment of the results of the investigation, for a period of at least six months. If we have not received other instructions from you before the ending of this period, we assume Element can destroy these objects after that period, at a time that suits us.

City of Bentonville, Arkansas
Bentonville WRRF Improvements

B&V Project 417296
B&V File 80.0930
January 15, 2026

Crossland Heavy Contractors
Attention: Mr. Matt Hardin

Reference is made to your Submittal 15500-05-RevA Roof Top Units dated December 4, 2025.
The following data pertains to Section(s) 15500 of the Specifications.

Identification	Manufacturer	Description	Review Status: CODE 1 - NO EXCEPTIONS NOTED	CODE 2 - COMMENTS NOTED	CODE 3 - COMMENTS NOTED/CONFIRM	CODE 4 - COMMENTS NOTED/RESUBMIT	CODE 5 - REJECTED/RESUBMIT	CODE 6 - RECEPT ACKNOWLEDGED
Data	Airtech Corporation/Aaon	Roof Top Units - REVA			X			

Engineer's review of drawings and data submitted by Contractor covers only general conformity to the Drawings and Specifications, external connections and dimensions which affect the layout. Engineer's review does not indicate a thorough review of all dimensions, quantities, and details of the material equipment, devices, or item shown. Engineer's review shall not relieve Contractor of Contractor's responsibility for errors, omissions, or deviations in the drawings and data, nor of the Contractor's sole responsibility for compliance with the Contract Documents.

Remarks

1. Roof Top Units are specified under Division 15650, revise Crossland cover page submittal title and headings.
2. AAON is not a listed manufacturer in specification section 15650. To be considered as a substitute, submit additional information on construction materials / components to prove compliance with section 15650 – 2.05.A. Unit casing is required to be insulated. A factory disconnect is required. Confirm.
3. Contractor to confirm any increased MCA rating above listing on Contract Drawing H-3 has been coordinated with electrical trade and the respective power supply circuit.
4. Confirm the VFDs provided are corrosion resistant or have corrosion resistant enclosures.
5. Heresite coating information noted. Conformal coating for control panels, wiring connections and other sensitive electronics is also required by Schedule Note 2 on Contract Drawing H-3. Confirm this is provided.
6. Confirm all units are provided with a roof curb 16 inches in height as required by spec paragraph 2.05.A.13.e.

Structural Comments:

1. PAC A01 / PAC A02 / PAC J01 / PAC J02 / PHP L01: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/designer.
2. PHP L02: Contractor to coordinate exact location of openings with existing joists and framing members. Provide legible corner weights.
3. PHP L03: Approximate Op./Ship. Weights exceeds estimated weight, please confirm weight. Provide legible dimensions for supply and return openings. Contractor to coordinate exact location of openings with existing joists and framing members. Provide legible corner weights.
4. PHP M01: This unit is supported by a concrete slab and grade.

BLACK & VEATCH CORPORATION

Bridget Moore
Engineering Manager

By: Soukat Mattigar, Michele Roth, Craig Hardin

24A03SP - Bentonville WRRF Improvements

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(479) 464-7077

SPEC SECTION 15650

Title
15500 - Heating, Ventilating, and Air Conditioning : Product Information : Rooftop Units

Submittal Manager
Adrian Ensaldo

Spec Section
15500 - Heating, Ventilating, and Air Conditioning

Type
Product Information

Number
15500-5

Rev
A

Description

A. Drawings and Data 1. Complete assembly and installation drawings, and wiring and schematic diagrams, together with detailed specifications and data covering materials, parts, devices, and accessories forming a part of the equipment furnished, shall be submitted in accordance with the Submittals Procedures section. Device tag numbers indicated on the Drawings shall be referenced on the wiring and schematic diagrams where applicable. The data and specifications for each unit shall include, but shall not be limited to, the following: a. Makeup Air Units 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Input and output heating capacities 5) Filter velocities 6) Overall dimensions and required clearances 7) Net weight and load distribution 8) Performance curves with the specified operating point clearly identified for each unit, type, and model, with capacity in cubic feet per minute as the abscissa and brake horsepower, static pressure, and efficiency as the ordinate. The fan curves shall include a family of curves for at least 5 different rotative speeds on a single chart 9) Certified AMCA standard test code sound power output data for the fan outlet and casing when operating at the specified volume flow rate. Sound data shall list dB re 10-12 watts in each octave band, with midrange frequencies starting at 63 Hz and ending at 8,000 Hz 10) Multiline wiring diagrams clearly indicating factory installed and field installed wiring with all terminals identified 11) Electrical requirements including voltage, number of phases, and amperage 12) Where specified, information on equipment manufacturers' representatives b. Fans 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Overall dimensions and required clearances 5) Net weight and load distribution 6) Performance curves with the specified operating point clearly identified for each unit, type, and model, with capacity in cubic feet per minute as the abscissa and brake horsepower, static pressure, and efficiency as the ordinate. The fan curves shall include a family of curves for at least 3 different rotative speeds on a single chart 7) Certified AMCA standard test code sound power output data for the fan outlet and casing when operating at the specified volume flow rate. Sound data shall list dB re 10-12 watts in each octave band, with midrange frequencies starting at 63 Hz and ending at 8,000 Hz 8) Where specified, information on equipment manufacturers' representatives c. Equipment (not specifically listed) 1) Name of manufacturer 2) Type and model 3) Construction materials, thickness, and finishes 4) Manufacturer's performance data 5) Overall dimensions and required clearances 6) Net weight and load distribution 7) Wiring diagrams d. Sheet Metal Ductwork 1) Sheet metal duct fabrication drawings indicating dimensions of individual shop and field fabricated sections, top and/or bottom duct elevations, joint locations, and dimensions of duct from walls or column rows 2) Pressure and seal classifications 3) Reinforcement types and spacing 4) Joint and seam types 5) Hanger and support types, spacing, and attachment methods 6) Access panel and door construction, sizes, and locations 7) Duct sealant, adhesive, gasket, and tape information 8) Coatings 9) Ductwork materials and thicknesses 10) Product data demonstrating compliance with ASHRAE 62.1 e. Temperature Controls 1) Published descriptive data on each item of equipment and accessories, indicating all specific characteristics and options and identified with the designation used herein and on the Drawings. 2) Schematic control diagrams giving specific data on all settings, ranges, actions, adjustments, and normal positions. Although schematic, these diagrams shall, as closely as possible, represent the actual system with all significant equipment and devices identified and located relative to each other. These diagrams shall also show detailed multiline wiring with all terminals accurately identified. The wiring diagrams shall show the internal connections of the temperature control panels and all field wiring to equipment remote from the control panels, including wiring to Ownerfurnished

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Water Resource Recovery WRRF Facility
PRODUCT	Packaged Roof Top Units
MANUFACTURER	AAON
SPECIFICATION	15650
LOCATION	Springdale, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems
CONTRACTOR POC	
DATE	November 11, 2025
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

5440 Northshore Drive – North Little Rock, Arkansas 72118 – Tel: 501.374.5420 Fax: 501.370.9298

SUBMITTAL NOTES

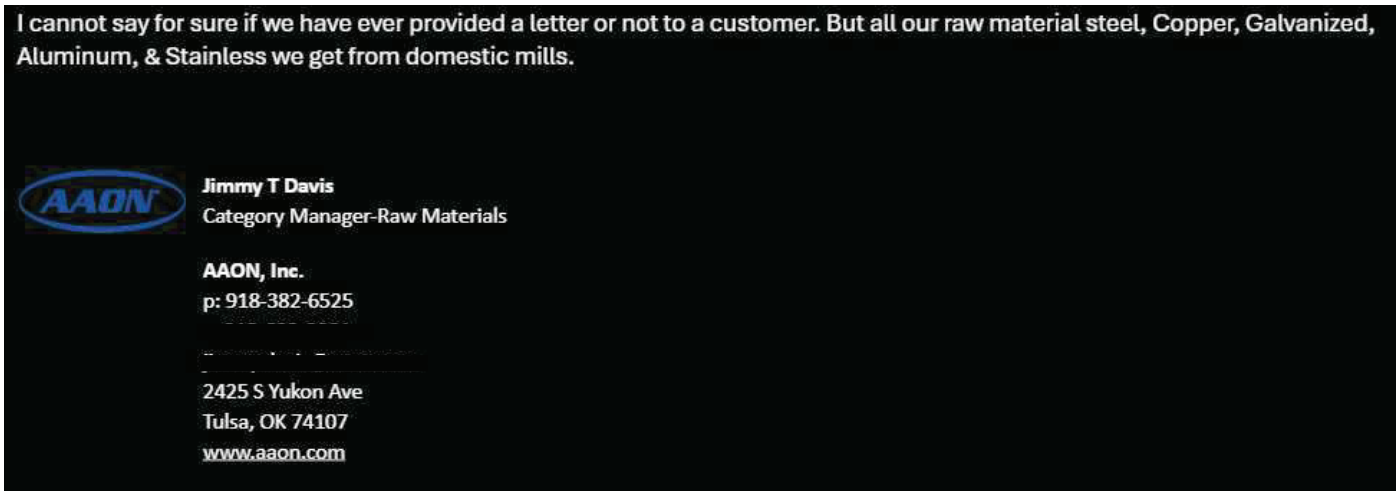
PAC_A01 & PAC_A02

Remarks

Building Mechanical Comments:
All Units: BLACK & VEATCH NOTES FROM SEPTEMBER 3, 20205

1. Roof Top Units are specified under Division 15650, revise submittal title and confirm compliance with 15650.
2. Contractor to confirm that materials comply with American Iron and Steel (AIS) requirements as indicated section 15650-1.02.
3. AAON is not a listed manufacturer in specification section 15650. To be considered as a substitute, submit additional information on construction materials / components to prove compliance with section 15650 – 2.05.A.
4. There is no digital Building Management Control system (BMS) on the project. Controls are hardwired and must be built-in or coordinated with the general HVAC controls supplier. Contractor to confirm that all controls, interlocks, and alarms as indicated in the Contract Drawing Sequence of Operation H-6 will be provided.
5. Confirm extra materials will be provided as indicated in specification section 15650-2.05.A.3.
6. Confirm coatings will be applied as required by the Packaged Air Conditioning/Heat Pump Schedule Notes on Contract Drawing H-3. Please provide coating information and chemical resistance charts.
7. Confirm the cooling capacities listed in the submittal account for coatings provided.
8. Confirm Modulating Hot Gas Reheat is included on all units.
9. Confirm economizers are provided with differential enthalpy plus fixed dry bulb control.
10. Confirm supply fans are direct drive and provided with VFDs.
11. Confirm all units with R454B refrigerant are provided with A2L leak detection, alarm, and refrigerant circuit shutdown capability. Contractor to coordinate leak detection unit operation with duty / standby controls where applicable.
12. Confirm all units are provided with a roof curb 16 inches in height as required by spec paragraph 2.05.A.13.e.

POWERS OF ARKANSAS -
RESUBMIT NOTES 11/10/2025:
1. REVISED SUBMITTAL PER SPEC SECTION 15650
2. REVISED SUBMITTAL AMERICAN IRON AND STEEL COMPLIANCE - SEE BELOW
3. REVISED SUBMITTAL PER SPEC SECTION 15650-2.05.A.
4. REVISED SUBMITTAL UNIT HAS FACTORY CONTROLLER - FIELD CONTROLS PER DRAWING H-6 PROVIDED BY OTHERS
5. REVISED SUBMITTAL INCLUDES SPEC SECTION 15650-2.05.A. ADDITIONAL ITEMS OIL & FILTERS - PAGE #9 F9A BELOW - [1] LUBRICATING OIL SHIPS LOSE
6. REVISED SUBMITTAL INCLUDES CORROSIVE COATING PER DRAWING NOTE H-3 SEE ATTACHED HERESITE AND SUBMITTAL CALL OUT ON PAGE #10 F.37 & PAGE #14 BELOW
7. REVISED SUBMITTAL CAPACITES ACCOUNT FOR COATINGS.
8. REVISED SUBMMITAL MHGRH CALLED OUT ON PAGE #10 F11A. BELOW
9. REVISED SUBMMITAL ECONOMIZER WITH DIFFERENTAL ENTHALPY AND SENSIBLE TEMP SENSOR CALLED OUT ON PAGE #9 F7 BELOW
10. REVISED SUBMMITAL DIRECT DRIVE FANS WITH VFD CALLED OUT ON PAGE #9 F3.4/F3.B/F3.C BELOW
11. REVISED SUBMMITAL A2L COMPLIANT SEE ON PAGE #11 BELOW



BLACK & VEATCH NOTES FROM SEPTEMBER 3, 2025

PAC-A01, A02

1. Latent capacity of 13.5 MBH is required as indicated in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Net sensible capacity of 106.5 MBH is required from calculations. Confirm these can be met and update gross total capacity.
2. MCA submitted is higher than scheduled. Electric heat kW is higher than required in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Contractor to coordinate any required changes with electrical at no additional cost to owner.
3. The unit weight is higher than indicated in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Contractor to coordinate any changes due to weight or different dimensions with the structural engineer at no additional cost to owner.
4. Unit submitted with two-step single compressor refrigerant circuit. Three stages of cooling are required in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Single compressor is not acceptable.

POWERS OF ARKANSA-
RESUBMIT NOTES 11/10/2025:

1. REVISED CAPACITY ON PAGE #5 BELOW
135.6 mbh total / 116.1 mbh sensible / 19.4 mbh VS. SCHEDULED 126 mbh total / 112.5 mbh sensible / 13.5 mbh
2. REVISED SUBMITTAL MCA 44 vs. SCHEDULED OF 40 - PAGE #5 BELOW
3. REVISED SUBMITTAL WEIGHT 2039lbs vs. SCHEDULED OF APPROX 1600lbs - PAGE #5 BELOW
4. REVISED SUBMITTAL HAS 5 STAGES OF COOLING - SEE PAGE #9 BELOW

Unit Rating

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Ecat Price Version: 361

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                                                A1 A2 A3 A4 A5  B1 B2 B3 B4 B5  1  2  3A 3B 3C 3D 3E  4A 4B 4C  5A 5B 5C 5D 5E  6A 6B 6C 6D 6E  7  8  9A 9B 9C
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Tag: PAC_ AO1 & PAC_A02

Job Information

Job Name:	*Bentonville WRRF*
Job Number:	*Bentonville WRRF*
Site Altitude:	*1266*
Refrigerant:	*R-454B*
Design System Charge (oz):	*176 / 334*

Unit Information

SCHEDULED WEIGH 1600

Approx. Op./Ship Weights:	*2039 lbs / 2039 lbs (±5%)*
Ambient Temperature (DB/WB):	*102.0 °F / 75.0 °F*
Coil Filter FV / Qty:	*302.4 fpm / 4*
Min. Room Area/Height/Airflow**:	*314 ft² / 7 ft / 565 SCFM*
Exhaust Airflow/ESP/TSP:	*4200 SCFM / 0.10 in. w.g. / 0.39 in. w.g.*
Outside Air Prefilter FV / Qty:	*117.7 fpm / 1*
Supply Airflow/ESP:	*4200 SCFM / 1.10 in. w.g.*
Outside Airflow:	*400 SCFM*
Return Airflow/ESP:	*4397 SCFM / 0.10 in. w.g.*
Return Temperature (DB/WB):	*76.8 °F / 61.0 °F*

Static Pressure

External:	*1.10 in. w.g.*
Cooling Coil:	*0.22 in. w.g.*
Filters Clean:	*0.11 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*
Reheat Coil:	*0.05 in. w.g.*

Economizer:	*0.28 in. w.g.*
Heater:	*0.02 in. w.g.*
Cabinet:	*0.23 in. w.g.*
Total:	*2.36 in. w.g.*

Cooling Section

SCHEDULED 126 mbh total / 112.5 mbh sensible / 13.5 mbh

	Gross	Net
Total Capacity:	*143.5 MBH*	*135.6 MBH*
Sensible Capacity:	*124.1 MBH*	*116.1 MBH*
Latent Capacity:	*19.4 MBH*	
Mixed Air Temp (DB/WB):	*79.2 °F / 62.5 °F*	
Entering Air Temp (DB/WB):	*79.2 °F / 62.5 °F*	
Lv Air Temp (Coil) (DB/WB):	*50.3 °F / 49.8 °F*	
Lv Air Temp (Unit) (DB/WB):	*52.1 °F / 50.5 °F*	

Heating Section

Preheat Type:	*Std (No Preheat)*
Auxiliary Heating Type:	*Electric Heat*
Heating Airflow:	*4200 SCFM*
Total Capacity:	*20.0 kW*
Entering Air Temp (DB/WB):	*66.7 °F / 58.6 °F*
Leaving Air Temp (DB/WB):	*82.2 °F / 64.0 °F*
Electric Heat FLA:	*24.1*

Supply Air Fan:	*1 x RN185 @ 2.79 BHP Ea.*
SA Fan RPM / Width:	*2039 RPM / 4.140 in*
SA Fan FEI:	*1.13*
Exhaust Air Fan:	*1 x RM12X9X2-RN @ 1.16 BHP Ea.*
EA Fan RPM / Width:	*833 RPM /*
EA Fan FEI:	*0.77*
Evaporator Coil:	*14.6 ft² / 4 Rows / 14 FPI*
Evaporator Face Velocity:	*288.0 fpm*

Re-heat Coil:

Capacity:	*88.7 MBH*
Leaving Air Temp (DB/WB):	*71.0 °F / 58.0 °F*
Relative Humidity:	*46.3%*

Rating Information

Listing Model	*RN-013-3-0-FAAY-S0-21-000-A*
Cooling Capacity:	*144.0 MBH*
Cooling EER:	*11.56 BTU/h·W*
Cooling IEER:	*15.88 BTU/h·W*

**Rated in accordance with AHRI Standard 340/360 (I-P)*

Application EER @ Op. Conditions: ***8.6 BTU/h·W***

Electrical Data

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Circuit 1

Rating:	*460V/3Ø/60Hz*	*Minimum Circuit Amp:*	*44* SCHEDULED MCA 40
Unit FLA:	*37*	*Maximum Overcurrent:*	*45*
SCCR:	*10 KAIC*		

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	2		460	3			9.5
Condenser Fan:	2	1.00	460	1	1100	3.6	
Supply Fan:	1	5.00	460	3	1760	7.6	
Exhaust Fan:	1	2.00	460	3	1760	3.4	

Cabinet Sound Power Levels*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW (dB):	89	88	90	88	80	77	75	69
Return LW (dB):	85	80	79	74	70	66	61	52

*Sound data is generated by a propriety acoustics model validated through unit testing in accordance with AHRI 260, utilizing tested fan sound data in accordance with AMCA 300.

The minimum floor area is based on the Lower Flammability Limit (LFL) and calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.

18.5" STAR Plenum

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Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PAC_ AO1*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*3000*
Diameter x Qty:	*18.5 in. x 1*
CFM:	*4200*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*4200*
Fan Energy Index (FEI):	*1.13*
Static Pressure:	*2.36 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*2.47 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*2.47 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*5 x 1 / No*
Frame Size:	*184T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*460V/3Ø/60Hz*
Enclosure Type:	*TEFC*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE:

RPM:	*2039*
BHP:	*2.79*
Efficiency:	*56.01%*
Max Duct SP with Blocked Airway:	*0 in. Wg @2039 RPM*

Max Duct SP with Blocked Airway:

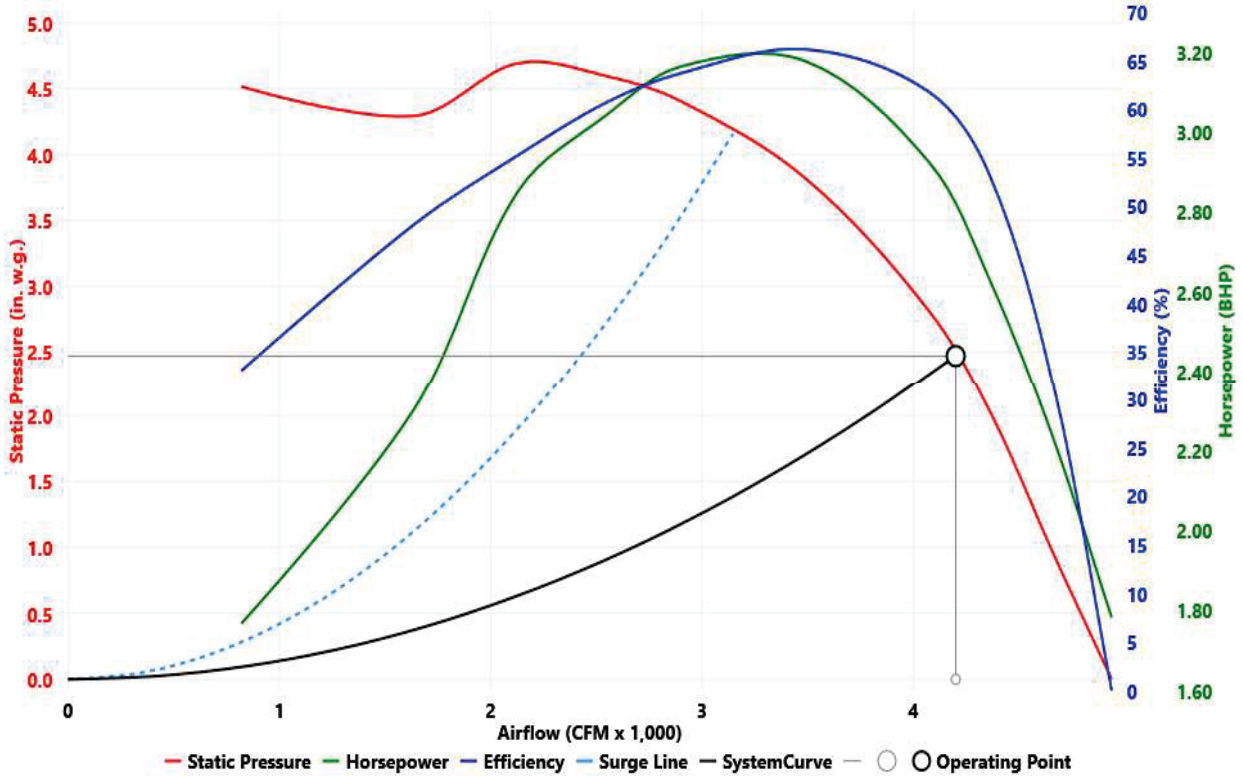
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
89	88	90	90	83	80	78	72
89	88	90	90	83	80	78	72

SOUND POWER A-Weighted: 91 dB

Supply Fan Model: RN185 @ 2039 RPM and 100% Width
Design Conditions: 4200 CFM @ 2.47 in. w.g. SP



Last Modified By:
Date Created/Modified:5/19/2025 6:29:39 PM Using Version:361.1

Date Printed:11/11/2025 11:53:13 AM

RM12X9X2 FC Fan

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Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PAC_AO1*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*1440*
Diameter x Qty:	*11 in. x 1*
CFM:	*4200*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*4200*
Fan Energy Index (FEI):	*0.77*
Static Pressure:	*0.39 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*0.41 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*0.41 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*2 x 1 / No*
Frame Size:	*145T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*460V/3Ø/60Hz*
Enclosure Type:	*TEFC*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE

RPM:	*833*
BHP:	*1.16*
Efficiency:	*22.26%*
Max Duct SP with Blocked Airway:	*0 in. Wg @833 RPM*

Max Duct SP with Blocked Airway:

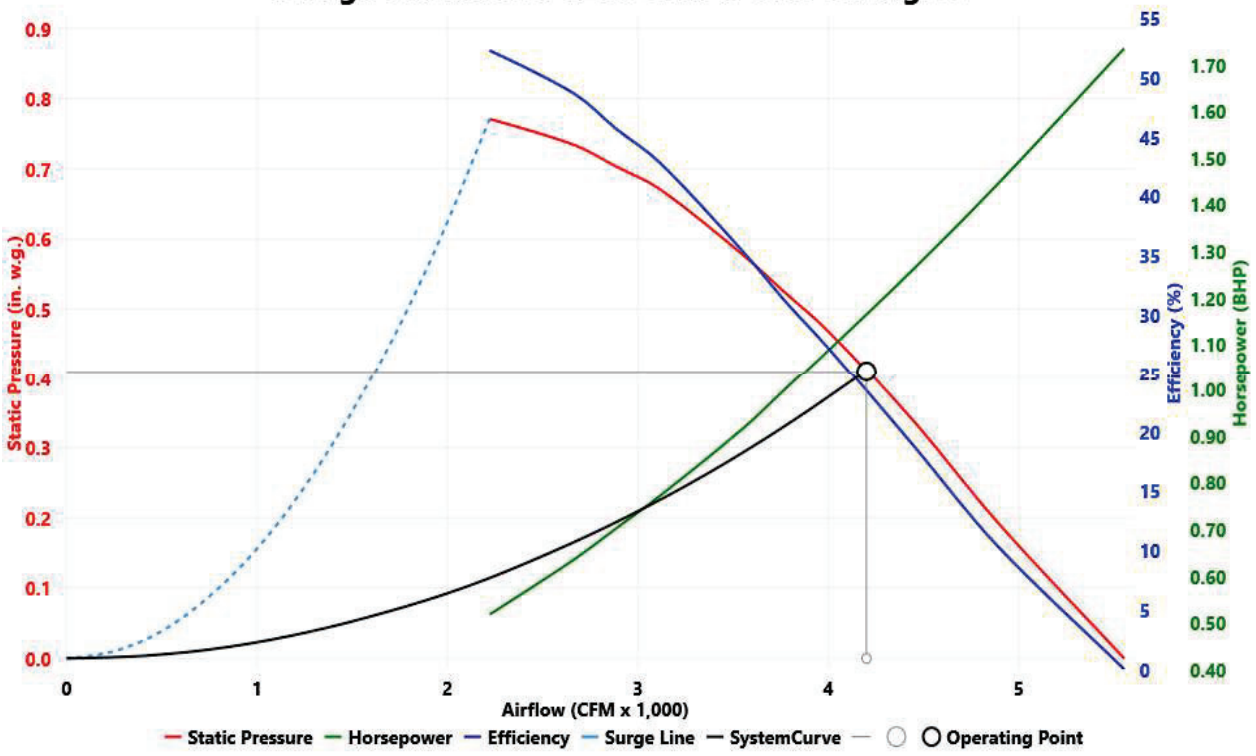
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
83	76	68	68	63	58	53	48

SOUND POWER A-Weighted: dB

Exhaust Fan Model: RM12X9X2 @ 833 RPM and 100% Width
Design Conditions: 4200 CFM @ 0.41 in. w.g. SP



Unit Submittal

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A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 1 2 3A 3B 3C 3D 3E 4A 4B 4C 5A 5B 5C 5D 5E 6A 6B 6C 6D 6E 7 8 9A 9B 9C

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Tag: *PAC_AO1*

Job Name: *Bentonville WRRF* **Unit Worksheet For:**

Job Number: *Bentonville WRRF* **Unit Worksheet Date:** *11/11/2025*

	Base Option	Description
RN	Generation	RN Series
A	Major Revision	Major Revision A
013	Unit Size	Thirteen
B	Series	B Series
A	Minor Revision	Minor Revision A
3	Voltage	460V/3φ/60Hz
F	Compressor Style	R-454B Two-Step Scroll Compressor
A	Condenser Style	Microchannel Air-Cooled Condenser
A	Indoor Coil Configuration	Standard Evaporator
T	Cooling Heat Exchanger Construction	Stainless Steel Evap. Coil Casing + Polymer E-Coated Evap. And Cond. Coils
5	Cooling Staging	5 Stage
A	Heat Type	Electric Heat (Vertical Unit Configuration)
0	Heat Construction	Standard
1	Heat Designation	20 kW
N	Heat Staging	Modulating SCR Electric - Temperature Control
0	Heat Pump Auxiliary Heating	No Auxiliary Heat

	Feature Option		Description
0	F1.	Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	F2.	Supply & Return Locations	Bottom Supply--Bottom Return
0	F3A.	Supply Fan Quantity	1 Fan
A	F3B.	Supply Fan Configuration	1 Fan per VFD + Full Width Fan
C	F3C.	Supply Fan Size	18.5" Direct Drive Backward Curved Aluminum
L	F3D.	Supply Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
H	F3E.	Supply Fan Motor Size	5 hp
G	F4A.	Outside Air Section	Economizer + Power Exhaust
0	F4B.	Energy Recovery Type	No Energy Recovery
0	F4C.	Energy Recovery Size	No Energy Recovery
0	F5A.	Return Fan Quantity	0 Return Fans
0	F5B.	Return Fan Configuration	No Return Fan
0	F5C.	Return Fan Size	No Return Fan
0	F5D.	Return Fan Motor Type	No Return Fan
0	F5E.	Return Fan Motor Size	No Return Fan
A	F6A.	Exhaust Fan Quantity	1 Fan
B	F6B.	Exhaust Fan Configuration	1 Fan per VFD + Full Width Fan
G	F6C.	Exhaust Fan Size	12x9 Forward Curved
M	F6D.	Exhaust Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
G	F6E.	Exhaust Fan Motor Size	2 hp
D	F7.	Outside Air Control	Fully Modulating Actuator - Dual Enthalpy Limit + Dry Bulb Temp Sensor
C	F8.	Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	F9A.	Unit Filter Type	2" Pleated - MERV 8 PLUS [2] EXTRA SET PER SPEC 15650-2.05.A.3.
0	F9B.	Unit Filter Size & Location	Standard Filters in Standard Position
0	F9C.	Final Filter Type	No Final Filters
A	F9D.	Filter Options	Clogged Filter Switch - Unit Filters
0	F10A.	Refrigeration Control A	Standard - Adj Comp. Cooling Lock Out Through Unit Controls

	Feature Option		Description
0	F10B.	Refrigeration Control B	Standard
Q	F11A.	Refrigeration Options	Modulating Hot gas Reheat [MHGR]-MC - Polymer E-Coated
0	F11B.	Refrigeration Options B	Standard Packaged Unit
0	F12.	Refrigeration Accessories	None
A	F13A.	Unit Disconnect Type	Single Point Power - Non-fused Disconnect Power Switch
N	F13B.	Disconnect 1 Size	100 Amps
0	F13C.	Disconnect 2 Size	Standard - None
E	F14.	Safety Options	Remote Safety Shutdown Terminals
B	F15.	Electrical Accessories	Phase & Brown Out Protection
D	F16A.	Control Sequence	VAV Unit Controller - VAV Cool + CAV Heat
A	F16B.	Control Supplier	AAON Controls
0	F16C.	Control Supplier Options	None
A	F16D.	BMS Connection & Diagnostics	BACnet IP or MSTP
0	F17A.	Preheat Configuration	Standard - None
0	F17B.	Preheat Sizing	Standard - None
0	F18A.	Option Box Location	None
0	F18B.	Option Box Size	None
0	F18C.	Option Box Accessories	None
B	F19.	Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20.	Cabinet Options	Standard - None
0	F21.	Accessories	Standard
B	F22.	Maintenance Accessories	Field Wired 115V Convenience Outlet
0	F23.	Code Options	Standard - ETL U.S.A. Listing
0	F24.	Shipping Splits	Standard
G	F25.	Air-Cooled Condenser Accessories	Cond Coil Guards + ECM Condenser Fan Head Pressure Control
0	F26.	Evap-Cooled Condenser Accessories	Standard
0	F27.	Water-Cooled Condenser Accessories	None
0	F28.	Energy Recovery Accessories	None
0	F29.	VFD Options	Standard
B	F30.	Miscellaneous Options	SCCR (10kA)
0	F31.	Blank	Standard
0	F32.	Blank	Standard
0	F33.	Blank	Standard
0	F34.	Blank	Standard
0	F35.	Warranty	Standard Warranty
0	F36.	Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
C	F37.	Specials & Paint	Premium AAON Gray Paint Exterior Paint + HERESITE P-413 Interior Corrosion Protection

Controller Components

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Ecat Price Version: 361

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                9D  10A 10B 11A 11B 12  13A 13B 13C 14 15  16A 16B 16C 16D 17A 17B 18A 18B 18C 19 20 21 22 23 24  25 26 27 28 29 30  31 32 33 34 35 36 37
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Tag: PAC_ AO1

Job Name:	Bentonville WRRF	For:	
Job Number:	Bentonville WRRF	Date:	November 11, 2025

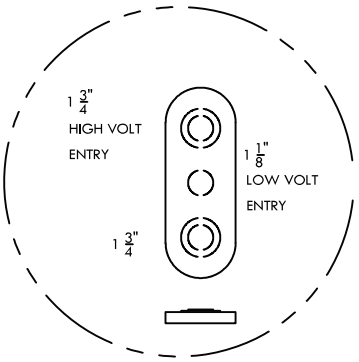
Part#	Included Parts	Assigned Channel	BACnet Point
ASM07503	VCCX-454 CONTROLLER		
ASM01692	OSA Temp/Hum Sensor	EBUS2 Communicating Sensor	AI:16,AI:17,AI:18,AI:19
R82890	Supply Temp Sensor - Field Installed	VCCX Control Point AI3	AI:9
ASM01820	Space Digital Temp/Hum Sensor	EBUS3 Communicating Sensor	AI:12,AI:13
R82890	Return Temp Sensor	VCCX Control Point AI4	AI:14
ASM01832	Building Pressure Sensor	VCCX Control Point AI5	AI:23
ASM01640	Duct Static Pressure Sensor	VCCX Control Point AI8	AI:21
	Supply Fan Control Signal 0-10VDC	VCCX Control Point AO1	AI:22
	Economizer	VCCX Control Point AO2	AI:30
	Modulated Heating (0-10VDC)	VCCX Control Point AO3	AI:35
	Building Pressure Control Signal	VCCX Control Point AO4	AI:24
R62330	Proof of Air Flow	VCCX Control Point BI1	BI:6, BI:24
G150620	Clogged Filter Switch (Standard Filters)	VCCX Control Point BI2	BI:25
	A2L Airstream Leak Detect Status	VCCX Control Point BI5	BI:9
	Safety Shut Down	VCCX Control Point BI8	BI:26
	Supply Fan	Configured Relay Point	BI:0
	Exhaust Fan	Configured Relay Point	BI:1
	Heat 1	Configured Relay Point	BI:2
	Morning Warm-Up	Configured Relay Point	BI:3
ASM07563	A2L MITIGATION BOARD 1		
G137750	Gas Sensor 1	A2L MB1 AI1	
	Supply Fan Proof of Flow	A2L MB1 BI1	
	Alarm Output	A2L MB1 Fixed RO3	
ASM07716	REFRIGERATION MODULE		
V38391	Suction Pressure Sensor A	RM454-D SP-1	AI:48
V38410	Discharge Pressure Sensor A	RM454-D HP-1	AI:50
V38391	Suction Pressure Sensor B	RM454-D SP-2	AI:73
V38410	Discharge Pressure Sensor B	RM454-D HP-2	AI:75
	Modulated Condenser Signal A	RM454-D AOUT1	AI:46
	Modulated Condenser Signal B	RM454-D AOUT2	AI:47
	Comp Status Input A	RM454-D BIN1	BI:77
	Comp Status Input B	RM454-D BIN2	BI:78
	Emergency Shutdown	RM454-D BIN4	BI:83
	Comp Enable A1	RM454-D RLY1	BI:84
	Comp Enable B1	RM454-D RLY2	BI:85
	Comp Load Signal A2	RM454-D COMP1	AI:44
	Comp Load Signal B2	RM454-D COMP2	AI:45
ASM01670	MODULATING HOT GAS REHEAT MODULE		
	Reheat HGR Valve	MHGRV-X	AI:42

RNB 9-15 TON
ECON, POWER EXHAUST

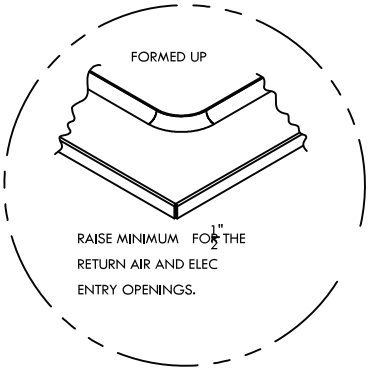
AAON ®

CLEARANCES

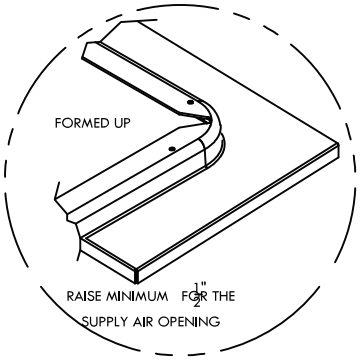
LOCATION	• UNIT SIZE • 9 - 15 TON
OUTSIDE AIR (BACK)	48
CONTROLS SIDE (FRONT)	48
LEFT SIDE	6
RIGHT SIDE	48
TOP	UNOBSTRUCTED



DETAIL A

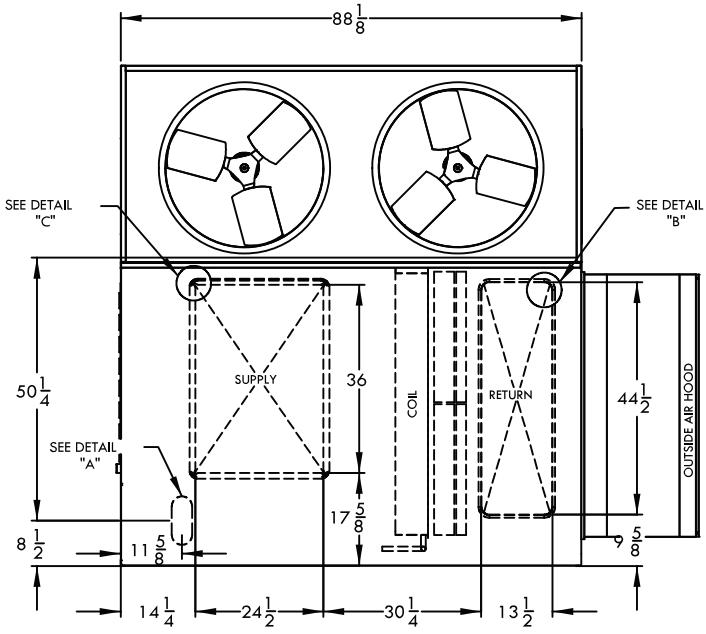


DETAIL B



DETAIL C

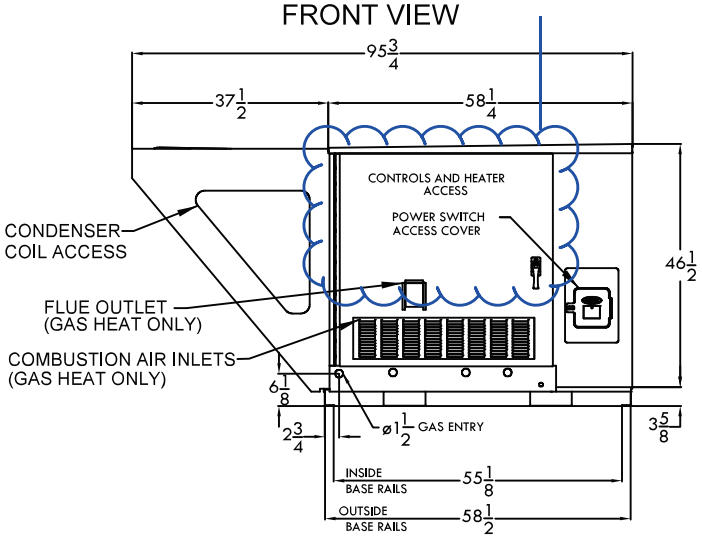
TOP VIEW

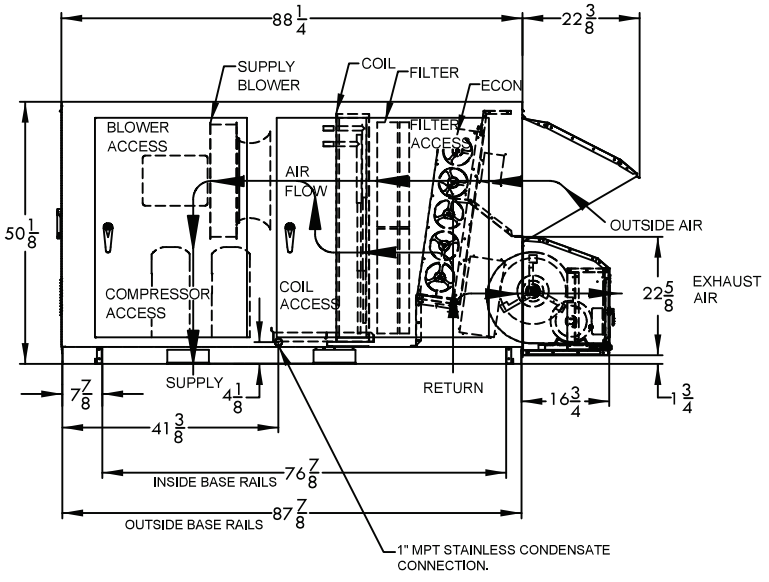


RIGHT SIDE VIEW

Sealed electrical cabinet

FRONT VIEW

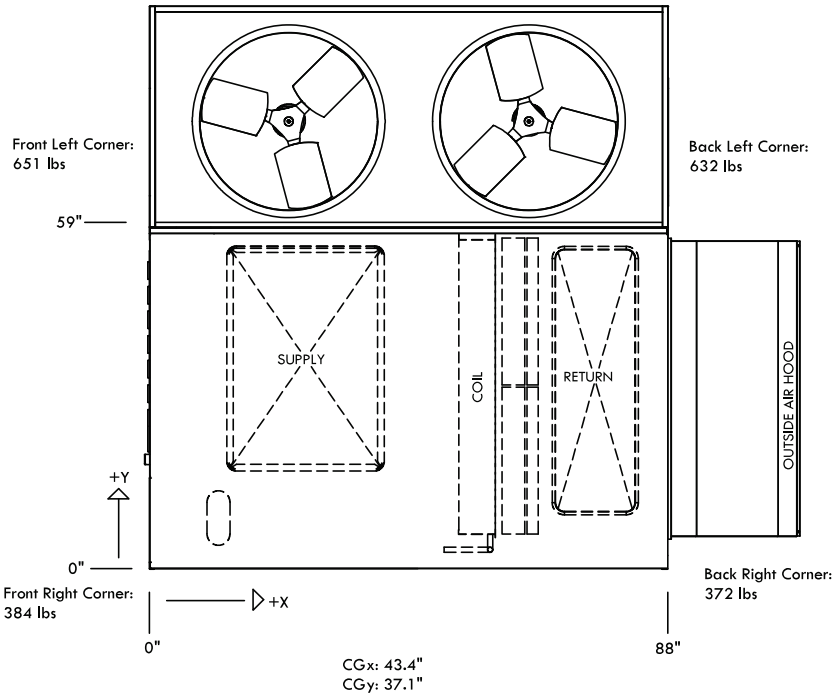




RNB-00003 REV:D 06/18/20 CAR
NOTE: ALL DIMENSIONS ARE IN INCHES

RNB CABINET
AIR COOLED CONDENSING UNIT
WITH POWER EXHAUST

RNA-013-B-A-3-FAAT5-A01N0:00-0ACLH-G00-00000-ABGMG-DC-000A-00-Q0-0-AN0-EB-DA0A-00-000-B00B00-G0000B-000000C



Disclaimer:
This weight estimate does not account for any SPAs.

Heresite P-413

Our 50 years of coating history speaks for itself.

In 1964, Heresite was the first company to apply coatings to aluminum-finned, copper-tubed heat exchangers. The Heresite coating became then, and still remains a standard in the industrial coatings industry. We provide the highest quality protective coatings for air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. Our phenolic epoxy has an advantage of dense cross linking and can therefore be applied as a very thin film maintaining stable heat transfer.

We continue our focus on innovation and again have a new story to tell, as we introduce our updated P-413

- A high performance phenolic epoxy coating developed specifically for heat exchangers.
- The flexibility and corrosion resistance of Heresite P-413 appreciably increases the service life of your heat exchange equipment.
- It is specially suited for coating light gauge metals in equipment operating in severe corrosive environments.

P-413 Specifications

The coil will receive a uniform coating on all surfaces, including fin edges, with P-413, a thermoset, modified phenolic coating. Application of P-413 will be through multiple coats by immersion or flow coating to a film thickness of approximately 1.0 mil.

P-413 provides corrosion protection in a 6,000 hour salt spray test in accordance with ASTM B-117 and humidity resistance of >2,000 hours per ASTM D2247. Chemical resistance is demonstrated via 100+ acetone double-rubs per ASTM 5402. P-413 also exhibits superior hardness of 5–6H per ASTM D3363, adhesion of 5B per ASTM B3359 and impact resistance of 160 in/lbs (ASTM D2794). Color shall be brown with gloss of 20–60 — 60 degree. If the coils are to be subjected to direct ultraviolet (UV) exposure, a spray-applied UV-resistant topcoat is an option.

Effective date: 10/09/17

P-413 Typical Properties (@ 1 mil DFT)

Salt Spray: ASTM B-117: 6,000+ hours

SWAAT: ASTM G85-11 Section A.3: Passed 1,000 hours using pressurized coil (see page 2 for results)

Cyclic Weathering: ISO 20340 Offshore Standard: Passed (4,200 hours)

Performance Testing: ISO 12944-6 C5 I/M: Passed C5-M high durability and C5-I high durability

Heat Transfer Reduction: <1% as applied for heat transfer components

Humidity: ASTM D-2247: 2,000+ hours

Simulated Sea Water Resistance: 2,000 hours

Solvent Resistance: ASTM-D5402: 100 acetone double rubs

Cross-hatch Adhesion: ASTM D-3359: 5B

Mandrel: ASTM-D522: >1/4 inch

Impact: ASTM D-2794: 160 lb/inch steel; 40 lb/inch aluminum

pH Range (14 day liquid spot test): 2.4–12.6

Temperature Cycling (4 hours at –75°C; 4 hours at 190°C): 4B–5B adhesion after 5 cycles

Dry Heat Resistance (4 hours at 200°C; 20 minutes at 232°C): 4B–5B adhesion after 5 cycles

Dry Film Thickness: ~1 mils

Hardness: ASTM D3363: 5–6H

Gloss: 20–60 on 60 degree meter (topcoat dependent)

Microchannel Compatible

Abrasion Resistance: 30–40 mg loss per 1,000 cycles

Meets FDA 175.300 for indirect food contact

Meets MIL Spec: MIL-C-18467, MIL-E-480 and MIL-STD-883 Method 1101

Meets Other Specs: Honeywell MC 7200-01 and GE F50T17

Thermal Conductivity: At approximately 2 mils thickness, Thermal Conductivity is less than 1.0 w/mK

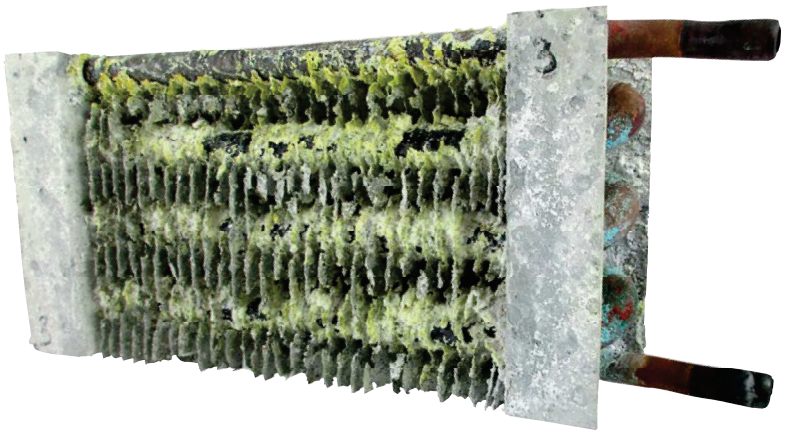
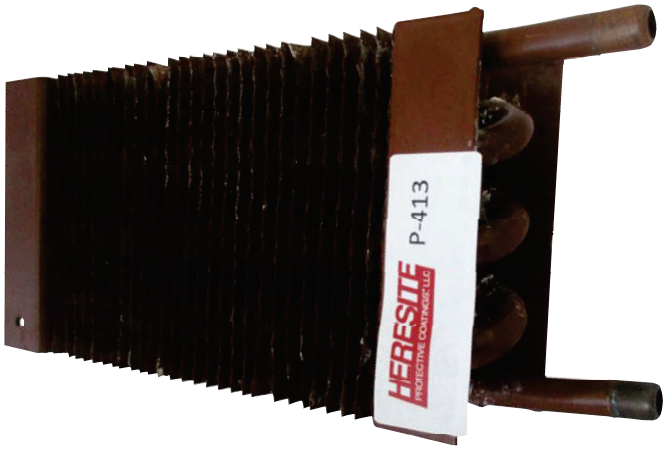
Dielectric Strength [ISO2376:2010(e)]: 286 volts per mil of thickness

NSF Certified – ANSI 51 Certification of Coatings for Food Zone – Non Contact

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HERESITE® PROTECTIVE COATINGS, LLC

SWAAT Results

	**Bare 1,000 hour SWAAT**
	**P-413 1,000 hour SWAAT**
	**P-413 + topcoat 1,000 hour SWAAT**

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Product Description
Baking cross-linked phenolic epoxy

Recommended Uses
Heresite P-413 is a high performance coating used principally for heat transfer components and parts — especially air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. This phenolic epoxy has an advantage of dense cross linking and are therefore highly corrosion resistant even when applied as a very thin film.

Chemical Resistance
P-413 is chemically resistant to a wide range of acids, solvents, and inorganic salts. Please review chemical resistance guide for further information.

Packaging Information
P-413 is available in one gallon, five gallon and 54 gallon drum quantities.

Thinners and Cleanup
Recommended use of Heresite S-275.

Storage Conditions
Coating should not be stored longer than 6 months. Coating should be stored in a clean, dry environment at 50–75°F. Keep out of direct sunlight. Avoid excessive heat and keep from freezing.

Physical Properties
Solids by weight: Approximately 73%

Solids by volume: Approximately 57%

Pot life: NA

Mixing Ratio by Volume: NA 1 component

Shelf life: 6 months

Color: Brown

VOC Content
2.25 lbs/gal (270 g/L) as supplied

Film Thickness
For heat transfer, a 2 coat immersion process will typically yield a dry film thickness of 1.0–2.0 mils (25–50 microns).

For other parts, please contact Heresite.

Coverage
Theoretical coverage is 800 square feet per gallon per dry mil. Coverage rates are estimates and make no allowance for material loss. Actual rates will vary dependent on application method, surfaces, etc.

Surface Preparation
All surfaces must be clean, sound, and free of any oils, dirt, grease, wax and any other contamination that may interfere with coating adhesion.

In general, the surface should be cleaned by solvent or a cleaner at elevated temperature followed by a clean water rinse. Rinse water shall have a conductivity of lower than 500 microsiemens and a neutral pH (7.0–8.0). All surfaces must be dried prior to application of coating.

In cases where there is a large amount of contamination or heat treated steel, a commercial blast is acceptable in accordance with NACE #3 or SSPC-SP-6-63 specifications. Surface profile or anchor pattern shall be 20–25% of the recommended dry film thickness.

Thinning
Reduce P-413 with S-275 solvent to 13–13.5 seconds on ISO Dip 3 mm Cup. This requires approximately a 1:1 dilution by volume.

The amount of thinner required is dependent upon temperature, ventilation, humidity, application type and desired film thickness.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Application

Application is specific to heat transfer components, for other parts — please contact Heresite.

Immersion Application:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Consult Heresite for tank and pump recommendations.
4. Ensure as the part is prepared for immersion, one will have a low point for drainage.
5. Immerse the cleaned part for 15 seconds in the reduced P-413.
6. Upon removal of the part from the coating, apply light air pressure (approximately 15 psi) using an Air Knife or similar device to spread the air flow. Using the compressed air, remove excess coating. Minimal brushing should be required.
7. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
8. Typically, a two coat immersion process is required to achieve 1.0 to 1.5 mil DFT. An intermediate bake is required between coats — see baking schedule.
9. It may be deemed desirable to apply a final aesthetic spray. This can be accomplished immediately after the final immersion is accomplished and prior to final bake.
10. During immersion application, the viscosity must be maintained and monitored. It is recommended that the viscosity be checked every hour to ensure compliance with the specification of 13–13.5 seconds. Additional solvent and coating can be added to adjust viscosity as needed.

Spray Application for Final Aesthetic Spray:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective.
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Typically, a one coat process is required to achieve 0.5 to 1.0 mil DFT.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Spray Application for Higher Film Build — 4–6 mil:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective (13.0–13.5 seconds ISO Dip 3 mm).
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film. Allow a minimum of 10 minutes to allow the slow solvents to evaporate. Then apply another 2–3 crisscross multi-passes.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Intermediate bake at 130°C (metal temperature) for a minimum of 10 minutes.
12. Repeat steps 7–10.
13. Final bake per the instructions within the bake schedule.
14. Typically, a two to three coat process is required to achieve 4.0 to 6.0 mil DFT.

Bake Schedule

Intermediate Bake:

1. 90°C (metal temperature) for a minimum of 10 minutes.
   a. To decrease the bake time, a maximum temperature of 130°C may be used.

Final Bake:

1. "Normal" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 15 minutes, then increased to 190°C. 190°C (metal temperature) held for 45 minutes.
2. "Soft Solder" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 130 minutes.

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKERS MUST WEAR FRESH AIR LINE RESPIRATORS. PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMERS SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESS OR IMPLIES, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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HERESITE® PROTECTIVE COATINGS, LLC

HERESITE

PROTECTIVE COATINGS®
LLC

Chemical Resistance Guide

Test data for the products published in this guide are determined by immersion of a coated panel in the chemical being tested. Additional information on the coating's resistance is achieved through the coating's history in actual service environments.

Temperature and concentration data are not necessarily the maximum operating conditions. They are the temperature and concentrations at which the specified coating system has been tested. The coating system may be suitable for higher temperatures and different concentrations but additional information or testing would be required.

Date: May 2019
(supersedes all previous copies)

To the best of our knowledge, the technical data contained herein is true and accurate at the date of insurance and are subject to change without prior notice. User must contact laboratory to verify corrections before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance, or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost are subject to change without prior notice. **NO OTHER GUARANTEE OF ANY KIND IS MADE BY SELLER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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HERESITE PROTECTIVE COATINGS, LLC

Key to the Guide

A	Coating is resistant, for continuous immersion, against attack from the chemical listed
B	Coating is resistant against attack from fumes of the chemical listed. For immersion service of the chemical please refer to a coating with an **A** or **LR** listed or contact Heresite Protective Coatings.
C	Coating will provide the necessary 72 hours resistance required for secondary containment. Coatings are not recommended for continuous immersion.
LR	Limited Recommendation, contact Heresite Protective Coatings, Inc. for assistance.
NR	Coating is not recommended for the service conditions.
Blank	Coating has insufficient test data for the service conditions.

Coatings are continuously being tested in a wide rage of service conditions. If you condition is not among the ones listed contact Heresite Protective Coatings at 920-684-6646 for assistance.

Coatings Included in This Guide

P-403L	High bake phenolic. P-403L offers excellent resistance to solvents, acids and salts, including 70-98% sulfuric acid at tmperatures up to 120F.
P-403L/L-66L	High gloss phenolic system designed for use when abrasion and release properties are required. This system utilizes P-403L as the primer and L-66L as the topcoat.
EP-6379	Baked epoxy phenolic. EP-6379 is resistant to a wide range of pH environments found in fume control devices, chemical, drill, process pipes and is also used in storage and ISO tanks.
P-413	Modified baked phenolic designed for HVAC equipment and light gauge metal. In addition to marine and salt air environments, the P-413 family of coatings will withstand exposure to an extensive variety of corrosive and chemical fumes and condensate.
VR-514	Air dry phenolic. Excellent for resistance to corrosive fume atmospheres and is particularly good in marine and salt air environments. Typical applications include swimming pools, waste water, marine environments and as a general maintenance coating.
UC-5500 Series	Polyurethane. Formulated as a top coat for other Heresite coatings with outstanding UV resistance with excellent weathering qualities, along with good flexibilit yand good abrasion resistance.

For further information, please contact Heresite Protective Coatings, Inc.

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HERESITE PROTECTIVE COATINGS, LLC

Chemical Synonyms

Common Name	Chemical Name
Alum	Aluminum Sulfate
Barite	Barium Sulfate
Baking Soda	Sodium Bicarbonate
Bleach	Sodium Hypochlorite
Calcite	Calcium Carbonate
Caustic	Sodium Hydroxide
Caustic Potash	Potassium Hydroxide
Chalk	Calcium Carbonate
Cupric, Cuprous	Copper II & Copper I
Dental Gas	Nitrogen I Oxide
Diuretic Salt	Potassium Acetate
Dry Ice	Carbon Dioxide
Epsom Salt	Magnesium Sulfate
Ferric, Ferrous	Iron III & Iron II
Graphite	Carbon

Common Name	Chemical Name
Laughing Gas	Nitrogen I Oxide
Lime	Calcium Oxide
Lye	Sodium Hydroxide
Magnesia	Magnesium Oxide
Methylene Bromide	Methane Dibromide
Methylene Chloride	Methane Dichloride
Muriatic Acid	Hydrochloric Acid
Potash	Potassium Carbonate
Phenol	Carbolic Acid
Phosgene	Carbonyl Chloride
Pyrite	Iron Disulfide
Soda Ash	Sodium Carbonate
Stannic, Stannous	Tin
Sulphate	Sulfate
Table Salt	Sodium Chloride

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Acetaldehyde		60ºF	A			B	NR
Acetaldehyde		100ºF	A			B	NR
Acetic Acid	5%	100ºF	LR			B	
Acetic Acid	10%	70ºF	LR	LR	B	B	NR
Acetic Acid	10%	100ºF	LR	LR	B	B	NR
Acetic Acid	10%	150ºF	B	B	B	B	NR
Acetic Acid	25%	70ºF	LR	LR	LR	B	NR
Acetic Acid	25%	150ºF	B	B	NR	B	NR
Acetic Acid	50%	100ºF	LR	LR	NR	B	NR
Acetic Acid	50%	120ºF	LR	NR	NR	B	NR
Acetic Acid	50%	150ºF	LR	NR	NR	B	NR
Acetic Acid	56%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	120ºF	B	B	NR	B	NR
Acetic Acid	100%	150ºF	B	B	NR	B	NR
Acetic Acid, Glacial		70ºF	B	B		B	
Acetic Acid, Vapors		350ºF	A	A			NR
Acetic Acid100% & ½% Sulfuric Acid		77ºF	B	B			
Acetic Anhydride	100%	70ºF	A	A		B	NR
Acetic Anhydride/ Acetic Acid (50%/50%)		175ºF		NR			
Acetone		70ºF	A	A	A	B	NR
Acetone		100ºF	A	A	B	B	NR
Acetone		134ºF	A	A	B	B	NR
Acetophenone		100ºF	A				
Acetylene		150ºF	A	A		B	B
Acid Copper Bath		150ºF				B	B
Acid-Klenz (Klenzode Products)		100ºF	A				
Acrylamide		100ºF	A				
Acrylic Latex 103-100		150ºF	A	A		B	
Acrylic Syrup		100ºF	A				
Acrylonitrile		70ºF	A	A		B	
Acrylonitrile		171ºF	A	A			
Activated Carbon, Slurry		70ºF	A				
Adipic Acid/Ethyl Alcohol 60%/40%		70ºF	A			B	
Agree® Shampoo	100%	150ºF	A	A	A		
Alcohol Mash (distillery)		210ºF	A	A		B	B
Alcolated Cresol		180ºF	A				
Alkaline Electrotinning		150ºF				B	B
Alkyl Benzene		100ºF	A			B	
Alkyl Chloroformate	100%	68ºF	A			B	
Alkylaryl Sulfonate	2%	70ºF	A	A			

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
Blank:Insuffient Data

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HERESITE PROTECTIVE COATINGS, LLC

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Alkylaryl Sulfonate	2%	100ºF	A	A			
Alkylaryl Sulfonate	100%	100ºF	A	A			
Alkylaryl Sulfonate	100%	151ºF	NR				NR
Allyl Alcohol		100ºF	A	A		B	
Allyl Chloride	100%	68ºF	A	A			
Allyl Gylcidyl Ether		70ºF	A				
Aluminum Acetate	5%	100ºF	A				
Aluminum Chloride	10%	150ºF	B	A		B	B
Aluminum Chloride	11%	120ºF	B	A		B	B
Aluminum Chloride	25%	150ºF				B	B
Aluminum Chloride	100%	70ºF	B	LR		B	B
Aluminum Chloride/Benzene	13%	70ºF	B				
Aluminum Chlorhydrate		120ºF	A	A	A	B	
Aluminum Fluoride	5%	100ºF				B	B
Aluminum Fluoride	5%	150ºF				B	B
Aluminum Nitrate	50%	70ºF	B			B	B
Aluminum Oxide (in Sulfuric Acid)		120ºF	A	A	A	B	
Aluminum Oxide (Trihydrate)		120ºF	A	A	A	B	
Aluminum Sulfate	46½%	70ºF	LR	A	A	B	B
Aluminum Sulfate	46½%	122ºF	LR	LR	A	B	B
Aluminum Sulfate	46½%	200ºF	LR			B	B
Aluminum Sulfate/Copper Sulfate		120ºF	LR	LR	A	B	
Ammonia	10%	100ºF	A			B	B
Ammonia	10%	113ºF	A			B	B
Ammonia, Aqua	29%	100ºF	A			B	NR
Ammonia, Aqua	34%	100ºF	A			B	NR
Ammonium Acetate	25%	150ºF	B	A		B	B
Ammonium Acetate	75%	200ºF		A			
Ammonium Bifluoride		140ºF	A				
Ammonium Carbonate	25%	70ºF	A				
Ammonium Chloride	33%	110ºF	A	A		B	B
Ammonium Diurinate		100ºF	A				
Ammonium Fluoride		150ºF					NR
Ammonium Hydroxide	5%	70ºF	A	A		B	NR
Ammonium Hydroxide	10%	100ºF	LR	LR	NR	B	NR
Ammonium Hydroxide	10%	150ºF	LR	LR	NR		NR
Ammonium Hydroxide	25%	70ºF	A		LR	B	NR
Ammonium Hydroxide	29%	70ºF	A	B		B	
Ammonium Hydroxide	29%	100ºF	A	NR	NR	B	NR
Ammonium Hydroxide	29%	120ºF	B	NR	NR	B	NR
Ammonium Hydroxide	30%	150ºF	B	NR	NR		NR

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Ammonium Lauryl Sulfate	100%	150ºF			NR		
Ammonium Nitrate	50%	70ºF	A	A		B	B
Ammonium Nitrate	50%	212ºF	A	A	B	B	B
Ammonium Nitrate/Urea 42%/32%		100ºF	A				
Ammonium Persulfate	45%	110ºF	B			B	B
Ammonium Phosphate, Monobasic	50%	70ºF	A			B	B
Ammonium Stearate		70ºF	A				
Ammonium Stymer Solution		70ºF	A				
Ammonium Sulfamate		70ºF	A	A			
Ammonium Sulfate, Liquid slurry		70ºF	A			B	B
Ammonium Sulfate, Liquid slurry		200ºF	A				
Ammonium Sulfate/Sodium Sulfate 6%/6%		150ºF	A				
Ammonium Sulfide	40%	100ºF	A		A	B	B
Ammonium Sulfite	50%	70ºF	A				
Ammonium Thiocyanate Solution		100ºF	A			B	B
Ammonium Thiosulfate	60%	100ºF	A	A			
Amyl Acetate	100%	70ºF	A	A		B	
Amyl Acetate	100%	100ºF	A	A	NR	B	B
Amyl Acetate	100%	150ºF	A	A	A	B	
Amyl Alcohol		70ºF	A	A	B	B	
Amyl Alcohol		150ºF	A	A		B	
Aniline		100ºF	A	A		B	B
Aniline Hydrochloride		150ºF				B	B
Aqualum (Altivia)		120ºF	LR	LR	A	B	
Aqua regia		70ºF	NR			NR	NR
Aqueous Ammonium Chloride17% & 4% MeOH		147ºF	A				
Arquad 2HT (Armour®) 75% Active		167ºF	A				
Arquad and Isopropyl Alcohol		158ºF	A				
Ascorbic Acid	10%	150ºF	A	A			
Arsenic Acid	50%	70ºF	LR				NR
Aviation Fuel		70ºF	A	A	A	B	
Boric Acid	100%	210ºF	B	A		B	B
Brake Fluid HD557		150ºF	A				
Brass Plating		150ºF					NR
Brine	6.7%	290ºF	A			B	B
Brine	12.3%	203ºF	A			B	B
Brine	12.3%	250ºF	A			B	B
Brine	29.2%	100ºF	A			B	B
Bromine	100ppm		B	B		B	
Bronze Plating		150ºF					NR
Butadiene		70°F	A			B	B

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Butadiene		150ºF	A			B	B
Butane		70ºF	A	A	A	B	B
Butane		150ºF	A	A	A	B	B
Butene		70ºF	A	A		B	
Butyl Acetate		70ºF	A	A	NR	B	NR
Butyl Acrylate		70ºF	A			B	
Butyl Alcohol	100%	150ºF	A	A	B	B	B
Butyl Cellosolve (Glycol Ether EB)		100ºF	A			B	
Butyl Phenol		210ºF	A				
Butylene		70ºF	A			B	B
1,3-Butylene Glycol		100ºF	A			B	
Butylene Oxide		100ºF	A				
Butyraldehyde	98%	70ºF	A			B	
Butyraldehyde	98%	150ºF	A			B	
Butyric Acid		70ºF	A				
Butyrolactone		70ºF	A	A		B	
Cadmium Cyanide		150ºF					B
Calcium Bisulfate		70ºF				B	B
Calcium Bisulfite		70ºF				B	B
Calcium Bromide	100%	150ºF	A	A	A	B	B
Calcium Carbonate	10%	150ºF	A	A		B	B
Calcium Carbonate	20%	200ºF	A				
Calcium Carbonate	100%	70ºF	A			B	B
Calcium Chloride	50%	70ºF	A	A		B	B
Calcium Chloride	70%	280ºF	A	A		B	B
Calcium Chloride	100%	150ºF	A	A		B	B
Calcium Cyanamide		70ºF	A			B	B
Calcium Cyanide		70ºF				B	B
Calcium Fluoride	25%	150ºF	A			B	
Calcium Hydroxide	50%	150ºF	A			B	B
Calcium Hypochlorite	30ppm	100ºF	A			NR	NR
Calcium Hypochlorite	5%	70ºF	NR			NR	NR
Calcium Lignosulfate	100%	150ºF	A		B		
Calcium Lignosulfate	100%	180ºF	A		NR		
Calcium Nitrate		150ºF				B	B
Calcium Sulfate		150ºF				B	B
Caprylic Acid	100%	70ºF	A	A	A	B	B
Caprylic Acid	100%	150ºF	A	A	B	B	
Caramel Color	100%	100ºF	A	A	A	B	B
Carbon Bisulfide		100ºF	A	A	A	B	NR
Carbon Dioxide		70ºF	A	A		B	B

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Carbon Monoxide		70ºF	A			B	B
Carbon Tetrachloride		70ºF	A	A		B	NR
Carmel		100ºF	A	A			
Casein		70ºF	A			B	B
Cashew Nut Oil		70ºF	A	A		B	B
Castor Oil		70ºF	A			B	B
CAT ® ELC (Extended Life Coolant) Concentrate CATEC-1	100%	70ºF				A	
Caustic Lime (Dehydrated)		150ºF				B	B
Caustic Potassium (Dehydrated)		150ºF				B	B
Cellosolve (Ethyleneglycol Ethylether)		100ºF	A	A		B	NR
Cherry Soda (Concentrate)		70ºF	A				
Chloric Acid	30%	100ºF	A		NR		
Chlorine, Fumes	100ppm	100ºF	B			B	LR
Chlorine, Water	0.40%	70ºF	B			B	LR
Chloral		150ºF	A				NR
Chloroaniline		70ºF	A				
Chlorobenzene (Anhydrous)		100ºF	A				
Chlorobenzene	10%	220ºF		A			
Chloroform	100%	70ºF	A	A		B	NR
Chloroform	100%	144ºF	A	A		B	NR
Chloropicrin		100ºF	A			B	B
Chlorosulfonic Acid	100%	70ºF	B	NR	NR		
Chlorotoluene		194ºF		A			
Chlorowax		100ºF	A				
Chlorox ® (See also Sodium Hypochlorite)	100%	70ºF	NR	NR	NR	NR	NR
Chocolate Syrup		70ºF	A			B	
Choline Chloride	70%	150ºF	A	A	A	B	NR
Chrome Plating Bath		150ºF					NR
Chromic Acid	10%	70ºF	B			B	B
Chromic Acid	20%	100ºF	A				
Chromic Acid	30%	70ºF	B			B	NR
Chromic Acid	50%	70ºF	B			B	NR
Citric Acid	25%	150ºF	LR	LR		B	B
Citric Acid	50%	70ºF	LR	LR		B	B
Citric Acid	50%	150ºF	LR	LR		B	B
Coal Tar		150ºF	A			B	NR
Cobalt Sulfate Solution	pH 6.0	170ºF	A				
Coca Cola Concentrate		70ºF	A	A	A		
Coconut Oil	100%	70ºF	A	A		B	B
Coconut Oil	100%	180ºF	A	A		B	B
Coke Oven Gas		150ºF	A	A		B	

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Collodion Solution		70ºF	A	A			NR
Copper Acetate	50%	70ºF	A			B	
Copper Chloride		70ºF	A			B	B
Copper Cyanide		70ºF	A			B	B
Copper Nitrate		70ºF				B	B
Copper Plating Solution		150ºF				B	B
Copper Sulfate	10%	100ºF	LR	A	B	B	B
Copper Sulfate	10%	120ºF	LR	A	B	B	B
Copper Sulfate	10%	150ºF	LR	B	B	B	B
Copper Sulfate	20%	100ºF	LR	A	A	B	B
Copper Sulfate	20%	120ºF	LR	A	A	B	B
Copper Sulfate	50%	100ºF	LR			B	B
Copper Sulfate	50%	150ºF	LR			B	B
Copper Sulfate (Anhydrous)	100%	140ºF	A	A			
Corn Mash		100ºF	A	A		B	B
Corn Oil (Mazola®)		70ºF	A			B	B
Corn Oil		180ºF	A			B	B
Corn Syrup	100%	70ºF	A	A	A	B	
Corn Syrup	100%	150ºF	A	A	A	B	
Cottonseed Oil		150ºF	A			B	B
Creosote		150ºF	A	A		B	NR
Cresol	100%	150ºF	A	A		B	NR
Crotonaldehyde	100%	70ºF	A			B	
Crude Oil		150ºF	A			B	B
Crude Oil @ 650PSI		200ºF	A			B	
Cyanide Cadmium Bath		100ºF				B	B
Cyanide Plating		100ºF				B	B
Cyanide Zinc		100ºF				B	B
Cyclobutane		55ºF	A			B	B
Cyclohexane		70ºF	A			B	B
Cyclohexanone		100ºF	A			B	NR
Cyclohexene		70ºF	A			B	B
Cyclopropane		70ºF	A			B	B
Dawn® Dish Soap	100%	150ºF	A				
Decon-Clean®	100%	70ºF				A	B
Decon-Quat®	100%	70ºF				A	B
Decyl Alcohol		70ºF	A			B	B
Dextrose		150ºF	A	A		B	B
Diacetone Alcohol	100%	70ºF	A	A	A	B	B
Diacetone Alcohol	100%	100ºF	A	A	A	B	B
Diacetone Alcohol	100%	120ºF	A	A	A	B	B

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Diacetone Alcohol	100%	131ºF	A	A	A	B	B
Diallyl Amine		70ºF	A				
Dibutyl Maleate		70ºF		A			
Dibutylphthalate		70ºF	A			B	
Dichloroacetic Acid	25%	70ºF		A			
O-Dichlorobenzene		100ºF	A			B	
Diesel Fuel	100%	60ºF	A	A	A	B	B
Diesel Fuel	100%	120ºF	A	A	A	B	B
Diethanolamine	100%	125ºF	A				
Diethanolamine	100%	150ºF	LR				
Diethanolamine	100%	350ºF	NR				
Diethyl Phthalate	100%	176ºF	A				
Diethyl Sulfate		100ºF	A				
Diethylene Glycol	50%	70ºF	A			B	
Diethylene Glycol	100%	100ºF	A			B	
Diethylene Glycol Monobutyl Ether (Glycol Ether DB)		100ºF	A			B	
Diethylenetriamine		70ºF	A	A			
Difluorophosphoric Acid		70ºF	NR				
Dihydrogenated Tallow Dimethylammonium Chloride		167ºF	A				
Dimethyl Ethanolamine (tech grade)		70ºF	A				
Dimethyl Phthalate		70ºF	A			B	B
Dimethyl Propane		70ºF	A			B	
Dimethyl Sulfoxide (DMSO)		70ºF	A				
Dimethyl Sulfoxide (DMSO)		302ºF	NR				
Dimethylamine		100ºF	A				NR
Dimethylamine (Anhydrous)		100ºF	A				NR
Dimethylformamide		70ºF	A				
Dioctyl Adipate		100ºF	A				
Dioctyl Phthlate Monomeric		100ºF	A	A			
Dioctyl Phthlate Monomeric		140ºF	A	A			
Diphenol Amine		150ºF	A				
Dipropylene Glycol	5%	100ºF	A	A		B	
Dipropylene Glycol	100%	150ºF	A	A		B	
Dipropylene Glycol Monomethyl ether (DPM)		100ºF	A	A		B	
Disodium Phosphate	5%	70ºF	A	A			B
Dodecylbenzene Sulfonate		125ºF	A			B	B
Dodecylbenzene Sulfonate (Anhydrous)		125ºF	A				
Dolchem®	100%	150ºF	A				
Dow® heavy duty oven cleaner	100%	70ºF	LR	NR	A		
Dow® heavy duty oven cleaner	100%	100ºF	NR	NR	B		
Dowtherm		70ºF				B	B

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Emulsion asphalt	100%	70ºF					NR
Epichlorohydrin		100ºF	A				
Ethane	100%	70ºF	A	A		B	B
Ethanol Amine		70ºF		A			
Ethyl Acetate	100%	100ºF	A	A	A	B	NR
Ethyl Acetate	100%	120ºF	A	A	A	B	NR
Ethyl Acetate	100%	150ºF	A	A	A	B	NR
Ethyl Acetate	100%	171ºF	A	A		B	NR
Ethyl Acetoacetate		70ºF	A	A			
Ethyl Acrylate		70ºF	A			B	
Ethyl Alcohol (Ethanol)	50%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	50%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	77%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	95%	70ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	150ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	97%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	100%	173ºF	A	A		B	B
Ethyl Amide	70%	70ºF	A				NR
Ethyl Amide (Anhydrous)	100%	70ºF	A				NR
Ethyl Chloride	100%	70ºF	A	A		B	
Ethyl Chloride	100%	150ºF	A	A		B	
Ethyl Ether (fumes)		70ºF	A			B	NR
Ethyl Ether (fumes)		94ºF	A			B	NR
2-Ethyl Hexacrylate		100ºF	A			B	B
2-Ethyl Hexenol		100ºF	A			B	
Ethyl Silicate Conc.		100ºF	A				
Ethylene Bromide	100%	176ºF	A			B	
Ethylene Chloride		100ºF	A	A		B	
Ethylene Chlorohydrin		100ºF	A	A		B	
Ethylene Chlorohydrin	100%	194ºF		A			
Ethylenediamine		70ºF	A	A			
Ethylenediaminetetracetic Acid (EDTA)	40%	70ºF	A				
Ethylene Dichloride		100ºF	A			B	
Ethylene Glycol	100%	70ºF	A	A	A	B	B
Ethylene Glycol	100%	120ºF	A	A	A	B	B
Ethylene Glycol	100%	150ºF	A	A		B	B
Ethylene Glycol Monomethyl Ether Acetate		100ºF	A			B	
Ethylene Oxide		100ºF	A				NR
Fatty Acid (Coconut)		180ºF	A			B	B
Fatty Acid (Cotton)		180ºF	A			B	B

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Fatty Acid (Oleic)		180ºF	A			B	B
Fatty Acid (Soya)		180ºF	A			B	B
Ferric Ammonium Citrate Solution		100ºF	A				
Ferric Chloride	10%	150ºF	A	A	A	B	B
Ferric Chloride	50%	70ºF	A	A	A	B	B
Ferric Chloride	50%	150ºF	A	A	A	B	B
Ferric Nitrate		150ºF				B	B
Ferric Sulfate		150ºF	A				B
Ferrous Sulfate	10%	150ºF	A	A		B	B
Ferrous Sulfate	25%	150ºF				B	B
Ferrous Sulfide	10%	150ºF	A	A			
Ferrous Sulfate/Hydrochloric Acid 50%/20%		100ºF	B				
Finesse® Shampoo	100%	150ºF	A	A	A		
Fish Oil		180ºF	A			B	B
Floorstar® TFRII	Conc.	150ºF	NR	NR	NR		
Fluosilic Acid		150ºF					NR
Formaldehyde	0.17%	150ºF	A			B	B
Formaldehyde & Methyl Alcohol (37%-7%)		70ºF	A	A	A	B	B
Formaldehyde & Methyl Alcohol (37%-7%)		150ºF	A	A	B	B	B
Formaldehyde (unstabalized)	44%	130ºF	A			B	B
Formaldehyde	50%	150ºF	A		B	B	B
Formic Acid	10%	70ºF	LR	LR		B	NR
Formic Acid	10%	150ºF	LR				NR
Formic Acid	90%	100ºF	NR				NR
Formic Acid	100%	70ºF	B			B	NR
Formic Acid	100%	125ºF	NR				NR
Freon		100ºF	A	A		B	NR
Fruit Juice		100ºF	A	A		B	B
Fuel Oil		100ºF	A	A		B	B
Fumaric Acid	10%	212ºF	A	A			
Furan		90ºF	A			B	
Furfuryl Alcohol		70ºF	A	A	A	B	
Furfurylamine		70ºF	A				
Gallic Acid		100ºF				B	B
Gasoline, Aviation		70ºF	A	A	A	B	B
Gasoline, Leaded		100ºF	A	A	A	B	B
Gasoline, Unleaded	100%	70ºF	A	A	A	B	B
Gasoline, Unleaded	100%	150ºF	A	A	A	B	B
Gasoline, White		70ºF	A	A	A	B	B
Gelatin		100ºF	A	A		B	B
Gluconic Acid	50%	100ºF	A				

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Glucose		70ºF	A			B	B
Glycidyl Phenylether		70ºF	A			B	
Glycerine		70ºF	A			B	B
Glycerine		200ºF	A			B	B
Glycolic Acid (Hydroxyacetic Acid)	70%	140ºF	A				
Glycols	30%	70ºF	A			B	B
Green Liquor		150ºF	LR			B	B
Heptane		100ºF	A	A		B	B
Heptanoic Acid		70ºF	A				
Hevea® Latex Type k5		70ºF	A			B	B
Hexane		150ºF	A	A			B
Hexane		350ºF	A	A			
1,6-Hexandiol		150ºF	A	A	A	B	B
Hexametaphosphate		100ºF	A				
Hexamethylenetetramine		150ºF	A	A	B		NR
Hilex® Bleach (See Sodium Hypochlorite)		70ºF	NR			NR	NR
Hydraulic Fluid (Houghtosafe 1120)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 56/60)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 620)		140ºF	A			B	
Hydraulic Fluid (skybtul)		50ºF	A			B	
Hydraulic Fluid (skybtul)		150ºF	A			B	
Hydrazine		100ºF	B			NR	
Hydrobromic Acid	2½%	70ºF	B	B	B	B	NR
Hydrobromic Acid	5%	70ºF	B	B	B	B	NR
Hydrobromic Acid	10%	150ºF	B	B	B	B	NR
Hydrobromic Acid	12½%	70ºF	B	B	LR	B	NR
Hydrobromic Acid	15%	70ºF	NR	LR	LR	B	NR
Hydrobromic Acid	20%	70ºF	NR				NR
Hydrobromic Acid	25%	70ºF	NR				NR
Hydrobromic Acid	30%	150ºF	NR			NR	NR
Hydrobromic Acid	48%	150ºF	NR	NR	NR	NR	NR
Hydrochloric Acid	2½%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	5%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	10%	70ºF	B	B		B	B
Hydrochloric Acid	10%	100ºF	B	B	B	B	B
Hydrochloric Acid	10%	150ºF	NR				B
Hydrochloric Acid	12½%	70ºF				B	B
Hydrochloric Acid	15%	70ºF				B	B
Hydrochloric Acid	20%	70ºF	B			B	B
Hydrochloric Acid	20%	100ºF	B			B	B
Hydrochloric Acid	20%	185ºF	NR				NR

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HERESITE PROTECTIVE COATINGS, LLC

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Hydrochloric Acid	30%	100ºF	B			NR	B
Hydrochloric Acid	30%	150ºF	NR				NR
Hydrochloric Acid	37%	70ºF					NR
Hydrochloric Acid	37%	150ºF	NR		NR		NR
Hydrocyanic Acid		100ºF					B
Hydrofluoric Acid	2%	70ºF				B	
Hydrofluoric Acid	10%	70ºF	NR				NR
Hydrofluoric, Vapors		212ºF	NR				NR
Hydrofluorosilic Acid	29%	100ºF	B				NR
Hydrogen Gas		70ºF	A	A		B	B
Hydrogen Gas		350ºF		A			
Hydrogen Peroxide	1%	70ºF				B	
Hydrogen Peroxide	30%	374ºF		B		NR	NR
Hydrogen Peroxide	90%	150ºF	NR	NR		NR	NR
Hydrogen Sulfide	3%	70ºF	A		NR	B	B
Hydrogen Sulfide	5%	210ºF	A		NR		
Hydroquinone		70ºF	A				
Hydroxyacetic Acid		77ºF	A	A			
Hydroxyacetic Acid		100ºF	A				
Hypochloric Acid		70ºF	NR			NR	NR
Hyposulfite		100ºF				B	B
Ink		100ºF	A	A		B	B
Insecticide Bidrin 8 (Amvac)	Conc.	70ºF	A		A		
Insecticide CDMAA (Amvac)	Conc.	70ºF	A	A	A		
Insecticide Naled (Amvac)	Conc.	70ºF	A	A	NR		
Insecticide Nifs T (Monsanto)		100ºF	A				
Iodine		75ºF	A			B	
Iron Pickle Liquor		150ºF				B	B
Iron Sulfate		100ºF	A	A		B	B
Iso-par (Isoparaffinic material)		140ºF	A				
Isobutane		70ºF	A			B	B
Isobutylaldehyde		70ºF	A			B	
Isobutyl Alcohol		70ºF	A			B	B
Isobutyl Alcohol/Formaldehyde 60%/40%		100ºF	A				
Isooctyl Alcohol		70ºF	A			B	B
Isophorone		70ºF	A			B	
Isopropyl Alcohol		70ºF	A	A		B	B
Isopropyl Alcohol		150ºF	A	A	A	B	B
Isopropyl Acetate		70ºF	A	A		B	
Isopropyl Acetate		200ºF	A	A			
Jet Fuel		70ºF	A	A		B	B

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Jet Fuel		100ºF	A	A		B	B
Jet Fuel JP-5		120ºF	A	A		B	B
Joy® Dish Soap		150ºF	A		A		
Kaboom®		120ºF	LR	LR	A	B	
Karo Syrup		70ºF	A	A	A	B	B
Kelvar		140ºF	A				
Kerosene		100ºF	A	A		B	B
Kopper Star Distillate		140ºF	A				
Lacquor		100ºF	A			B	NR
Lacquor Solvent		100ºF	A			B	NR
Lactic Acid	10%	140ºF	LR	LR		B	B
Lactic Acid	22%	100ºF	A				
Lactic Acid	100%	100ºF	A	A		B	B
Lanoline® Lotion Shampoo Concentrate		70ºF	A				
Lard		70ºF	A				
Latex		100ºF	A			B	B
Latex #512K (Dow®)		70ºF	A			B	B
Latex GR-S Type 3		77ºF	A	A		B	B
Latex Rubber		70ºF	A			B	B
Leachate Solution (Sour Water)		150ºF					
Lead Acetate	10%	150ºF	A	A		B	
Levulinic Acid		77ºF	A				
Lignin Sulfate		100ºF	A				
Lime (Chopped)		100ºF	A				
Linoleic Acid		100ºF	A			B	B
Lithium Chloride		70ºF	LR			B	B
LP Gas		100ºF	A	A		B	
LpHst (Steris product)	100%	70ºF				A	
LpHst (Steris product)	0.01%	70ºF				A	
Lube Oil (Pennzoil 10W30)		150ºF	A	A	A	B	B
Lubricating Oil		70ºF	A	A	A	B	B
Lubricating Oil		182ºF	A	A		B	B
Lysol®		70ºF	A				
Magnesium Carbonate		150ºF	A			B	B
Magnesium Chlorate		150ºF				B	B
Magnesium Chloride	40%	100ºF	A	A		B	B
Magnesium Chloride	5%	70ºF				A	
Magnesium Chloride	50%	70ºF	A			B	B
Magnesium Hydroxide Slurry		150ºF	A		A	B	B
Magnesium Nitrate		150ºF				B	B
Magnesium Oxide	20%	70ºF	A			B	B

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Magnesium Sulfate		100ºF	A			B	B
Magnesium Sulfate		150ºF	A			B	B
Maleic Acid	50%	70ºF	A			B	B
Maleic Anhydride		100ºF	A				
Maleic Anhydride		250ºF	A				
Malic Acid		100ºF	LR			B	B
Manganese Ammonium Sulfate		100ºF				B	B
Manganese Chloride		100ºF	A	A		B	B
Manganese Sulfate		150ºF	A			B	B
Martan B® liquid (Marathon Oil)		100ºF	A				
Mayonnaise		150ºF	A		A		
MEK Peroxide (45% in Dimethyl Phthalate)		70ºF	A	B	NR	B	NR
Melamine		70ºF	NR	NR			
Melamine Resin Solution		100ºF	A			B	B
Mercuric Chloride		100ºF	A	A		B	B
Methyl Acetate	96%	100ºF	A			B	NR
Methyl Acrylate		100ºF	A	A		B	
Methyl Alcohol	100%	70ºF	A	A	A	B	B
Methyl Alcohol	100%	120ºF	A	A	A	B	B
Methyl Alcohol	100%	148ºF	A	A	B	B	B
Methyl Butane		100ºF	A			B	B
Methyl Cellosolve (Glycol EM)		70ºF	A	A	B	B	
Methyl Cellosolve (Glycol EM)		120ºF	A	A	B	B	NR
Methyl Chloride		100ºF	A			B	NR
Methyl Chloride		150ºF	A			B	NR
Methyl Ether		50ºF	A			B	NR
Methyl Ethyl Ketone	100%	100ºF	A	A	B	B	NR
Methyl Ethyl Ketone	100%	150ºF	A	A		B	NR
Methyl Fluoride		150ºF	A			B	NR
Methyl Isobutyl Carbinol		70ºF	A			B	
Methyl Isobutyl Ketone (MIBK)		70ºF	A	A		B	NR
Methyl Mercaptan		70ºF	A				
Methyl Methacrylate		100ºF	A	A	NR	B	
Methyl Propane		70ºF	A			B	B
Methylene Bromide		100ºF	A	A			
Methylene Chloride	100%	77ºF	A	A		B	NR
Methylene Chloride	100%	100ºF	A	A		B	NR
Methylene Chloride	100%	113ºF	A	A		B	NR
Methylene Chlorobromide		70ºF	A			B	NR
Methylene Diisocyanate		100ºF	A				
n-Methylpyrolidone	100%	275ºF	A			B	

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Milk (condensed)		70ºF	A			B	B
Milk (whey)		150ºF	A			B	B
Mineral Oil		70ºF	A	A		B	B
Mineral Spirits		150ºF	A	A	A	B	B
Molasses	100%	70ºF	A	A		B	B
Molasses		110ºF	A	A		B	B
Monochloroacetic Acid		100ºF	A				
Monochloropinacolone (MCP)		75ºF	A				
Monochloropinacolone (MCP)		100ºF	A				
Monoethanolamine		100ºF	NR				NR
Monofluorophosphoric Acid		70ºF	B	B			NR
Morpholine		150ºF	A				
Mustard		150ºF	A		NR		
Nalco ® 2000 / Nalcool 2000 / Nalfleet 2000	100%	70ºF				A	
Naphthalene (sulfonated)		150ºF	A			B	B
Naphtha		150ºF	A	A	A	B	B
Naphthenic Acid		100ºF	A	A		B	B
Naphthenic Acid	95%	180ºF	A	A			
1-Naphthol-4-Sulfonic Acid	7.5-8.0pH	158ºF	A			B	B
Natural Gas		100ºF	A			B	B
Neatsfoot Oil		150ºF	A	A		B	B
Neatsfoot Oil		250ºF	A	A		B	B
Nickel Acetate	50%	70ºF	A			B	B
Nickel Chloride	50%	70ºF	A			B	B
Nickel Nitrate		150ºF				B	B
Nickel Plating Solution (electroless)		212ºF	B	A			
Nickel Plating Solution		374ºF	B		B	B	B
Nickel Salts		150ºF				B	B
Nickel Sulfate		150ºF				B	B
Nitric Acid	1%	70ºF	LR	A	B	B	NR
Nitric Acid	2%	185ºF	LR		B		NR
Nitric Acid	5%	70ºF	LR	LR	LR	B	
Nitric Acid	5%	120ºF	LR	B	B		NR
Nitric Acid	10%	100ºF			NR	B	NR
Nitric Acid	10%	140ºF	NR	NR	NR	B	NR
Nitric Acid	10%	150ºF	NR	NR	NR	B	NR
Nitric Acid	10%	185ºF	NR	NR	NR		NR
Nitric Acid	15%	150ºF	NR	NR	NR		NR
Nitric Acid	25%	70ºF	B			B	NR
Nitric Acid	25%	100ºF	NR	NR	NR		NR
Nitric Acid	25%	150ºF	NR	NR	NR		NR

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Nitric Acid	50%	100ºF	NR	NR	NR		NR
Nitric Acid	70%	100ºF	NR	NR	NR		NR
Nitrobenzene		100ºF	A	A		B	NR
Nitrobenzenesulfonic Acid		100ºF	A	A			
o-Nitrochlorobenzene		180ºF	A			B	
p-Nitrochlorobenzene		100ºF	A			B	B
Nitrogen		100ºF	A	A		B	B
Nitrogen		300ºF	A	A			
Nitrophenol		250ºF	A	A	NR	B	NR
1-Nitropropane		70ºF	A			B	B
Nonylphenol		100ºF	A			B	
Nonylphenol		180ºF	A			B	
n-Octyl Alcohol		70ºF	A			B	B
Nu-Calgon Evap Pow'r-C	100%	70ºF				A	LR
Nu-Calgon Evap-Green	100%	70ºF				A	LR
Nu-Calgon Green Clean	100%	70ºF				A	LR
Nu-Calgon Cal-Green	100%	70ºF				A	LR
Nu-Calgon Tri-Pow'r HD	100%	70ºF				A	LR
Nu-Calgon TriClean 2x	100%	70ºF				A	LR
Nu-Calgon Nu-Solve NR	100%	70ºF				A	LR
p-t-Octyl Phenol		250ºF	A				
Oil, Cutting		140ºF	A			B	B
Oil, water soluble		70ºF	A			B	
Oleic Acid		70ºF	A			B	B
Oleic Acid		250ºF	A				
Oleomargarine		70ºF	A				
Oleum		100ºF	B				NR
Olive Oil		70ºF	A			B	B
Orange Concentrate		70ºF	A			B	
Orange Soda Concentrate		70ºF	A			B	
Oxalic Acid		70ºF	A			B	B
Oxalic Acid		160ºF	A			B	
Oxygen		70ºF	A	A		B	B
Ozone			NR	NR		NR	
Palm Oil		70ºF	A	A		B	B
Palm Oil		150ºF	A	A		B	B
Palm Oil (Crude)		250ºF	A	A		B	NR
Palmitic Acid		200ºF	A			B	B
Palmolive® Dish soap		150ºF	A				
Paraformaldehyde	50%	150ºF	A			B	
Paraldehyde		70ºF	A			B	

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Peanut Butter		70ºF	A	A			
Peanut Oil		70ºF	A				
1,3-Pentadiene		100ºF	A			B	B
Pepper		70ºF	A			B	
Pepperoni						NR	
Perchloric Acid	20%	70ºF		B			NR
Perchloroethylene		200ºF	A			B	NR
Phenol	3%	70ºF	A			B	NR
Phenol	5%	150ºF	A				
Phenol	50%	150ºF	A	A			
Phenol	90%	100ºF	A	A			NR
Phenol	90%	150ºF	A	A			NR
Phenol	100%	150ºF	A	A			NR
Phenylenediamine	50%	70ºF	A				
Phenylhydrazine		70ºF	B				
1-Phenyl-2-methyl-1,2-propanediamine		70ºF	A				
Phosphoric Acid	10%	70ºF	B		B	B	B
Phosphoric Acid	10%	150ºF	B	B		B	B
Phosphoric Acid	25%	100ºF	B	B	B		
Phosphoric Acid	25%	150ºF	B	B			
Phosphoric Acid	50%	150ºF	NR	NR			
Phosphoric Acid	75%	100ºF			B		
Phosphoric Acid	75%	150ºF	NR	NR			
Phosphoric Acid	85%	70ºF	B			B	B
Phosphorus Oxychloride		70ºF	A				
Phosphorus Trichloride		70ºF	A				NR
Phthalic Acid	90%	70ºF	A				
Phthalic Anhydride	80%	70ºF	A				
Phthalic Anhydride, Concentrated (Mother Liquor)		100ºF	A				
Phthalic Anhydride, molten		347ºF	A				
Pickling Acid, sulfuric		150ºF				B	B
Picric Acid		70ºF				B	B
Pine Oil		70ºF	A	A	A	B	B
Pine Oil		100ºF	A	A	A	B	B
Polyaluminum Chloride		70ºF	A				
Polyethylate Nonylphenol	70%	100ºF	A			B	
Polyethylene Glycol		100ºF	A			B	
Polyols		100ºF	A				
Polyvinyl Acetate Emulsion		70ºF	A	A		B	
Polyvinyl Chloride Pellets		70ºF					
Potassium Acetate	25%	150ºF	A	A	A	B	B

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Potassium Bicarbonate		150ºF				B	B
Potassium Bisulfate		100ºF				B	B
Potassium Bromate	7%	70ºF	A	NR	A	B	NR
Potassium Bromate	7%	150ºF	B	NR	A	B	NR
Potassium Bromide	10%	150ºF	A	A	A	B	B
Potassium Bromide	100%	70ºF	A			B	B
Potassium Carbonate	10%	150ºF	B	B		B	B
Potassium Chloride	10%	70ºF	A	A	A	B	B
Potassium Chloride	10%	150ºF	A	A	A	B	B
Potassium Chloride	25%	150ºF	A	A	A	B	B
Potassium Chloride	100%	70ºF	A			B	B
Potassium Chromate	10%	150ºF	A	A		B	
Potassium Cuprocyanide		100ºF				B	B
Potassium Cyanate		150ºF				B	B
Potassium Dichromate	10%	150ºF	A	A		B	B
Potassium Ferricyanide	25%	150ºF	A	A		B	B
Potassium Ferrocyanide		70ºF	A			B	B
Potassium Fluoride		70ºF	A			B	B
Potassium Hydroxide	10%	100ºF	NR			NR	NR
Potassium Hydroxide	10%	150ºF	NR				
Potassium Hydroxide	50%	70ºF	NR	NR		B	NR
Potassium Hydroxide	50%	150ºF	NR	NR		NR	NR
Potassium Hypochlorite		100ºF	NR			NR	NR
Potassium Iodide	25%	150ºF	A	A	B	B	B
Potassium Nitrate	50%	70ºF	A			B	B
Potassium Nitrite		150ºF					B
Potassium Oleate		150ºF	A				
Potassium Permanganate		70ºF	B			B	B
Potassium Persulfate		150ºF				B	B
Potassium Phosphate		100ºF	A			B	B
Potassium Sulfate		150ºF	A			B	B
Potassium Sulfide		150ºF				B	B
Potassium Thiosulfate		100ºF				B	B
Propane		100ºF	A	A		B	B
Proprionaldehyde		70ºF	A			B	
Proprionic Acid		70ºF	LR				
n-Propyl Acetate		70ºF	A	A		B	
n-Propyl Alcohol	100%	70ºF	A	A		B	B
n-Propyl Alcohol		100ºF	A	A		B	B
n-Propyl Alcohol		150ºF	A	A		B	B
Propylene		100ºF	A			B	B

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Propylene Glycol		100ºF	A	A		B	
Propylene Glycol Monomethyl Ether (PM)		150ºF	A	A	NR	B	
Propylene Oxide		70ºF	A				
Propylenediamine		70ºF	A				NR
Pro-Red +	10%	70ºF				NR	
Prune Juice		100ºF	A			B	B
Pyridine		100ºF	A			B	
Pyrogallic Acid		70ºF				B	B
Quaternary Ammonium Chlorides		100ºF	A				
Rapeseed Oil		70ºF	A	A		B	B
Rocadyna (PVP)		150ºF	A		NR		
Rochelle Salts		100ºF	A			B	B
Rosin (wood)		388ºF	A			B	B
Rubber Latex		77ºF	A			B	
Sake Wine		100ºF	A	A		B	
Salicylic Acid	10%	150ºF	A	A		B	B
Salomi		70ºF				NR	
Saturated Lime & Calcium		374ºF		NR			
Sauve® shampoo	100%	70ºF	A				
Scale Gone 70 (MEC Corporation)	17%	150ºF	A	A			
Silicic Acid		100ºF				B	B
Silver Nitrate	20%	150ºF	A	A	B	B	B
Silver Plating Solution		150ºF				B	B
Sodium Acetate	25%	70ºF	A	A	A	B	B
Sodium Acetate	25%	150ºF	A	A	A	B	B
Sodium Acetate	50%	150ºF	A	A	A	B	B
Sodium Aluminate		100ºF				B	B
Sodium Bicarbonate		150ºF	B			B	B
Sodium Bisulfate	10%	150ºF	A			B	B
Sodium Bisulfate	25%	150ºF	A	NR		B	B
Sodium Bisulfide		100ºF				B	B
Sodium Bisulfite	25%	150ºF	A	A		B	B
Sodium Borate		100ºF	A			B	B
Sodium Bromide		150ºF	A			B	B
Sodium Carbonate	10%	176ºF	A	B	A	B	B
Sodium Carbonate	15%	185ºF	A		A		
Sodium Carbonate	20%	140ºF	A			B	B
Sodium Carbonate	50%	70ºF	A			B	B
Sodium Carbonate	99%	100ºF	A			B	B
Sodium Chlorate	46%	120ºF	NR	NR	A		
Sodium Chlorate	50%	70ºF	A	LR	A	B	B

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
Blank:Insuffient Data

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Sodium Chlorate	50%	120ºF	LR	LR	A		
Sodium Chloride	5%	70ºF				A	
Sodium Chloride	5%	150ºF	A	A		B	B
Sodium Chloride	20%	77ºF	A	A		B	B
Sodium Chloride	20%	200ºF	A				
Sodium Chloride	40%	200ºF	A			B	B
Sodium Chlorite		100ºF	B			B	B
Sodium Chlorite	25%	120ºF	NR	NR	NR	NR	NR
Sodium Chromate	50%	70ºF	A			B	B
Sodium Cyanide	20%	100ºF	B			B	B
Sodium Dichromate		100ºF	B			B	B
Sodium Ferricyanide		100ºF				B	B
Sodium Fluoride	25%	122ºF	A	A		B	NR
Sodium Fluoride	25%	150ºF	A	A		B	NR
Sodium Formate	22%	180ºF	A			B	
Sodium Formate	48%	150ºF	A				
Sodium Formate	50%	250ºF				B	
Sodium Hydrosulfide (Sodium Bisulfide)		100ºF				B	B
Sodium Hydroxide	½%	176ºF	A	B	A		NR
Sodium Hydroxide	1%	100ºF			A	NR	NR
Sodium Hydroxide	2%	77ºF		B	A	B	NR
Sodium Hydroxide	2%	176ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	8%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	70ºF	NR	NR		B	NR
Sodium Hydroxide	10%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	120ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	150ºF	NR	NR		NR	NR
Sodium Hydroxide	10%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	20%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	20%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	25%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	28%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	30%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	50%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	73%	160ºF	NR	NR	B	NR	NR

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Sodium Hydroxide	73%	250ºF	NR	NR		NR	NR
Sodium Hydroxide	75%	150ºF	NR	NR		NR	NR
Sodium Hypochlorite (Bleach)	5%	70ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	100ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	140ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite (Bleach)	5½%	150ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	12½%	70ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	15%	70ºF	NR	NR		NR	
Sodium Hypophosphite	5%	70ºF	A				
Sodium Metaphosphate	5%	70ºF	A				
Sodium Metaphosphate	12½%	100ºF	A				
Sodium Nitrate		100ºF	A			B	B
Sodium Nitrite		150ºF				B	B
Sodium Oleate		100ºF	A			B	B
Sodium Permanganate		150ºF				B	B
Sodium Peroxide		100ºF	B			B	B
Sodium Phosphate	50%	70ºF	B			B	B
Sodium Polyacrylate		70ºF	A				
Sodium Propionate	20%	70ºF	A			B	
Sodium Silicate		150ºF	A			B	B
Sodium Sulfate	10%	150ºF	A	A	A	B	B
Sodium Sulfate	25%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	200ºF	A	A	A	B	B
Sodium Sulfate Nickle Pickling Solution		150ºF				B	B
Sodium Sulfhydrate		100ºF	A				
Sodium Sulfite	10%	150ºF	A	A	A	B	B
Sodium Sulfite	10%	180ºF	A	A	A	B	B
Sodium Sulfite	25%	150ºF	A	A	A	B	B
Sodium Thiocyanate	10%	70ºF	LR				
Sodium Thiocyanate	50%	70ºF	LR				
Sodium Thiosulfate	10%	150ºF	A	A	A	B	B
Sodium Thiosulfate	30%	100ºF	A	A	A	B	B
Sodium Thiosulfate	30%	120ºF	A	A	A	B	B
Sodium ThioSulfate	30%	150ºF	A	A	A	B	B
Sodium Toluene Sulfonate	40%	100ºF	A				
Sodium Xylene Sulfonate		100ºF	NR				
Solo® Laundry detergent	100%	150ºF	B		NR		
Sorbitol	conc.	100ºF	A	A		B	
Soya Oil		180ºF	A			B	B
Soybean Hydrase		70ºF	A	A	A	B	

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Soybean Hydrase		150ºF	A	A	A	B	
Soysauce	100%	150ºF	A		A		
Sparkle	100%	70ºF				A	
Spor-Klenz®	1%					A	B
Spor-Klenz®	100%					A	
Stannic Chloride		100ºF	B			B	B
Stannous Chloride		100ºF				B	B
Starch		150ºF	A	A		B	B
Steam		225ºF	A	A	NR	B	NR
Steam		250ºF	A	A	NR	B	NR
Steam		290ºF	A	A	NR		NR
Stearic Acid	90%	160ºF	A	A		B	B
Stoddard Solvent		150ºF	A	A		B	B
Strawberry Preserves		70ºF	A				
Styrene		70ºF	A				
Styrene Butadiene Latex (pH 7-9)		140ºF	A	A			
Sugar Mixture		70ºF	A			B	B
Sulfamic Acid	20%	70ºF	A			B	B
Sulfamic Acid	50%	70ºF	A			B	B
Sulfur	100%	300ºF	A		B	B	NR
Sulfur Chloride		100ºF					NR
Sulfur Dioxide		150ºF	A			B	LR
Sulfur Trioxide		100ºF					NR
Sulfuric Acid	5%	70ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	100ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	120ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	150ºF	B	LR	B	B	B
Sulfuric Acid	10%	77ºF	B	NR	B	B	
Sulfuric Acid	10%	100ºF	B	NR	B		
Sulfuric Acid	10%	120ºF	B	NR	B	B	B
Sulfuric Acid	10%	150ºF	B	NR	B	B	
Sulfuric Acid	15%	185ºF	B	NR			
Sulfuric Acid	20%	70ºF	B	LR	LR	B	B
Sulfuric Acid	20%	150ºF	B	B	B	B	
Sulfuric Acid	25%	70ºF	B			B	
Sulfuric Acid	25%	100ºF	B	B		B	
Sulfuric Acid	25%	150ºF	B	B		B	
Sulfuric Acid	25%	300ºF	B	B			
Sulfuric Acid	30%	70ºF	B			B	B
Sulfuric Acid	30%	100ºF	B	B	B	B	
Sulfuric Acid	30%	150ºF	NR	NR			

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Sulfuric Acid	50%	70ºF	LR		B	B	B
Sulfuric Acid	50%	150ºF	LR			B	B
Sulfuric Acid	70%	70ºF	A			B	B
Sulfuric Acid	70%	100ºF	A			B	B
Sulfuric Acid	70%	150ºF	B	B		B	B
Sulfuric Acid	75%	70ºF	A				
Sulfuric Acid	75%	100ºF	A			B	B
Sulfuric Acid	75%	150ºF	LR			B	B
Sulfuric Acid	92%	100ºF	A				NR
Sulfuric Acid	96%	100ºF	A				
Sulfuric Acid	98%	70ºF	A	B		B	NR
Sulfuric Acid	98%	120ºF	A				NR
Sulfuric Acid	98%	150ºF	B				NR
Sulfuric Acid	98%	180ºF	NR				NR
Sulfuric Acid	100%	100ºF	LR	NR	NR		NR
Sulfuric Acid	100%	150ºF	LR	NR			NR
Sulfuric Acid/Chromic Acid 6%/5%		100ºF	NR				
Sulfuric Acid/Nitric Acid 64%/0.1%		100ºF	NR				
Sulfurous Acid	15%	200ºF	A				
Sulfurous Acid	100%	100ºF				B	NR
Surfactants		100ºF				B	B
Tall Oil		70ºF	A			B	B
Tall Oil		180ºF	A			B	B
Tallow (crude)		150ºF	A			B	B
Tannic Acid	10%	200ºF	A				
Tannic Acid	100%	100ºF	A			B	B
Tar		150ºF	A			B	B
Tartaric Acid	30%	200ºF	A				
Tartaric Acid	100%	100ºF				B	B
Tetrachloroethane		200ºF	A	A		B	NR
Tetraethylenepentamine		70ºF	A				
Tetrafluoroethylene		150ºF	A		A	B	NR
Tetrahydrofuran		70ºF	A			B	
Tetrahydrofuran		151ºF	A	A		B	
Thioglycolic Acid	97%	70ºF	A	A			
Thioglycolic Acid	97%	150ºF	LR	LR	NR		
Thiols		70ºF	A				
Tide® Laundry detergent	100%	70ºF	A				
Tide® Laundry detergent	100%	150ºF	A		NR		
Tin Immersion Dip		150ºF			NR		B
Tin Tetrachloride	50%	70ºF	A		A	B	NR

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Titanium Dioxide		100ºF	A.				
Titanium Tetrachloride		100ºF	NR	NR			
Toluene	100%	70ºF	A	A	B	B	NR
Toluene	100%	100ºF	A	A	B	B	NR
Toluene	100%	230ºF	A	A	B	B	NR
Toluene Diisocyanate (TDI)		100ºF	A	A			
Toluenesulfonamide/formaldehyde resin	100%	150ºF	A	A	A		
Tomato Paste, no salt (Hunts®)	100%	150ºF			A		
Tomato Puree (Hunts®)	100%	150ºF			A		
Toxaphene	100%	194ºF	A				
Toxaphene	100%	212ºF	A	LR			
Transformer Oil		70ºF	A				
Tributyl Phosphate		70ºF	A				
1,1,1 Trichloroethane		70ºF	A	A			
1,1,1 Trichloroethane		165ºF	A	A	B	B	NR
Trichloroethylene	100%	70ºF	A	A	A	B	NR
Trichloroethylene	100%	150ºF	A	A	A	B	NR
Trichloroethylene	100%	180ºF	A			B	NR
Tricresyl Phosphate	100%	70ºF	A	A	A	B	B
Tricresyl Phosphate	100%	100ºF	A			B	B
Tridecyl Alcohol		70ºF	A			B	B
Triethanolamine		100ºF	A				
Triethanolamine Lauryl Sulfate		100ºF	A	LR			
Triethylbenzene		150ºF	A				
Triethylene Glycol		100ºF	A				
Triethylenetetramine		100ºF	A	A			
Trifluoroacetic Acid (3M)	100%	162ºF	A	A	B	B	NR
Triphenyl Phosphite		100ºF	A	A	A	B	NR
Tripotassium Phosphate		150ºF	A	A	A	B	NR
Trisodium Phosphate	5%	140ºF	A			B	NR
Tung Oil	100%	70ºF	A	A	A	B	B
Turpentine		70ºF	A			B	B
Urea Fromaldehyde resin		100ºF	A			B	B
Urea Liquor		266ºF	A			B	B
Urea Solution	50%	100ºF	A				
Urea-Ammonium Nitrate solution		150ºF	A				
Uric Acid		70ºF	A			B	
V-8 Vegetable Juice		70ºF	A	A			
Vapam		100ºF		A			
Varnish		150ºF	A				
Vegetable Oil		100ºF	A				

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Vesphene (Steris Product)	100%	70ºF				A	
Vesphene (Steris Product)	0.01%	70ºF				A	
Vicks® Cough Syrup		70ºF	A			B	NR
Vinegar (White)		70ºF	A				
Vinyl Acetate (Clear liquid)		150ºF	A			B	B
Vinyl Chloride		70ºF	A			B	B
Vinyl Toluene		100ºF	A		A	B	B
Water, Boiler		212ºF	A				
Water, Boiling Distilled		225ºF	A			B	B
Water, Boiling Distilled		250ºF	A				
Water, Boiling Distilled		290ºF	A	A		B	B
Water, Brackish		150ºF	A	A			
Water, Cation Exchange	pH4	180ºF	A			B	
Water, DI		100ºF	A	A	A	B	B
Water, DI		150ºF	A	A	A	B	B
Water, DI		212ºF	A	A	A	B	NR
Water, Fresh		212ºF	A	A		B	B
Water, Salt	5%	150ºF	A			B	B
Water, Sea		165ºF	A	A		B	B
Water, Sea		212ºF	A	A		B	NR
Water, Tap		100ºF	A	A	A	B	B
Water, Tap		150ºF	A	A	A	B	B
Water, Tap		212ºF	A			B	NR
Wax		200ºF	A				
Whey		70ºF	A				
Whiskey		150ºF	A			B	B
White Liquor		150ºF	NR	NR		B	B
Whizz® Laundry detergent	100%	150ºF	NR	NR	NR		
Wine		100ºF	A			B	B
Wood Rosin	100%	100ºF	A	A	NR	B	B
Wood Rosin		388ºF	A			B	NR
Xylene	100%	150ºF	A	A		B	NR
P-Xylene		150ºF	A	A		B	NR
Yeast		150ºF				B	
Zinc Acetate	10%	100ºF	A			B	B
Zinc Acetate	30%	100ºF	A			B	B
Zinc Calcium Bromide		150ºF	A	A	A	B	B
Zinc Chloride	10%	150ºF	A	A		B	B
Zinc Chloride	40%	70ºF	A			B	B
Zinc Chloride	50%	70ºF	LR	LR		B	B
Zinc Nitrate		100ºF	B	B		B	B

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Zinc Plating Solution		150ºF	B	B		B	B
Zinc Sulfate		100ºF	B	B		B	B

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HERESITE PROTECTIVE COATINGS, LLC

3005 Ranchview Ln N
Plymouth, MN 55447
cdicurbs.com 888-234-7001

Manufacturer's Certification of Compliance

To Whom It May Concern,

I, Joe Long, Crystal Distribution Inc. Supply Chain Manager, certify that the products listed below comply with the domestic content requirements of the Build America, Buy America Act (BABA) and related federal regulations.

Product(s) or Material(s):

- Curbs
- Curb Adapters

Certification Statement:

For manufactured goods and construction materials, I certify that all manufacturing processes occurred in the U.S. at one of our five (5) manufacturing facilities, the cost of U.S.-sourced components is more than 55% of the total component cost, and final manufacturing or assembly was in the U.S.. For iron and steel products, all manufacturing, from melting through coating, took place in the U.S. based upon certifications provided to us by our galvanized sheet metal and micromat insulation suppliers.

This certification confirms compliance with all applicable BABA requirements.

Notification of Changes:

I agree to inform you immediately if compliance changes during this project.

Declaration:

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Joe Long
Supply Chain Manager
jlong@cdicurbs.com
763-639-7487

Line	Quantity	CDI Part #	Tag
A	2	2-0016-9206	PAC- AO1 PAC- AO2

Description

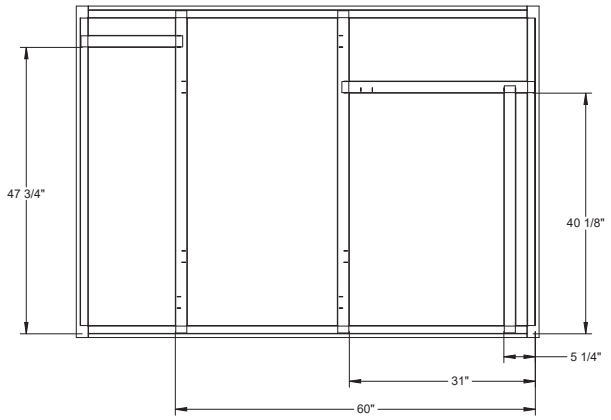
Straight Curb
Straight, No Pitch, 16 in
New Model: RN013 B CABINET STANDARD AND POWER EXHAUST. DUCT BRACES
Wood Nailer; Top Brace; Not Insulated; Insulated Condenser Panel (only where required)

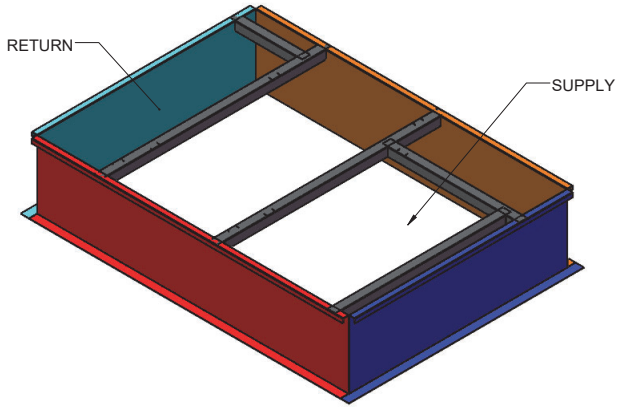
Curbs to be coated with p-413 heresite coating by Blygold

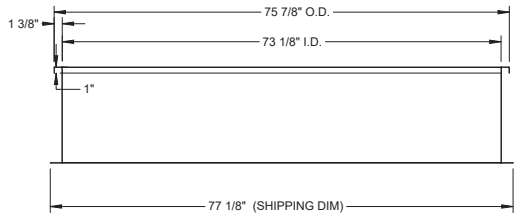
OPTIONS:
MATERIAL: 18 ga. GAL STEEL
INSULATED PANELS (WHERE REQUIRED)
1X4 WOOD NAILER (UNDER TOP FLANGE)

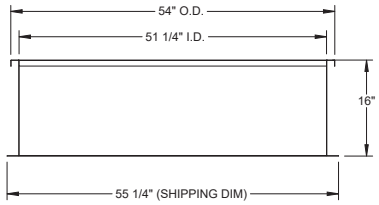
DIMENSIONED AND TOLERENCED PER ANSI Y14.5M-1982

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	INITIAL DRAWING	5/01/2017	HMH









CURB SHOWN IS CDI STANDARD CONFIGURATION
CDI RESERVES THE RIGHT TO CHANGE LAYOUT WITHOUT NOTIFICATION. IF CURB IS NEEDED IN A DIFFERENT CONFIGURATION CDI MUST BE NOTIFIED PRIOR TO PLACING AN ORDER.

*VERIFY EXISTING CURB OD
*VERIFY SUPPLY AND RETURN OPENINGS
*NOTE ANY CHANGES
*CALL WITH ANY QUESTIONS
*FAX BACK IF DRAWING IS OK AS IS

CURB WEIGHT (LBS.): 83.77

UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE: X ± 0.06, XX ± 0.03, XXX ± 0.01, ∠ ±2°, X.XX ± 1.27, X.X ± 1.0

DIMENSIONS ARE AS FOLLOWS: INCH [MM]

3RD ANGLE PROJECTION

APPROVALS	DATE
DRAWN: showard	
CHECKED: -	-
Monday, January 8, 2018 11:50:49 AM	

CDI
17560 TYLER ST NW
ELK RIVER, MN 55330
(763)391-7790
(763)391-7851

TITLE: 2-0016-9206

FILE NAME: 2-0016-9206

DRAWING NO.:

REV: 01

ECO #:

SCALE: 1:16 SHEET: 4 OF 7

S:\CURBS_CURB_ADAPTERS\2-XXXX-XXXX_PITCHED_STRAIGHT_KD\STANDARD STRAIGHT-PITCHED\9000\2-0016-9206\

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Wate Water Resource Recovery Facility
PRODUCT	Packaged Air Conditioners/ Packaged Heat Pumps
MANUFACTURER	AAON
SPECIFICATION	156500-6-11 2.50
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 15, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

1100 Kendrick Ave. Springdale AR, 72764

SUBMITTAL NOTES

Review Comments

Remarks

1. **Please include bookmarks in the submittal PDF for the different unit tags and products.**
2. **Blygold coating submitted is tested on aluminum panels. This coating does not appear to be intended to be used as conformal coating for electronic circuit boards and wiring connections. Confirm or submit appropriate coating product for electronics.**
3. **Response to comment is not clear that the increased MCA rating has been coordinated with the electrical power circuit. Contractor to confirm.**
4. **Response to comments on roof curbs is not found. Confirm roof curbs are provided and include product information.**
5. **PAC A0l / PAC A02 / PAC J0l / PAC J02 / PHP L0l: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/ designer.**
6. **PHP L02: Contractor to coordinate exact location of openings with existing joists and framing members.**
7. **PHP L03: Contractor to coordinate exact location of openings with existing joists and framing members.**
8. **PHP M0l: This unit is supported by a concrete slab and grade**

Review Response

1. **Bookmarks are included on this submittal document**

2. The equipment manufacturer does not recommend coating electronic terminals or connections due to serviceability concerns. If the electrical is coated there is not a viable way to service, diagnose, or maintain proper operation of the systems. The note for H-2 Note 2 is listed below and calls out a conformal coating however, the spec calls for all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating. The H-2 Note #2 appears to be pulled from the Spec section 15650-11 Casing- a. DOAS 15650-12 a cont. Uncoated galvanized steel exterior is not acceptable. controls panels, wiring connections and other sensitive electronics shall be provided with heresite, E-coat, micro guard, or equal. There is not a spec call out for electrical coating on the Packaged Roof Top Units. Furthermore, the electrical components are in an isolated compartment not subject to exposure of the air stream.

H-2 Note 2 Packaged Roof Top Units 2. UNIT IS SUBJECT TO CORROSION FROM A HYDROGEN SULFIDE LADEN ATMOSPHERE. ALL AIRSTREAM COMPONENTS AND EXPOSED HEAT TRANSFER COMPONENTS SHALL BE GIVEN A PROTECTIVE SPECIAL COATING OF HERESITE, MICROGUARD 1, ELECTROFIN E-COAT OR APPROVED EQUAL. "CONTROLS PANELS, WIRING CONNECTIONS AND OTHER SENSITIVE ELECTRONICS – Pulled from DOAS Spec section 15650-11,12 a."

Spec - 15650-7 c. Where indicated in the schedules on the Drawings, all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating.

3. Contractor to Confirm

4. Curb data provided for each submitted section. Curbs to include Heresite P-413 coating by Blygold.

5. Contractor to Confirm

6. Contractor to Confirm

7. Contractor to Confirm

8. Contractor to Confirm

SUBMITTAL NOTES

PAC_J01 & PAC_J02

Remarks BLACK & VEATCH NOTES FROM SEPTEMBER 3, 20205

Building Mechanical Comments:
All Units:

1. Roof Top Units are specified under Division 15650, revise submittal title and confirm compliance with 15650.
2. Contractor to confirm that materials comply with American Iron and Steel (AIS) requirements as indicated section 15650-1.02.
3. AAON is not a listed manufacturer in specification section 15650. To be considered as a substitute, submit additional information on construction materials / components to prove compliance with section 15650 – 2.05.A.
4. There is no digital Building Management Control system (BMS) on the project. Controls are hardwired and must be built-in or coordinated with the general HVAC controls supplier. Contractor to confirm that all controls, interlocks, and alarms as indicated in the Contract Drawing Sequence of Operation H-6 will be provided.
5. Confirm extra materials will be provided as indicated in specification section 15650-2.05.A.3.
6. Confirm coatings will be applied as required by the Packaged Air Conditioning/Heat Pump Schedule Notes on Contract Drawing H-3. Please provide coating information and chemical resistance charts.
7. Confirm the cooling capacities listed in the submittal account for coatings provided.
8. Confirm Modulating Hot Gas Reheat is included on all units.
9. Confirm economizers are provided with differential enthalpy plus fixed dry bulb control.
10. Confirm supply fans are direct drive and provided with VFDs.
11. Confirm all units with R454B refrigerant are provided with A2L leak detection, alarm, and refrigerant circuit shutdown capability. Contractor to coordinate leak detection unit operation with duty / standby controls where applicable.
12. Confirm all units are provided with a roof curb 16 inches in height as required by spec paragraph 2.05.A.13.e.

POWERS OF ARKANSAS -
RESUBMIT NOTES 11/10/2025:
1. REVISED SUBMITTAL PER SPEC SECTION 15650
2. REVISED SUBMITTAL AMERICAN IRON AND STEEL COMPLIANCE - SEE BELOW
3. REVISED SUBMITTAL PER SPEC SECTION 15650-2.05.A.
4. REVISED SUBMITTAL UNIT HAS FACTORY CONTROLLER - FIELD CONTROLS PER DRAWING H-6 PROVIDED BY OTHERS
5. REVISED SUBMITTAL INCLUDES SPEC SECTION 15650-2.05.A. ADDITIONAL ITEMS OIL & FILTERS - PAGE #9 F9A BELOW - [1] LUBRICATING OIL SHIPS LOSE
6. REVISED SUBMITTAL INCLUDES CORROSIVE COATING PER DRAWING NOTE H-3 SEE ATTACHED HERESITE AND SUBMITTAL CALL OUT ON PAGE #10 F.37 & PAGE #16 BELOW
7. REVISED SUBMITTAL CAPACITES ACCOUNT FOR COATINGS.
8. REVISED SUBMMITAL MHGRH CALLED OUT ON PAGE #10 F11A. BELOW
9. REVISED SUBMMITAL ECONOMIZER WITH DIFFERENTAL ENTHALPY AND SENSIBLE TEMP SENSOR CALLED OUT ON PAGE #9 F7 BELOW
10. REVISED SUBMMITAL DIRECT DRIVE FANS WITH VFD CALLED OUT ON PAGE #9 F3.4/F3.B/F3.C BELOW
11. REVISED SUBMMITAL A2L COMPLIANT SEE ON PAGE #11 BELOW

I cannot say for sure if we have ever provided a letter or not to a customer. But all our raw material steel, Copper, Galvanized, Aluminum, & Stainless we get from domestic mills.

Jimmy T Davis
Category Manager-Raw Materials

AAON, Inc.
p: 918-382-6525
2425 S Yukon Ave
Tulsa, OK 74107
www.aaon.com

BLACK & VEATCH NOTES FROM SEPTEMBER 3, 2025

PAC-A01, A02

1. Latent capacity of 13.5 MBH is required as indicated in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Net sensible capacity of 106.5 MBH is required from calculations. Confirm these can be met and update gross total capacity.
2. MCA submitted is higher than scheduled. Electric heat kW is higher than required in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Contractor to coordinate any required changes with electrical at no additional cost to owner.
3. The unit weight is higher than indicated in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Contractor to coordinate any changes due to weight or different dimensions with the structural engineer at no additional cost to owner.
4. Unit submitted with two-step single compressor refrigerant circuit. Three stages of cooling are required in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Single compressor is not acceptable.

POWERS OF ARKANSA-
RESUBMIT NOTES 11/10/2025:

1. REVISED CAPACITY ON PAGE #5 BELOW
141.3 mbh total / 117.3 mbh sensible / 23.9 mbh VS. SCHEDULED 121.5 mbh total / 107.5 mbh sensible / 14 mbh
2. REVISED SUBMITTAL MCA 44 vs. SCHEDULED OF 40 - PAGE #5 BELOW
3. REVISED SUBMITTAL WEIGHT 2039lbs vs. SCHEDULED OF APPROX 1600lbs - PAGE #4 BELOW
4. REVISED SUBMITTAL HAS VARIABLE CAPACITY COOLING - SEE PAGE #9 [RED ARROW] BELOW

Unit Rating

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	1	2	3A	3B	3C	3D	3E	4A	4B	4C	5A	5B	5C	5D	5E	6A	6B	6C	6D	6E	7	8	9A	9B	9C
R	N	A	-	0	1	3	-	B	-	A	-	3	-	F	A	A	T	5	-	A	0	1	N	0	:	0	0	-	0	F	E	L	H	-
G	0	0	-	0	0	0	0	0	-	A	B	G	M	G	-	D	C	-	0	0	0													
A	-	0	0	-	Q	0	-	0	-	A	N	0	-	E	B	-	D	A	0	A	-	0	0	-	0	0	0	-	B	0	0	B	0	0
-	G	0	0	0	0	B	-	0	0	0	0	0	0	C																				

9D	10A	10B	11A	11B	12	13A	13B	13C	14	15	16A	16B	16C	16D	17A	17B	18A	18B	18C	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37

Tag: PAC_ J01

Job Information

Job Name:	*Bentonville WRRF*
Job Number:	*Bentonville WRRF*
Site Altitude:	*1266*
Refrigerant:	*R-454B*
Design System Charge (oz):	*176 / 334*

Unit Information

Approx. Op./Ship Weights:	*2039 lbs / 2039 lbs (±5%)*
Ambient Temperature (DB/WB):	*102.0 °F / 75.0 °F*
Coil Filter FV / Qty:	*288.0 fpm / 4*
Min. Room Area/Height/Airflow**:	*314 ft² / 7 ft / 565 SCFM*
Exhaust Airflow/ESP/TSP:	*4000 SCFM / 0.10 in. w.g. / 0.36 in. w.g.*
Outside Air Prefilter FV / Qty:	*117.7 fpm / 1*
Supply Airflow/ESP:	*4000 SCFM / 0.73 in. w.g.*
Outside Airflow:	*400 SCFM*
Return Airflow/ESP:	*4188 SCFM / 0.10 in. w.g.*
Return Temperature (DB/WB):	*79.4 °F / 63.0 °F*

Static Pressure

External:	*0.73 in. w.g.*
Cooling Coil:	*0.21 in. w.g.*
Filters Clean:	*0.11 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*
Reheat Coil:	*0.04 in. w.g.*

Economizer:	*0.27 in. w.g.*
Heater:	*0.02 in. w.g.*
Cabinet:	*0.21 in. w.g.*
Total:	*1.93 in. w.g.*

Cooling Section

	Gross	Net
Total Capacity:	*146.6 MBH*	*141.3 MBH*
Sensible Capacity:	*122.7 MBH*	*117.3 MBH*
Latent Capacity:	*23.9 MBH*	
Mixed Air Temp (DB/WB):	*81.7 °F / 64.3 °F*	
Entering Air Temp (DB/WB):	*81.7 °F / 64.3 °F*	
Lv Air Temp (Coil) (DB/WB):	*51.5 °F / 51.0 °F*	
Lv Air Temp (Unit) (DB/WB):	*52.8 °F / 51.6 °F*	

Supply Air Fan:	*1 x 220D70 @ 1.89 BHP Ea.*
SA Fan RPM / Width:	*1419 RPM / 3.450 in*
SA Fan FEI:	*1.36*
Exhaust Air Fan:	*1 x RM12X9X2-RN @ 1.01 BHP Ea.*
EA Fan RPM / Width:	*797 RPM /*
EA Fan FEI:	*0.81*
Evaporator Coil:	*14.6 ft² / 4 Rows / 14 FPI*
Evaporator Face Velocity:	*274.3 fpm*

Heating Section

Preheat Type:	*Std (No Preheat)*
Auxiliary Heating Type:	*Electric Heat*
Heating Airflow:	*4000 SCFM*
Total Capacity:	*20.0 kW*
Entering Air Temp (DB/WB):	*69.0 °F / 58.4 °F*
Leaving Air Temp (DB/WB):	*85.3 °F / 64.1 °F*
Electric Heat FLA:	*24.1*

Re-heat Coil:

Capacity:	*90.3 MBH*
Leaving Air Temp (DB/WB):	*73.7 °F / 59.7 °F*
Relative Humidity:	*44.3%*

Rating Information

Listing Model	*RN-013-3-0-FAAY-S0-21-000-A*
Cooling Capacity:	*144.0 MBH*
Cooling EER:	*11.56 BTU/h·W*
Cooling IEER:	*15.88 BTU/h·W*

**Rated in accordance with AHRI Standard 340/360 (I-P)*

Application EER @ Op. Conditions: ***9.5 BTU/h·W***

Electrical Data

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

Circuit 1

Rating:	*460V/3Ø/60Hz*	*Minimum Circuit Amp:*	*44*
Unit FLA:	*37*	*Maximum Overcurrent:*	*45*
SCCR:	*10 KAIC*		

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	2		460	3			9.5
Condenser Fan:	2	1.00	460	1	1100	3.6	
Supply Fan:	1	5.00	460	3	1760	7.6	
Exhaust Fan:	1	2.00	460	3	1760	3.4	

Cabinet Sound Power Levels*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW (dB):	89	88	91	82	75	73	71	65
Return LW (dB):	85	80	81	69	67	63	59	49

**Sound data is generated by a propriety acoustics model validated through unit testing in accordance with AHRI 260, utilizing tested fan sound data in accordance with AMCA 300.*

*****The minimum floor area is based on the Lower Flammability Limit (LFL) and calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.***

22" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

JOB INFORMATION:

Job Name	*Bentonville WRRF*
Job Tag	*PAC_ J01*
Date	*3/9/2026 4:30:22 PM*

WHEEL SPECIFICATION:

Max RPM	*2200*
Diameter x Qty	*22 in. x 1*
CFM	*4000*
Inertia	*5 WR²*

OPERATING CONDITIONS

Airflow	*4000*
Fan Energy Index (FEI)	*1.36*
Static Pressure	*1.93 in. w.g.*
Relief Dampers DP	*0.00 in. w.g.*
TSP	*2.02 in. w.g.*
Site Altitude	*1266*

MOTOR SELECTION

Rated HP / Bypass	*5 x 1 / No*
Frame Size	*184T*
Nominal RPM	*1760*
VAC/PH/Hz	*460V/3Ø/60Hz*
Enclosure Type	*TEFC*
Max Inertial Load	*0 WR²*

FAN PERFORMANCE:

RPM	*1419*
BHP	*1.89*
Efficiency	*64.4%*
Max Duct SP with Blocked Airway	*0.00 in. w.g. @ 1419 RPM*

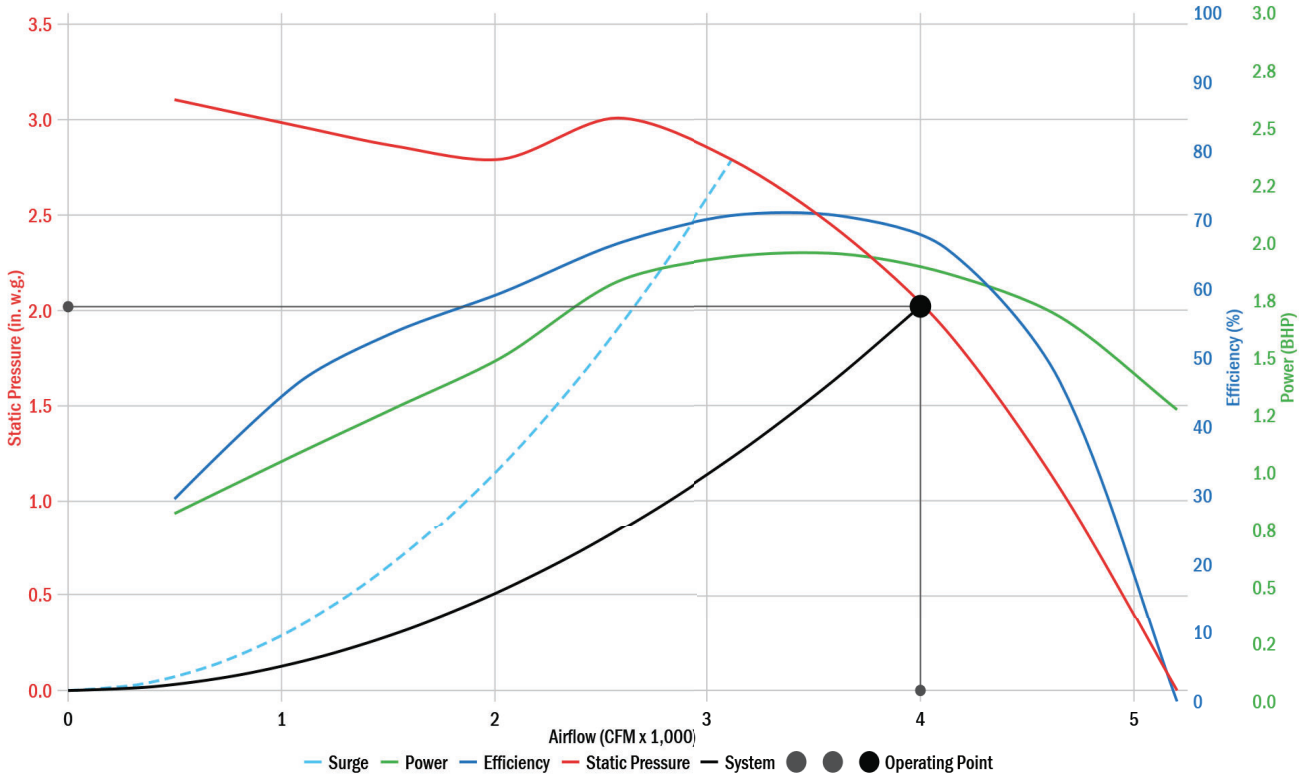
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
89	88	91	83	78	76	74	68
89	88	91	83	78	76	74	68

SOUND POWER A-Weighted: 90 dB

Supply Fan Model: 220D70 @ 1,419 RPM and 100% Width
Design Conditions: 4,000 CFM @ 2.02 in. w.g. SP



RM12X9X2 FC Fan

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

JOB INFORMATION:

Job Name	*Bentonville WRRF*
Job Tag	*PAC_ J01*
Date	*3/9/2026 4:30:22 PM*

WHEEL SPECIFICATION:

Max RPM	*1440*
Diameter x Qty	*11 in. x 1*
CFM	*4000*
Inertia	*3 WR²*

OPERATING CONDITIONS

Airflow	*4000*
Fan Energy Index (FEI)	*0.81*
Static Pressure	*0.36 in. w.g.*
Relief Dampers DP	*0.00 in. w.g.*
TSP	*0.38 in. w.g.*
Site Altitude	*1266*

MOTOR SELECTION

Rated HP / Bypass	*2 x 1 / No*
Frame Size	*145T*
Nominal RPM	*1760*
VAC/PH/Hz	*460V/3Ø/60Hz*
Enclosure Type	*TEFC*
Max Inertial Load	*0 WR²*

FAN PERFORMANCE

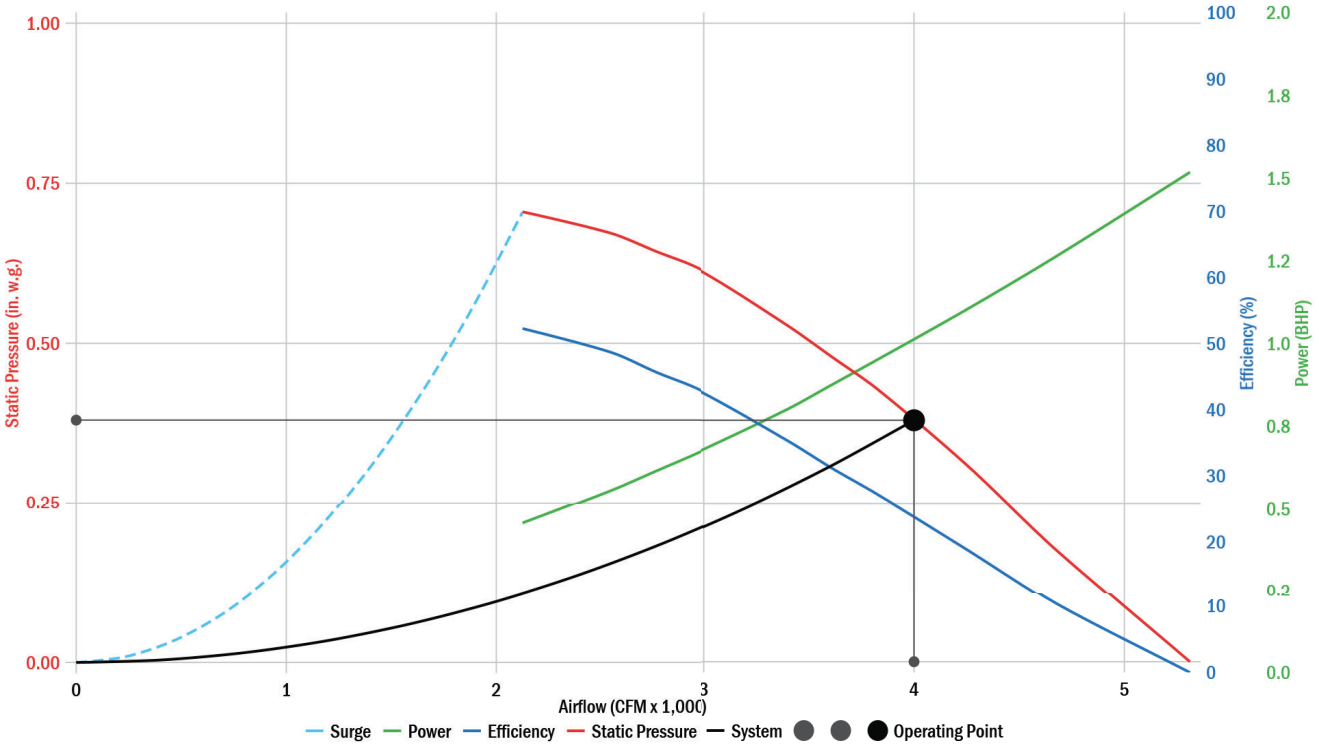
RPM	*797*
BHP	*1.01*
Efficiency	*22.5%*
Max Duct SP with Blocked Airway	*0.00 in. w.g. @ 797 RPM*

FAN SOUND POWER (Inlet/Outlet)

Octave Band:	1	2	3	4	5	6	7	8
(Re 10^-12 watts)								
	82	74	66	67	61	56	51	46
	82	74	66	67	61	56	51	46

SOUND POWER A-Weighted: 82 dB

Exhaust Fan Model: RM12X9X2 @ 797 RPM and 100% Width
Design Conditions: 4,000 CFM @ 0.38 in. w.g. SP



Unit Submittal

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	1	2	3A	3B	3C	3D	3E	4A	4B	4C	5A	5B	5C	5D	5E	6A	6B	6C	6D	6E	7	8	9A	9B	9C
R	N	A	-	0	1	3	-	B	-	A	-	3	-	F	A	A	T	5	-	A	0	1	N	0	:	0	0	-	0	F	E	L	H	-
G	0	0	-	0	0	0	0	0	-	A	B	G	M	G	-	D	C	-	0	0	0														
A	-	0	0	-	Q	0	-	0	-	A	N	0	-	E	B	-	D	A	0	A	-	0	0	-	0	0	0	-	B	0	0	B	0	0
-	G	0	0	0	0	B	-	0	0	0	0	0	0	C																				

9D	10A	10B	11A	11B	12	13A	13B	13C	14	15	16A	16B	16C	16D	17A	17B	18A	18B	18C	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37

Tag: *PAC_ J01*

Job Name: *Bentonville WRRF*

Job Number: *Bentonville WRRF*

Unit Worksheet For:

Unit Worksheet Date: *3/17/2026*

	Base Option	Description
RN	Generation	RN Series
A	Major Revision	Major Revision A
013	Unit Size	Thirteen
B	Series	B Series
A	Minor Revision	Minor Revision A
3	Voltage	460V/3φ/60Hz
F	Compressor Style	R-454B Two-Step Scroll Compressor
A	Condenser Style	Microchannel Air-Cooled Condenser
A	Indoor Coil Configuration	Standard Evaporator
T	Cooling Heat Exchanger Construction	Stainless Steel Evap. Coil Casing + Polymer E-Coated Evap. And Cond. Coils
5	Cooling Staging	5 Stage
A	Heat Type	Electric Heat (Vertical Unit Configuration)
0	Heat Construction	Standard
1	Heat Designation	20 kW
N	Heat Staging	Modulating SCR Electric - Temperature Control
0	Heat Pump Auxiliary Heating	No Auxiliary Heat

	Feature Option		Description
0	F1.	Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	F2.	Supply & Return Locations	Bottom Supply--Bottom Return
0	F3A.	Supply Fan Quantity	1 Fan
F	F3B.	Supply Fan Configuration	1 Fan per VFD + Narrow Width Fan
E	F3C.	Supply Fan Size	22" Direct Drive Backward Curved Aluminum
L	F3D.	Supply Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
H	F3E.	Supply Fan Motor Size	5 hp
G	F4A.	Outside Air Section	Economizer + Power Exhaust
0	F4B.	Energy Recovery Type	No Energy Recovery
0	F4C.	Energy Recovery Size	No Energy Recovery
0	F5A.	Return Fan Quantity	0 Return Fans
0	F5B.	Return Fan Configuration	No Return Fan
0	F5C.	Return Fan Size	No Return Fan
0	F5D.	Return Fan Motor Type	No Return Fan
0	F5E.	Return Fan Motor Size	No Return Fan
A	F6A.	Exhaust Fan Quantity	1 Fan
B	F6B.	Exhaust Fan Configuration	1 Fan per VFD + Full Width Fan
G	F6C.	Exhaust Fan Size	12x9 Forward Curved
M	F6D.	Exhaust Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
G	F6E.	Exhaust Fan Motor Size	2 hp
D	F7.	Outside Air Control	Fully Modulating Actuator - Enthalpy Limit
C	F8.	Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	F9A.	Unit Filter Type	2" Pleated - MERV 8
0	F9B.	Unit Filter Size & Location	Standard Filters in Standard Position
0	F9C.	Final Filter Type	No Final Filters
A	F9D.	Filter Options	Clogged Filter Switch - Unit Filters
0	F10A.	Refrigeration Control A	Standard - Adj Comp. Cooling Lock Out Through Unit Controls

	Feature Option		Description
0	F10B.	Refrigeration Control B	Standard
Q	F11A.	Refrigeration Options A	MHGR-MC - Polymer E-Coated
0	F11B.	Refrigeration Options B	Standard Packaged Unit
0	F12.	Refrigeration Accessories	None
A	F13A.	Unit Disconnect Type	Single Point Power - Non-fused Disconnect Power Switch
N	F13B.	Disconnect 1 Size	100 Amps
0	F13C.	Disconnect 2 Size	Standard - None
E	F14.	Safety Options	Remote Safety Shutdown Terminals
B	F15.	Electrical Accessories	Phase & Brown Out Protection
D	F16A.	Control Sequence	VAV Unit Controller - VAV Cool + CAV Heat
A	F16B.	Control Supplier	AAON Controls
0	F16C.	Control Supplier Options	None
A	F16D.	BMS Connection & Diagnostics	BACnet IP or MSTP
0	F17A.	Preheat Configuration	Standard - None
0	F17B.	Preheat Sizing	Standard - None
0	F18A.	Option Box Location	None
0	F18B.	Option Box Size	None
0	F18C.	Option Box Accessories	None
B	F19.	Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20.	Cabinet Options	Standard - None
0	F21.	Accessories	Standard
B	F22.	Maintenance Accessories	Field Wired 115V Convenience Outlet
0	F23.	Code Options	Standard - ETL U.S.A. Listing
0	F24.	Shipping Splits	Standard
G	F25.	Air-Cooled Condenser Accessories	Cond Coil Guards + ECM Condenser Fan Head Pressure Control
0	F26.	Evap-Cooled Condenser Accessories	Standard
0	F27.	Water-Cooled Condenser Accessories	None
0	F28.	Energy Recovery Accessories	None
0	F29.	VFD Options	Standard
B	F30.	Miscellaneous Options	SCCR (10kA)
0	F31.	Blank	Standard
0	F32.	Blank	Standard
0	F33.	Blank	Standard
0	F34.	Blank	Standard
0	F35.	Warranty	Standard Warranty
0	F36.	Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
C	F37.	Specials & Paint	Premium AAON Gray Paint Exterior Paint + Interior Corrosion Protection

Controller Components

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

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                                                A1 A2 A3 A4 A5    B1 B2 B3 B4 B5    1  2    3A 3B 3C 3D 3E    4A 4B 4C    5A 5B 5C 5D 5E    6A 6B 6C 6D 6E    7  8    9A 9B 9C
RNA-013-B-A-3-FAAT5-A01N0:00-0FELH-G00-00000-ABGMG-DC-000
A-00-Q0-0-AN0-EB-DA0A-00-000-B00B00-G0000B-000000C
 9D  10A 10B 11A 11B 12  13A 13B 13C 14  15  16A 16B 16C 16D 17A 17B 18A 18B 18C 19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37
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Tag: PAC_ J01

Job Name:	Bentonville WRRF	For:	
Job Number:	Bentonville WRRF	Date:	March 17, 2026

Part#	Included Parts	Assigned Channel	BACnet Point
ASM07503	VCCX-454 CONTROLLER		
ASM01692	OSA Temp/Hum Sensor	EBUS2 Communicating Sensor	AI:16,AI:17,AI:18,AI:19
R82890	Supply Temp Sensor - Field Installed	VCCX Control Point AI3	AI:9
ASM01820	Space Digital Temp/Hum Sensor - Field Installed	EBUS3 Communicating Sensor	AI:12,AI:13
R82890	Return Temp Sensor	VCCX Control Point AI4	AI:14
ASM01832	Building Pressure Sensor - Field Installed	VCCX Control Point AI5	AI:23
ASM01640	Duct Static Pressure Sensor - Field Installed	VCCX Control Point AI8	AI:21
	Supply Fan Control Signal 0-10VDC	VCCX Control Point AO1	AI:22
	Economizer	VCCX Control Point AO2	AI:30
	Modulated Heating (0-10VDC)	VCCX Control Point AO3	AI:35
	Building Pressure Control Signal	VCCX Control Point AO4	AI:24
R62330	Proof of Air Flow	VCCX Control Point BI1	BI:6, BI:24
G150620	Clogged Filter Switch (Standard Filters)	VCCX Control Point BI2	BI:25
	A2L Airstream Leak Detect Status	VCCX Control Point BI5	BI:9
	Safety Shut Down	VCCX Control Point BI8	BI:26
	Supply Fan	Configured Relay Point	BI:0
	Exhaust Fan	Configured Relay Point	BI:1
	Heat 1	Configured Relay Point	BI:2
	Morning Warm-Up	Configured Relay Point	BI:3
ASM07563	A2L MITIGATION BOARD 1		
G137750	Gas Sensor 1	A2L MB1 AI1	
	Supply Fan Proof of Flow	A2L MB1 BI1	
	Alarm Output	A2L MB1 Fixed RO3	
ASM07716	REFRIGERATION MODULE		
V38391	Suction Pressure Sensor A	RM454-D SP-1	AI:48
V38410	Discharge Pressure Sensor A	RM454-D HP-1	AI:50
V38391	Suction Pressure Sensor B	RM454-D SP-2	AI:73
V38410	Discharge Pressure Sensor B	RM454-D HP-2	AI:75
	Modulated Condenser Signal A	RM454-D AOUT1	AI:46
	Modulated Condenser Signal B	RM454-D AOUT2	AI:47
	Comp Status Input A	RM454-D BIN1	BI:77
	Comp Status Input B	RM454-D BIN2	BI:78
	Emergency Shutdown	RM454-D BIN4	BI:83
	Comp Enable A1	RM454-D RLY1	BI:84
	Comp Enable B1	RM454-D RLY2	BI:85
	Comp Load Signal A2	RM454-D COMP1	AI:44
	Comp Load Signal B2	RM454-D COMP2	AI:45
ASM01670	MODULATING HOT GAS REHEAT MODULE		

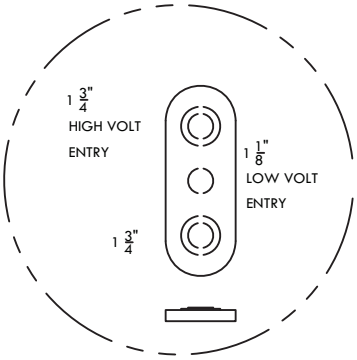
Reheat HGR Valve	MHGRV-X	AI:42

RNB 9-15 TON
ECON, POWER EXHAUST

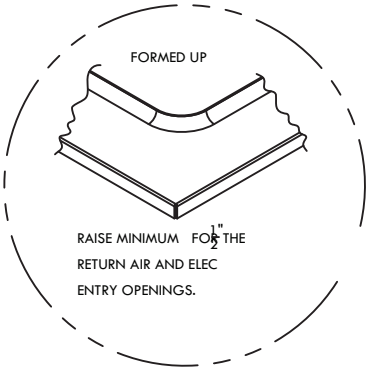
AAON ®

CLEARANCES

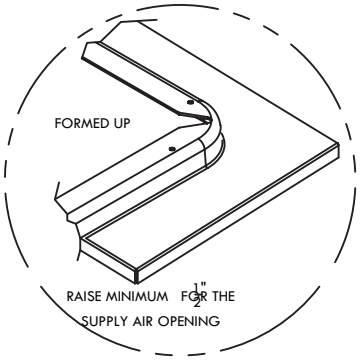
LOCATION	• UNIT SIZE • 9 - 15 TON
OUTSIDE AIR (BACK)	48
CONTROLS SIDE (FRONT)	48
LEFT SIDE	6
RIGHT SIDE	48
TOP	UNOBSTRUCTED



DETAIL A

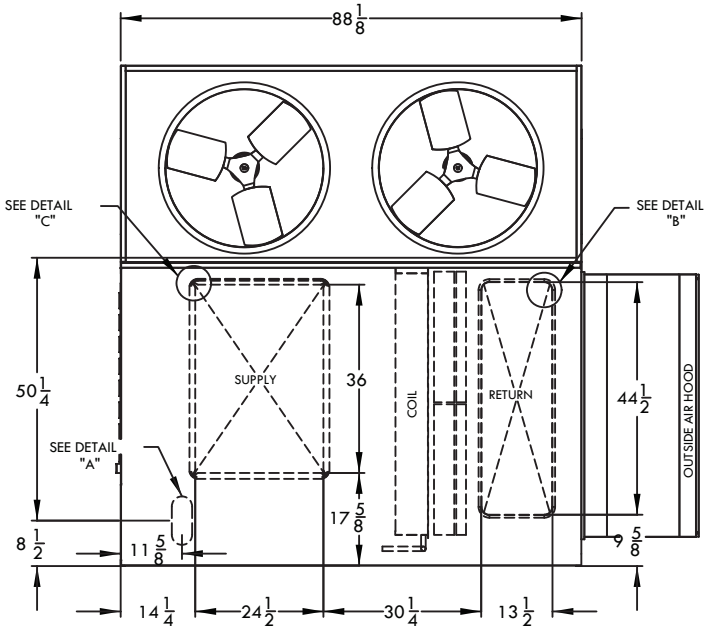


DETAIL B



DETAIL C

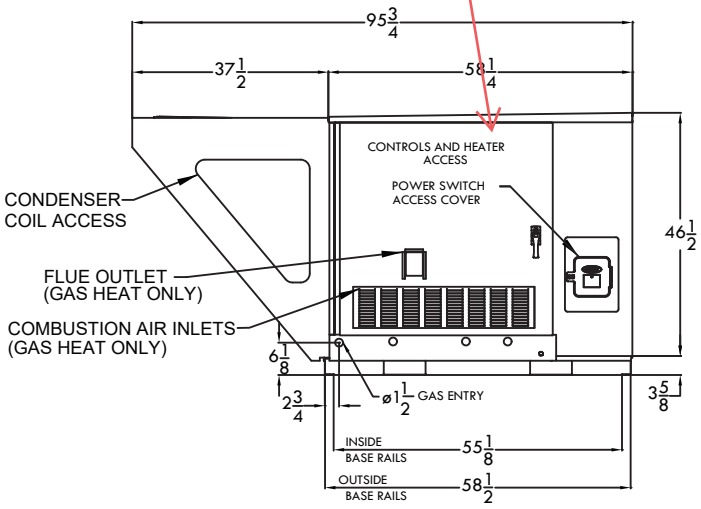
TOP VIEW

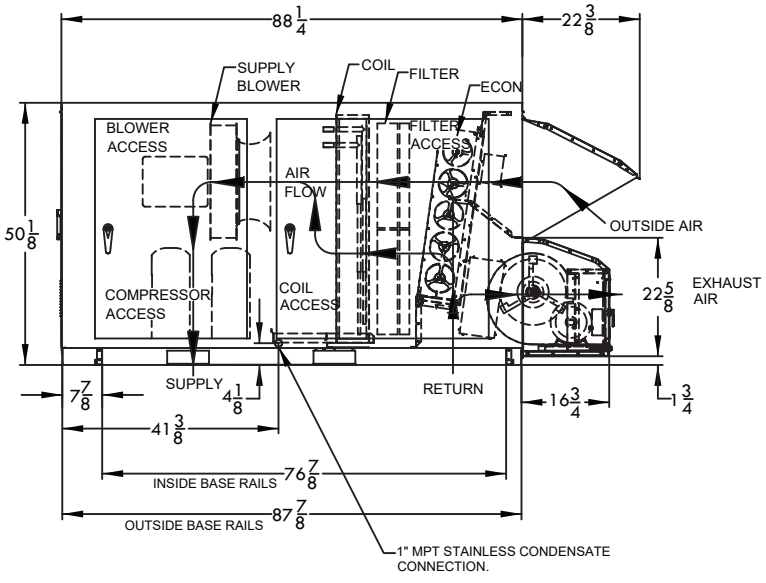


RIGHT SIDE VIEW

Sealed Electrical Compartment

FRONT VIEW

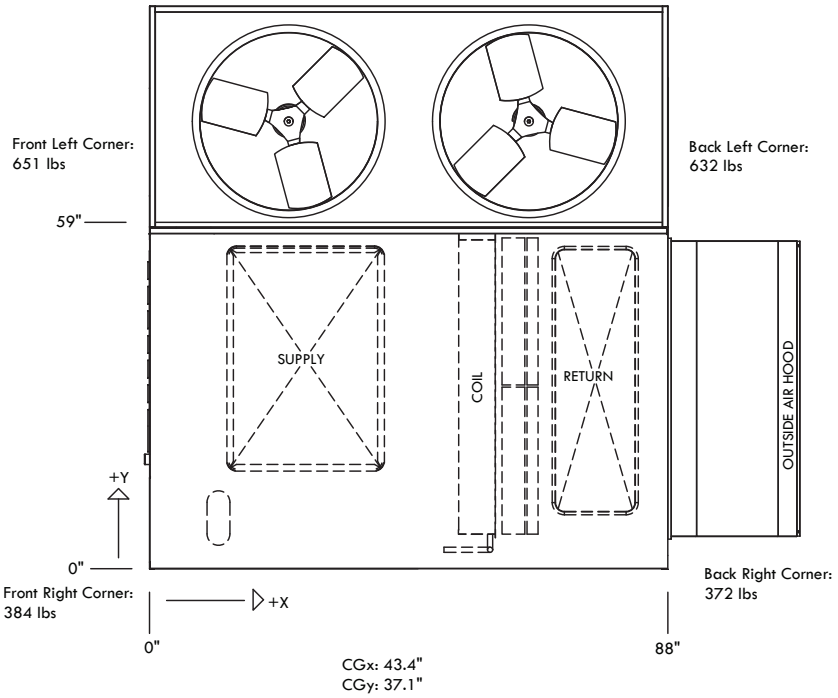




RNB-00003 REV:D 06/18/20 CAR
NOTE: ALL DIMENSIONS ARE IN INCHES

RNB CABINET
AIR COOLED CONDENSING UNIT
WITH POWER EXHAUST

RNA-013-B-A-3-FAAT5-A01N0:00-0FELH-G00-00000-ABGMG-DC-000A-00-Q0-0-AN0-EB-DA0A-00-000-B00B00-G0000B-000000C



Disclaimer:
This weight estimate does not account for any SPAs.

Unit Rating

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	1	2	3A	3B	3C	3D	3E	4A	4B	4C	5A	5B	5C	5D	5E	6A	6B	6C	6D	6E	7	8	9A	9B	9C
R	N	A	-	0	1	3	-	B	-	A	-	3	-	F	A	A	T	5	-	A	0	1	N	0	:	0	0	-	0	F	E	L	H	-
G	0	0	-	0	0	0	0	0	-	A	B	G	M	G	-	D	C	-	0	0	0													
A	-	0	0	-	Q	0	-	0	-	A	N	0	-	E	B	-	D	A	0	A	-	0	0	-	0	0	0	-	B	0	0	B	0	0
-	G	0	0	0	0	B	-	0	0	0	0	0	0	C																				

9D	10A	10B	11A	11B	12	13A	13B	13C	14	15	16A	16B	16C	16D	17A	17B	18A	18B	18C	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37

Tag: PAC_ J02

Job Information

Job Name:	*Bentonville WRRF*
Job Number:	*Bentonville WRRF*
Site Altitude:	*1266*
Refrigerant:	*R-454B*
Design System Charge (oz):	*176 / 334*

Unit Information

Approx. Op./Ship Weights:	*2039 lbs / 2039 lbs (±5%)*
Ambient Temperature (DB/WB):	*102.0 °F / 75.0 °F*
Coil Filter FV / Qty:	*288.0 fpm / 4*
Min. Room Area/Height/Airflow**:	*314 ft² / 7 ft / 565 SCFM*
Exhaust Airflow/ESP/TSP:	*4000 SCFM / 0.10 in. w.g. / 0.36 in. w.g.*
Outside Air Prefilter FV / Qty:	*117.7 fpm / 1*
Supply Airflow/ESP:	*4000 SCFM / 0.73 in. w.g.*
Outside Airflow:	*400 SCFM*
Return Airflow/ESP:	*4188 SCFM / 0.10 in. w.g.*
Return Temperature (DB/WB):	*79.4 °F / 63.0 °F*

Static Pressure

External:	*0.73 in. w.g.*
Cooling Coil:	*0.21 in. w.g.*
Filters Clean:	*0.11 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*
Reheat Coil:	*0.04 in. w.g.*

Economizer:	*0.27 in. w.g.*
Heater:	*0.02 in. w.g.*
Cabinet:	*0.21 in. w.g.*
Total:	*1.93 in. w.g.*

Cooling Section

	Gross	Net
Total Capacity:	*146.6 MBH*	*141.3 MBH*
Sensible Capacity:	*122.7 MBH*	*117.3 MBH*
Latent Capacity:	*23.9 MBH*	
Mixed Air Temp (DB/WB):	*81.7 °F / 64.4 °F*	
Entering Air Temp (DB/WB):	*81.7 °F / 64.4 °F*	
Lv Air Temp (Coil) (DB/WB):	*51.5 °F / 51.0 °F*	
Lv Air Temp (Unit) (DB/WB):	*52.8 °F / 51.6 °F*	

Supply Air Fan:	*1 x 220D70 @ 1.89 BHP Ea.*
SA Fan RPM / Width:	*1419 RPM / 3.450 in*
SA Fan FEI:	*1.36*
Exhaust Air Fan:	*1 x RM12X9X2-RN @ 1.01 BHP Ea.*
EA Fan RPM / Width:	*797 RPM /*
EA Fan FEI:	*0.81*
Evaporator Coil:	*14.6 ft² / 4 Rows / 14 FPI*
Evaporator Face Velocity:	*274.3 fpm*

Heating Section

Preheat Type:	*Std (No Preheat)*
Auxiliary Heating Type:	*Electric Heat*
Heating Airflow:	*4000 SCFM*
Total Capacity:	*20.0 kW*
Entering Air Temp (DB/WB):	*69.0 °F / 58.4 °F*
Leaving Air Temp (DB/WB):	*85.3 °F / 64.1 °F*
Electric Heat FLA:	*24.1*

Re-heat Coil:

Capacity:	*90.3 MBH*
Leaving Air Temp (DB/WB):	*73.7 °F / 59.7 °F*
Relative Humidity:	*44.3%*

Rating Information

Listing Model	*RN-013-3-0-FAAY-S0-21-000-A*
Cooling Capacity:	*144.0 MBH*
Cooling EER:	*11.56 BTU/h·W*
Cooling IEER:	*15.88 BTU/h·W*

**Rated in accordance with AHRI Standard 340/360 (I-P)*

Application EER @ Op. Conditions: ***9.5 BTU/h·W***

Electrical Data

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Ecat Price Version: 364.1

Circuit 1

Rating:	*460V/3Ø/60Hz*	*Minimum Circuit Amp:*	*44*
Unit FLA:	*37*	*Maximum Overcurrent:*	*45*
SCCR:	*10 KAIC*		

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	2		460	3			9.5
Condenser Fan:	2	1.00	460	1	1100	3.6	
Supply Fan:	1	5.00	460	3	1760	7.6	
Exhaust Fan:	1	2.00	460	3	1760	3.4	

Cabinet Sound Power Levels*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW (dB):	89	88	91	82	75	73	71	65
Return LW (dB):	85	80	81	69	67	63	59	49

**Sound data is generated by a propriety acoustics model validated through unit testing in accordance with AHRI 260, utilizing tested fan sound data in accordance with AMCA 300.*

*****The minimum floor area is based on the Lower Flammability Limit (LFL) and calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.***

22" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

JOB INFORMATION:

Job Name	*Bentonville WRRF*
Job Tag	*PAC_ J02*
Date	*3/9/2026 4:30:22 PM*

WHEEL SPECIFICATION:

Max RPM	*2200*
Diameter x Qty	*22 in. x 1*
CFM	*4000*
Inertia	*5 WR²*

OPERATING CONDITIONS

Airflow	*4000*
Fan Energy Index (FEI)	*1.36*
Static Pressure	*1.93 in. w.g.*
Relief Dampers DP	*0.00 in. w.g.*
TSP	*2.02 in. w.g.*
Site Altitude	*1266*

MOTOR SELECTION

Rated HP / Bypass	*5 x 1 / No*
Frame Size	*184T*
Nominal RPM	*1760*
VAC/PH/Hz	*460V/3Ø/60Hz*
Enclosure Type	*TEFC*
Max Inertial Load	*0 WR²*

FAN PERFORMANCE:

RPM	*1419*
BHP	*1.89*
Efficiency	*64.4%*
Max Duct SP with Blocked Airway	*0.00 in. w.g. @ 1419 RPM*

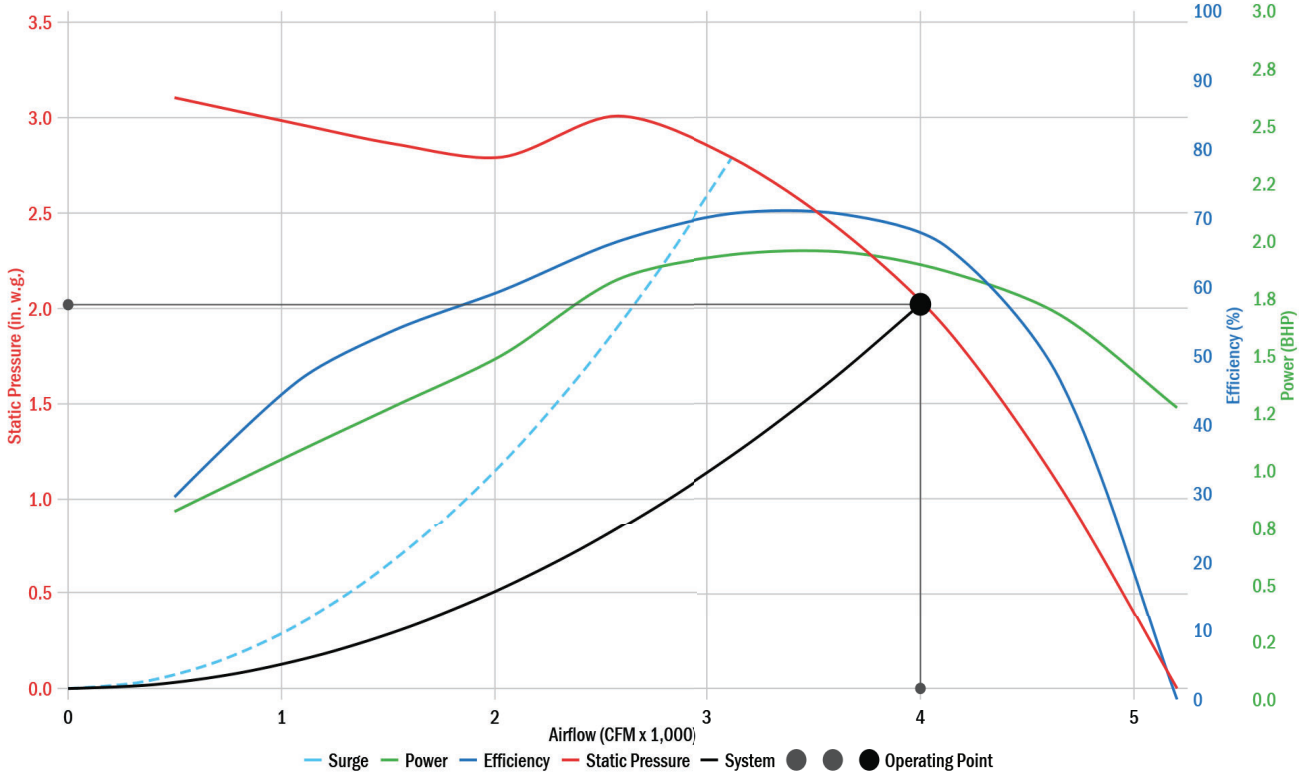
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
89	88	91	83	78	76	74	68
89	88	91	83	78	76	74	68

SOUND POWER A-Weighted: 90 dB

Supply Fan Model: 220D70 @ 1,419 RPM and 100% Width
Design Conditions: 4,000 CFM @ 2.02 in. w.g. SP



RM12X9X2 FC Fan

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

JOB INFORMATION:

Job Name	*Bentonville WRRF*
Job Tag	*PAC_ J02*
Date	*3/9/2026 4:30:22 PM*

WHEEL SPECIFICATION:

Max RPM	*1440*
Diameter x Qty	*11 in. x 1*
CFM	*4000*
Inertia	*3 WR²*

OPERATING CONDITIONS

Airflow	*4000*
Fan Energy Index (FEI)	*0.81*
Static Pressure	*0.36 in. w.g.*
Relief Dampers DP	*0.00 in. w.g.*
TSP	*0.38 in. w.g.*
Site Altitude	*1266*

MOTOR SELECTION

Rated HP / Bypass	*2 x 1 / No*
Frame Size	*145T*
Nominal RPM	*1760*
VAC/PH/Hz	*460V/3Ø/60Hz*
Enclosure Type	*TEFC*
Max Inertial Load	*0 WR²*

FAN PERFORMANCE

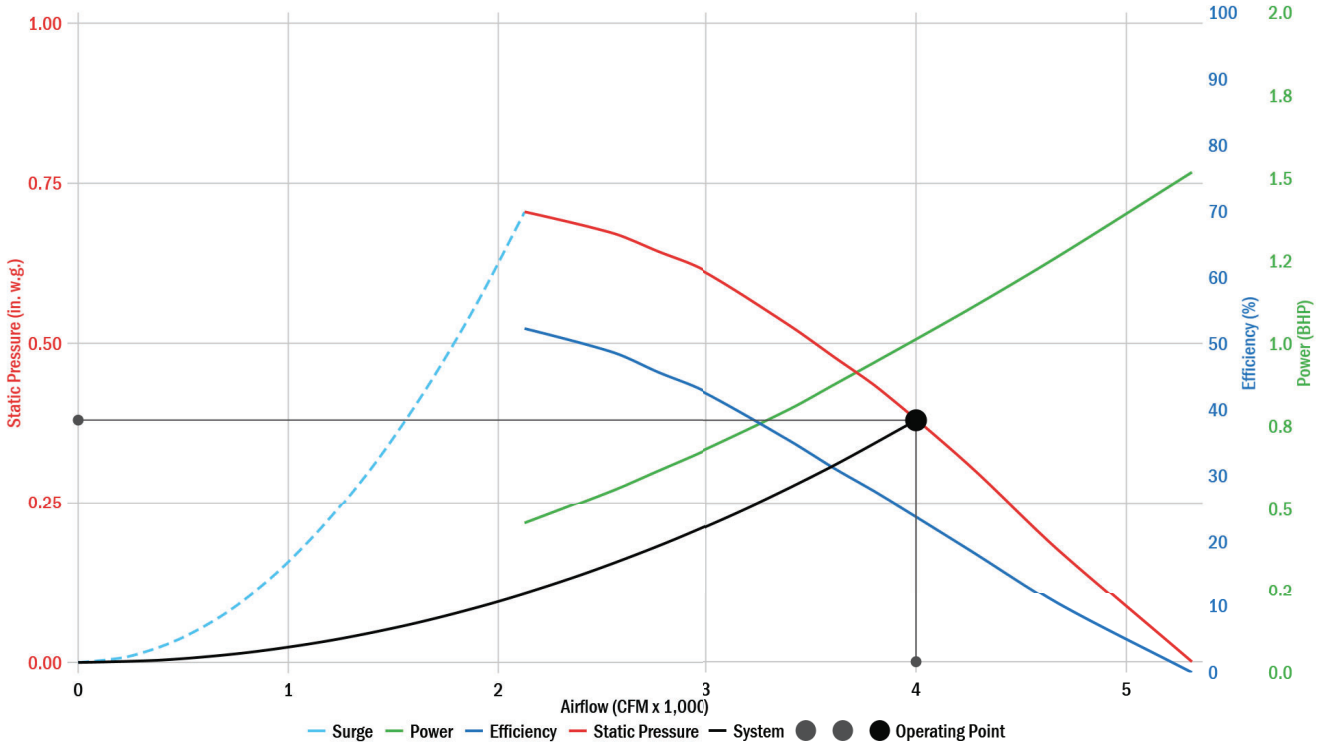
RPM	*797*
BHP	*1.01*
Efficiency	*22.5%*
Max Duct SP with Blocked Airway	*0.00 in. w.g. @ 797 RPM*

FAN SOUND POWER (Inlet/Outlet)

Octave Band:				**(Re 10^-12 watts)**			
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
82	74	66	67	61	56	51	46
82	74	66	67	61	56	51	46

SOUND POWER A-Weighted: 82 dB

Exhaust Fan Model: RM12X9X2 @ 797 RPM and 100% Width
Design Conditions: 4,000 CFM @ 0.38 in. w.g. SP



Unit Submittal

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 364.1

A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 1 2 3A 3B 3C 3D 3E 4A 4B 4C 5A 5B 5C 5D 5E 6A 6B 6C 6D 6E 7 8 9A 9B 9C

RNA-013-B-A-3-FAAT5-A01N0:00-0FELH-G00-00000-ABGMG-DC-000
A-00-Q0-0-AN0-EB-DA0A-00-000-B00B00-G0000B-000000C

9D 10A 10B 11A 11B 12 13A 13B 13C 14 15 16A 16B 16C 16D 17A 17B 18A 18B 18C 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

Tag: *PAC_ J02*

Job Name:	*Bentonville WRRF*	**Unit Worksheet For:**	
Job Number:	*Bentonville WRRF*	**Unit Worksheet Date:**	*3/17/2026*

	Base Option	Description
RN	Generation	RN Series
A	Major Revision	Major Revision A
013	Unit Size	Thirteen
B	Series	B Series
A	Minor Revision	Minor Revision A
3	Voltage	460V/3φ/60Hz
F	Compressor Style	R-454B Two-Step Scroll Compressor
A	Condenser Style	Microchannel Air-Cooled Condenser
A	Indoor Coil Configuration	Standard Evaporator
T	Cooling Heat Exchanger Construction	Stainless Steel Evap. Coil Casing + Polymer E-Coated Evap. And Cond. Coils
5	Cooling Staging	5 Stage
A	Heat Type	Electric Heat (Vertical Unit Configuration)
0	Heat Construction	Standard
1	Heat Designation	20 kW
N	Heat Staging	Modulating SCR Electric - Temperature Control
0	Heat Pump Auxiliary Heating	No Auxiliary Heat

	Feature Option		Description
0	**F1.**	Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	**F2.**	Supply & Return Locations	Bottom Supply--Bottom Return
0	**F3A.**	Supply Fan Quantity	1 Fan
F	**F3B.**	Supply Fan Configuration	1 Fan per VFD + Narrow Width Fan
E	**F3C.**	Supply Fan Size	22" Direct Drive Backward Curved Aluminum
L	**F3D.**	Supply Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
H	**F3E.**	Supply Fan Motor Size	5 hp
G	**F4A.**	Outside Air Section	Economizer + Power Exhaust
0	**F4B.**	Energy Recovery Type	No Energy Recovery
0	**F4C.**	Energy Recovery Size	No Energy Recovery
0	**F5A.**	Return Fan Quantity	0 Return Fans
0	**F5B.**	Return Fan Configuration	No Return Fan
0	**F5C.**	Return Fan Size	No Return Fan
0	**F5D.**	Return Fan Motor Type	No Return Fan
0	**F5E.**	Return Fan Motor Size	No Return Fan
A	**F6A.**	Exhaust Fan Quantity	1 Fan
B	**F6B.**	Exhaust Fan Configuration	1 Fan per VFD + Full Width Fan
G	**F6C.**	Exhaust Fan Size	12x9 Forward Curved
M	**F6D.**	Exhaust Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
G	**F6E.**	Exhaust Fan Motor Size	2 hp
D	**F7.**	Outside Air Control	Fully Modulating Actuator - Enthalpy Limit
C	**F8.**	Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	**F9A.**	Unit Filter Type	2" Pleated - MERV 8
0	**F9B.**	Unit Filter Size & Location	Standard Filters in Standard Position
0	**F9C.**	Final Filter Type	No Final Filters
A	**F9D.**	Filter Options	Clogged Filter Switch - Unit Filters
0	**F10A.**	Refrigeration Control A	Standard - Adj Comp. Cooling Lock Out Through Unit Controls

	Feature Option		Description
0	F10B.	Refrigeration Control B	Standard
Q	F11A.	Refrigeration Options A	MHGR-MC - Polymer E-Coated
0	F11B.	Refrigeration Options B	Standard Packaged Unit
0	F12.	Refrigeration Accessories	None
A	F13A.	Unit Disconnect Type	Single Point Power - Non-fused Disconnect Power Switch
N	F13B.	Disconnect 1 Size	100 Amps
0	F13C.	Disconnect 2 Size	Standard - None
E	F14.	Safety Options	Remote Safety Shutdown Terminals
B	F15.	Electrical Accessories	Phase & Brown Out Protection
D	F16A.	Control Sequence	VAV Unit Controller - VAV Cool + CAV Heat
A	F16B.	Control Supplier	AAON Controls
0	F16C.	Control Supplier Options	None
A	F16D.	BMS Connection & Diagnostics	BACnet IP or MSTP
0	F17A.	Preheat Configuration	Standard - None
0	F17B.	Preheat Sizing	Standard - None
0	F18A.	Option Box Location	None
0	F18B.	Option Box Size	None
0	F18C.	Option Box Accessories	None
B	F19.	Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20.	Cabinet Options	Standard - None
0	F21.	Accessories	Standard
B	F22.	Maintenance Accessories	Field Wired 115V Convenience Outlet
0	F23.	Code Options	Standard - ETL U.S.A. Listing
0	F24.	Shipping Splits	Standard
G	F25.	Air-Cooled Condenser Accessories	Cond Coil Guards + ECM Condenser Fan Head Pressure Control
0	F26.	Evap-Cooled Condenser Accessories	Standard
0	F27.	Water-Cooled Condenser Accessories	None
0	F28.	Energy Recovery Accessories	None
0	F29.	VFD Options	Standard
B	F30.	Miscellaneous Options	SCCR (10kA)
0	F31.	Blank	Standard
0	F32.	Blank	Standard
0	F33.	Blank	Standard
0	F34.	Blank	Standard
0	F35.	Warranty	Standard Warranty
0	F36.	Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
C	F37.	Specials & Paint	Premium AAON Gray Paint Exterior Paint + Interior Corrosion Protection

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                                                A1 A2 A3 A4 A5  B1 B2 B3 B4 B5  1  2  3A 3B 3C 3D 3E  4A 4B 4C  5A 5B 5C 5D 5E  6A 6B 6C 6D 6E  7  8  9A 9B 9C
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```

Tag: PAC_ J02

Job Name:	Bentonville WRRF	For:	
Job Number:	Bentonville WRRF	Date:	March 17, 2026

Part#	Included Parts	Assigned Channel	BACnet Point
ASM07503	VCCX-454 CONTROLLER		
ASM01692	OSA Temp/Hum Sensor	EBUS2 Communicating Sensor	AI:16,AI:17,AI:18,AI:19
R82890	Supply Temp Sensor - Field Installed	VCCX Control Point AI3	AI:9
ASM01820	Space Digital Temp/Hum Sensor - Field Installed	EBUS3 Communicating Sensor	AI:12,AI:13
R82890	Return Temp Sensor	VCCX Control Point AI4	AI:14
ASM01832	Building Pressure Sensor - Field Installed	VCCX Control Point AI5	AI:23
ASM01640	Duct Static Pressure Sensor - Field Installed	VCCX Control Point AI8	AI:21
	Supply Fan Control Signal 0-10VDC	VCCX Control Point AO1	AI:22
	Economizer	VCCX Control Point AO2	AI:30
	Modulated Heating (0-10VDC)	VCCX Control Point AO3	AI:35
	Building Pressure Control Signal	VCCX Control Point AO4	AI:24
R62330	Proof of Air Flow	VCCX Control Point BI1	BI:6, BI:24
G150620	Clogged Filter Switch (Standard Filters)	VCCX Control Point BI2	BI:25
	A2L Airstream Leak Detect Status	VCCX Control Point BI5	BI:9
	Safety Shut Down	VCCX Control Point BI8	BI:26
	Supply Fan	Configured Relay Point	BI:0
	Exhaust Fan	Configured Relay Point	BI:1
	Heat 1	Configured Relay Point	BI:2
	Morning Warm-Up	Configured Relay Point	BI:3
ASM07563	A2L MITIGATION BOARD 1		
G137750	Gas Sensor 1	A2L MB1 AI1	
	Supply Fan Proof of Flow	A2L MB1 BI1	
	Alarm Output	A2L MB1 Fixed RO3	
ASM07716	REFRIGERATION MODULE		
V38391	Suction Pressure Sensor A	RM454-D SP-1	AI:48
V38410	Discharge Pressure Sensor A	RM454-D HP-1	AI:50
V38391	Suction Pressure Sensor B	RM454-D SP-2	AI:73
V38410	Discharge Pressure Sensor B	RM454-D HP-2	AI:75
	Modulated Condenser Signal A	RM454-D AOUT1	AI:46
	Modulated Condenser Signal B	RM454-D AOUT2	AI:47
	Comp Status Input A	RM454-D BIN1	BI:77
	Comp Status Input B	RM454-D BIN2	BI:78
	Emergency Shutdown	RM454-D BIN4	BI:83
	Comp Enable A1	RM454-D RLY1	BI:84
	Comp Enable B1	RM454-D RLY2	BI:85
	Comp Load Signal A2	RM454-D COMP1	AI:44
	Comp Load Signal B2	RM454-D COMP2	AI:45
ASM01670	MODULATING HOT GAS REHEAT MODULE		

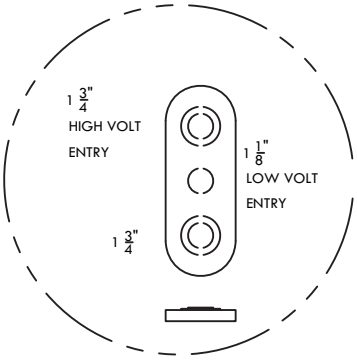
Reheat HGR Valve	MHGRV-X	AI:42

RNB 9-15 TON ECON, POWER EXHAUST

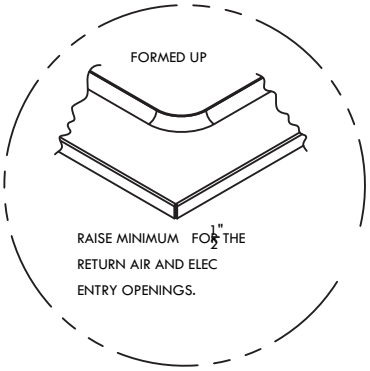
AAON ®

CLEARANCES

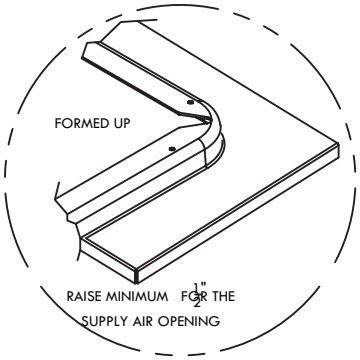
LOCATION	• UNIT SIZE • 9 - 15 TON
OUTSIDE AIR (BACK)	48
CONTROLS SIDE (FRONT)	48
LEFT SIDE	6
RIGHT SIDE	48
TOP	UNOBSTRUCTED



DETAIL A

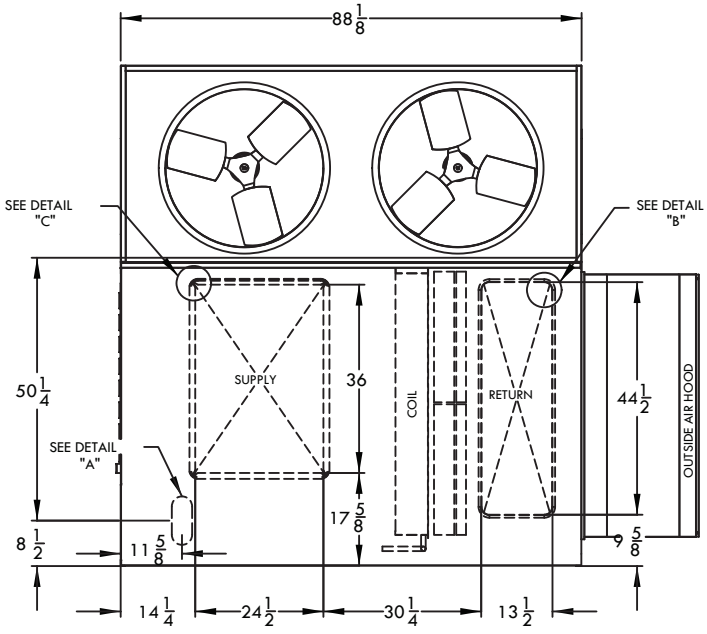


DETAIL B



DETAIL C

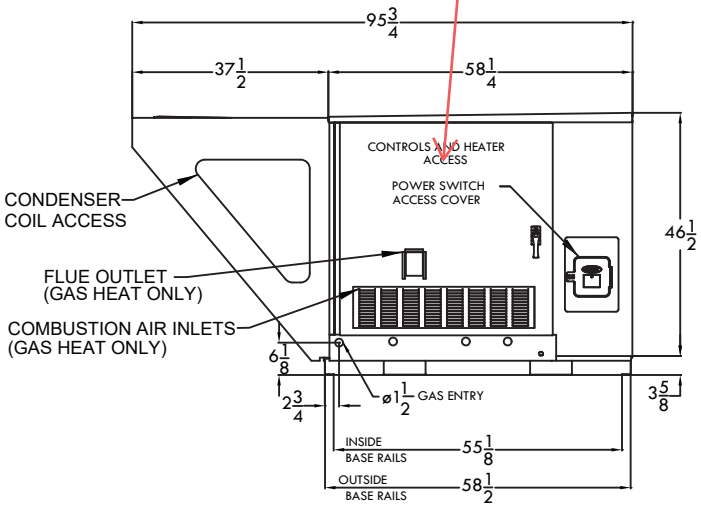
TOP VIEW

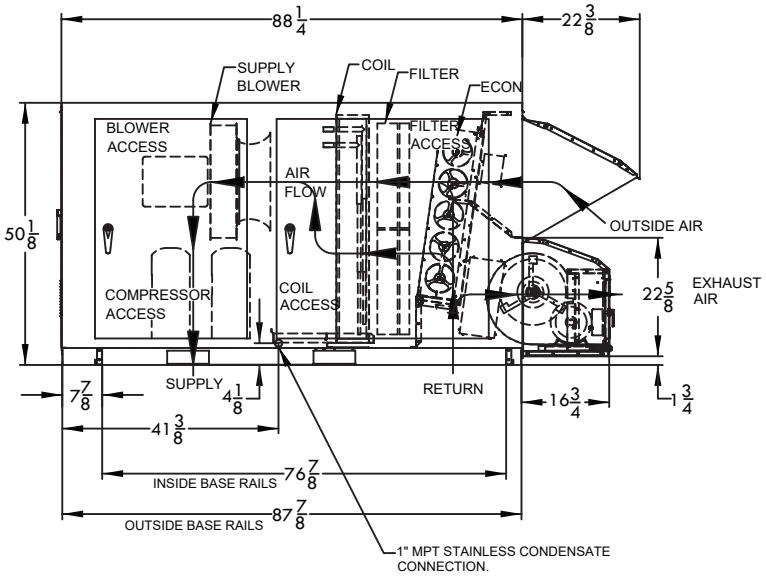


RIGHT SIDE VIEW

Sealed Electrical Compartment

FRONT VIEW

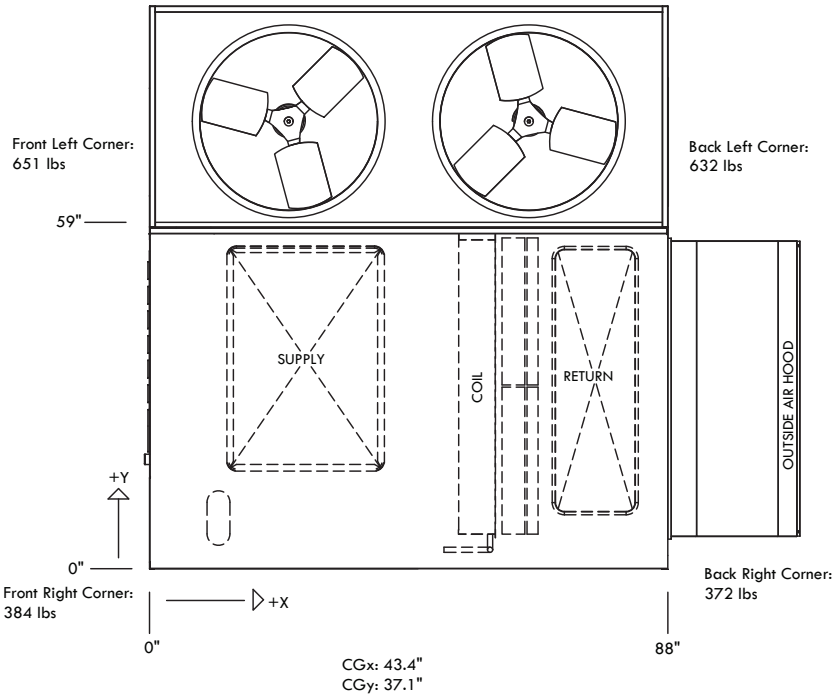




RNB-00003 REV:D 06/18/20 CAR
NOTE: ALL DIMENSIONS ARE IN INCHES

RNB CABINET
AIR COOLED CONDENSING UNIT
WITH POWER EXHAUST

RNA-013-B-A-3-FAAT5-A01N0:00-0FELH-G00-00000-ABGMG-DC-000A-00-Q0-0-AN0-EB-DA0A-00-000-B00B00-G0000B-000000C



Disclaimer:
This weight estimate does not account for any SPAs.

Heresite P-413

Our 50 years of coating history speaks for itself.

In 1964, Heresite was the first company to apply coatings to aluminum-finned, copper-tubed heat exchangers. The Heresite coating became then, and still remains a standard in the industrial coatings industry. We provide the highest quality protective coatings for air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. Our phenolic epoxy has an advantage of dense cross linking and can therefore be applied as a very thin film maintaining stable heat transfer.

We continue our focus on innovation and again have a new story to tell, as we introduce our updated P-413

- A high performance phenolic epoxy coating developed specifically for heat exchangers.
- The flexibility and corrosion resistance of Heresite P-413 appreciably increases the service life of your heat exchange equipment.
- It is specially suited for coating light gauge metals in equipment operating in severe corrosive environments.

P-413 Specifications

The coil will receive a uniform coating on all surfaces, including fin edges, with P-413, a thermoset, modified phenolic coating. Application of P-413 will be through multiple coats by immersion or flow coating to a film thickness of approximately 1.0 mil.

P-413 provides corrosion protection in a 6,000 hour salt spray test in accordance with ASTM B-117 and humidity resistance of >2,000 hours per ASTM D2247. Chemical resistance is demonstrated via 100+ acetone double-rubs per ASTM 5402. P-413 also exhibits superior hardness of 5–6H per ASTM D3363, adhesion of 5B per ASTM B3359 and impact resistance of 160 in/lbs (ASTM D2794). Color shall be brown with gloss of 20–60 — 60 degree. If the coils are to be subjected to direct ultraviolet (UV) exposure, a spray-applied UV-resistant topcoat is an option.

Effective date: 10/09/17

P-413 Typical Properties (@ 1 mil DFT)

Salt Spray: ASTM B-117: 6,000+ hours

SWAAT: ASTM G85-11 Section A.3: Passed 1,000 hours using pressurized coil (see page 2 for results)

Cyclic Weathering: ISO 20340 Offshore Standard: Passed (4,200 hours)

Performance Testing: ISO 12944-6 C5 I/M: Passed C5-M high durability and C5-I high durability

Heat Transfer Reduction: <1% as applied for heat transfer components

Humidity: ASTM D-2247: 2,000+ hours

Simulated Sea Water Resistance: 2,000 hours

Solvent Resistance: ASTM-D5402: 100 acetone double rubs

Cross-hatch Adhesion: ASTM D-3359: 5B

Mandrel: ASTM-D522: >1/4 inch

Impact: ASTM D-2794: 160 lb/inch steel; 40 lb/inch aluminum

pH Range (14 day liquid spot test): 2.4–12.6

Temperature Cycling (4 hours at –75°C; 4 hours at 190°C): 4B–5B adhesion after 5 cycles

Dry Heat Resistance (4 hours at 200°C; 20 minutes at 232°C): 4B–5B adhesion after 5 cycles

Dry Film Thickness: ~1 mils

Hardness: ASTM D3363: 5–6H

Gloss: 20–60 on 60 degree meter (topcoat dependent)

Microchannel Compatible

Abrasion Resistance: 30–40 mg loss per 1,000 cycles

Meets FDA 175.300 for indirect food contact

Meets MIL Spec: MIL-C-18467, MIL-E-480 and MIL-STD-883 Method 1101

Meets Other Specs: Honeywell MC 7200-01 and GE F50T17

Thermal Conductivity: At approximately 2 mils thickness, Thermal Conductivity is less than 1.0 w/mK

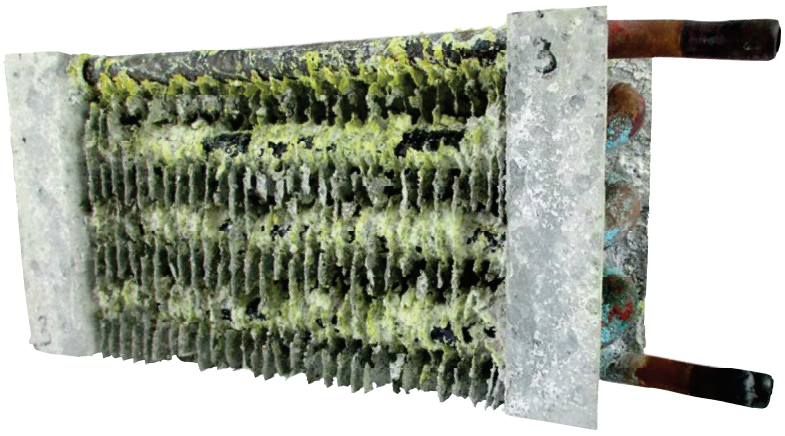
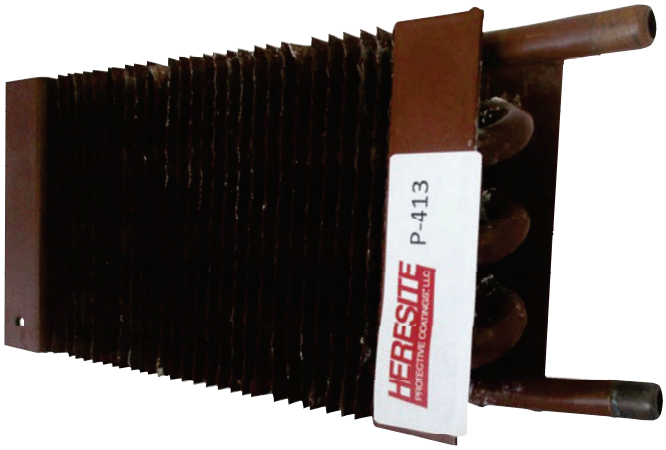
Dielectric Strength [ISO2376:2010(e)]: 286 volts per mil of thickness

NSF Certified – ANSI 51 Certification of Coatings for Food Zone – Non Contact

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HERESITE® PROTECTIVE COATINGS, LLC

SWAAT Results

	**Bare 1,000 hour SWAAT**
	**P-413 1,000 hour SWAAT**
	**P-413 + topcoat 1,000 hour SWAAT**

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Product Description
Baking cross-linked phenolic epoxy

Recommended Uses
Heresite P-413 is a high performance coating used principally for heat transfer components and parts — especially air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. This phenolic epoxy has an advantage of dense cross linking and are therefore highly corrosion resistant even when applied as a very thin film.

Chemical Resistance
P-413 is chemically resistant to a wide range of acids, solvents, and inorganic salts. Please review chemical resistance guide for further information.

Packaging Information
P-413 is available in one gallon, five gallon and 54 gallon drum quantities.

Thinners and Cleanup
Recommended use of Heresite S-275.

Storage Conditions
Coating should not be stored longer than 6 months. Coating should be stored in a clean, dry environment at 50–75°F. Keep out of direct sunlight. Avoid excessive heat and keep from freezing.

Physical Properties
Solids by weight: Approximately 73%

Solids by volume: Approximately 57%

Pot life: NA

Mixing Ratio by Volume: NA 1 component

Shelf life: 6 months

Color: Brown

VOC Content
2.25 lbs/gal (270 g/L) as supplied

Film Thickness
For heat transfer, a 2 coat immersion process will typically yield a dry film thickness of 1.0–2.0 mils (25–50 microns).

For other parts, please contact Heresite.

Coverage
Theoretical coverage is 800 square feet per gallon per dry mil. Coverage rates are estimates and make no allowance for material loss. Actual rates will vary dependent on application method, surfaces, etc.

Surface Preparation
All surfaces must be clean, sound, and free of any oils, dirt, grease, wax and any other contamination that may interfere with coating adhesion.

In general, the surface should be cleaned by solvent or a cleaner at elevated temperature followed by a clean water rinse. Rinse water shall have a conductivity of lower than 500 microsiemens and a neutral pH (7.0–8.0). All surfaces must be dried prior to application of coating.

In cases where there is a large amount of contamination or heat treated steel, a commercial blast is acceptable in accordance with NACE #3 or SSPC-SP-6-63 specifications. Surface profile or anchor pattern shall be 20–25% of the recommended dry film thickness.

Thinning
Reduce P-413 with S-275 solvent to 13–13.5 seconds on ISO Dip 3 mm Cup. This requires approximately a 1:1 dilution by volume.

The amount of thinner required is dependent upon temperature, ventilation, humidity, application type and desired film thickness.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Application

Application is specific to heat transfer components, for other parts — please contact Heresite.

Immersion Application:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Consult Heresite for tank and pump recommendations.
4. Ensure as the part is prepared for immersion, one will have a low point for drainage.
5. Immerse the cleaned part for 15 seconds in the reduced P-413.
6. Upon removal of the part from the coating, apply light air pressure (approximately 15 psi) using an Air Knife or similar device to spread the air flow. Using the compressed air, remove excess coating. Minimal brushing should be required.
7. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
8. Typically, a two coat immersion process is required to achieve 1.0 to 1.5 mil DFT. An intermediate bake is required between coats — see baking schedule.
9. It may be deemed desirable to apply a final aesthetic spray. This can be accomplished immediately after the final immersion is accomplished and prior to final bake.
10. During immersion application, the viscosity must be maintained and monitored. It is recommended that the viscosity be checked every hour to ensure compliance with the specification of 13–13.5 seconds. Additional solvent and coating can be added to adjust viscosity as needed.

Spray Application for Final Aesthetic Spray:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective.
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Typically, a one coat process is required to achieve 0.5 to 1.0 mil DFT.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Spray Application for Higher Film Build — 4–6 mil:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective (13.0–13.5 seconds ISO Dip 3 mm).
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film. Allow a minimum of 10 minutes to allow the slow solvents to evaporate. Then apply another 2–3 crisscross multi-passes.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Intermediate bake at 130°C (metal temperature) for a minimum of 10 minutes.
12. Repeat steps 7–10.
13. Final bake per the instructions within the bake schedule.
14. Typically, a two to three coat process is required to achieve 4.0 to 6.0 mil DFT.

Bake Schedule

Intermediate Bake:

1. 90°C (metal temperature) for a minimum of 10 minutes.
   a. To decrease the bake time, a maximum temperature of 130°C may be used.

Final Bake:

1. "Normal" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 15 minutes, then increased to 190°C. 190°C (metal temperature) held for 45 minutes.
2. "Soft Solder" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 130 minutes.

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKERS MUST WEAR FRESH AIR LINE RESPIRATORS. PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMERS SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESS OR IMPLIES, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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HERESITE® PROTECTIVE COATINGS, LLC

HERESITE

PROTECTIVE COATINGS®
LLC

Chemical Resistance Guide

Test data for the products published in this guide are determined by immersion of a coated panel in the chemical being tested. Additional information on the coating's resistance is achieved through the coating's history in actual service environments.

Temperature and concentration data are not necessarily the maximum operating conditions. They are the temperature and concentrations at which the specified coating system has been tested. The coating system may be suitable for higher temperatures and different concentrations but additional information or testing would be required.

Date: May 2019
(supersedes all previous copies)

To the best of our knowledge, the technical data contained herein is true and accurate at the date of insurance and are subject to change without prior notice. User must contact laboratory to verify corrections before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance, or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost are subject to change without prior notice. **NO OTHER GUARANTEE OF ANY KIND IS MADE BY SELLER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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HERESITE PROTECTIVE COATINGS, LLC

Key to the Guide

A	Coating is resistant, for continuous immersion, against attack from the chemical listed
B	Coating is resistant against attack from fumes of the chemical listed. For immersion service of the chemical please refer to a coating with an **A** or **LR** listed or contact Heresite Protective Coatings.
C	Coating will provide the necessary 72 hours resistance required for secondary containment. Coatings are not recommended for continuous immersion.
LR	Limited Recommendation, contact Heresite Protective Coatings, Inc. for assistance.
NR	Coating is not recommended for the service conditions.
Blank	Coating has insufficient test data for the service conditions.

Coatings are continuously being tested in a wide rage of service conditions. If you condition is not among the ones listed contact Heresite Protective Coatings at 920-684-6646 for assistance.

Coatings Included in This Guide

P-403L	High bake phenolic. P-403L offers excellent resistance to solvents, acids and salts, including 70-98% sulfuric acid at tmperatures up to 120F.
P-403L/L-66L	High gloss phenolic system designed for use when abrasion and release properties are required. This system utilizes P-403L as the primer and L-66L as the topcoat.
EP-6379	Baked epoxy phenolic. EP-6379 is resistant to a wide range of pH environments found in fume control devices, chemical, drill, process pipes and is also used in storage and ISO tanks.
P-413	Modified baked phenolic designed for HVAC equipment and light gauge metal. In addition to marine and salt air environments, the P-413 family of coatings will withstand exposure to an extensive variety of corrosive and chemical fumes and condensate.
VR-514	Air dry phenolic. Excellent for resistance to corrosive fume atmospheres and is particularly good in marine and salt air environments. Typical applications include swimming pools, waste water, marine environments and as a general maintenance coating.
UC-5500 Series	Polyurethane. Formulated as a top coat for other Heresite coatings with outstanding UV resistance with excellent weathering qualities, along with good flexibilit yand good abrasion resistance.

For further information, please contact Heresite Protective Coatings, Inc.

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HERESITE PROTECTIVE COATINGS, LLC

Chemical Synonyms

Common Name	Chemical Name
Alum	Aluminum Sulfate
Barite	Barium Sulfate
Baking Soda	Sodium Bicarbonate
Bleach	Sodium Hypochlorite
Calcite	Calcium Carbonate
Caustic	Sodium Hydroxide
Caustic Potash	Potassium Hydroxide
Chalk	Calcium Carbonate
Cupric, Cuprous	Copper II & Copper I
Dental Gas	Nitrogen I Oxide
Diuretic Salt	Potassium Acetate
Dry Ice	Carbon Dioxide
Epsom Salt	Magnesium Sulfate
Ferric, Ferrous	Iron III & Iron II
Graphite	Carbon

Common Name	Chemical Name
Laughing Gas	Nitrogen I Oxide
Lime	Calcium Oxide
Lye	Sodium Hydroxide
Magnesia	Magnesium Oxide
Methylene Bromide	Methane Dibromide
Methylene Chloride	Methane Dichloride
Muriatic Acid	Hydrochloric Acid
Potash	Potassium Carbonate
Phenol	Carbolic Acid
Phosgene	Carbonyl Chloride
Pyrite	Iron Disulfide
Soda Ash	Sodium Carbonate
Stannic, Stannous	Tin
Sulphate	Sulfate
Table Salt	Sodium Chloride

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Acetaldehyde		60ºF	A			B	NR
Acetaldehyde		100ºF	A			B	NR
Acetic Acid	5%	100ºF	LR			B	
Acetic Acid	10%	70ºF	LR	LR	B	B	NR
Acetic Acid	10%	100ºF	LR	LR	B	B	NR
Acetic Acid	10%	150ºF	B	B	B	B	NR
Acetic Acid	25%	70ºF	LR	LR	LR	B	NR
Acetic Acid	25%	150ºF	B	B	NR	B	NR
Acetic Acid	50%	100ºF	LR	LR	NR	B	NR
Acetic Acid	50%	120ºF	LR	NR	NR	B	NR
Acetic Acid	50%	150ºF	LR	NR	NR	B	NR
Acetic Acid	56%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	120ºF	B	B	NR	B	NR
Acetic Acid	100%	150ºF	B	B	NR	B	NR
Acetic Acid, Glacial		70ºF	B	B		B	
Acetic Acid, Vapors		350ºF	A	A			NR
Acetic Acid100% & ½% Sulfuric Acid		77ºF	B	B			
Acetic Anhydride	100%	70ºF	A	A		B	NR
Acetic Anhydride/ Acetic Acid (50%/50%)		175ºF		NR			
Acetone		70ºF	A	A	A	B	NR
Acetone		100ºF	A	A	B	B	NR
Acetone		134ºF	A	A	B	B	NR
Acetophenone		100ºF	A				
Acetylene		150ºF	A	A		B	B
Acid Copper Bath		150ºF				B	B
Acid-Klenz (Klenzode Products)		100ºF	A				
Acrylamide		100ºF	A				
Acrylic Latex 103-100		150ºF	A	A		B	
Acrylic Syrup		100ºF	A				
Acrylonitrile		70ºF	A	A		B	
Acrylonitrile		171ºF	A	A			
Activated Carbon, Slurry		70ºF	A				
Adipic Acid/Ethyl Alcohol 60%/40%		70ºF	A			B	
Agree® Shampoo	100%	150ºF	A	A	A		
Alcohol Mash (distillery)		210ºF	A	A		B	B
Alcolated Cresol		180ºF	A				
Alkaline Electrotinning		150ºF				B	B
Alkyl Benzene		100ºF	A			B	
Alkyl Chloroformate	100%	68ºF	A			B	
Alkylaryl Sulfonate	2%	70ºF	A	A			

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
Blank:Insuffient Data

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HERESITE PROTECTIVE COATINGS, LLC

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Alkylaryl Sulfonate	2%	100ºF	A	A			
Alkylaryl Sulfonate	100%	100ºF	A	A			
Alkylaryl Sulfonate	100%	151ºF	NR				NR
Allyl Alcohol		100ºF	A	A		B	
Allyl Chloride	100%	68ºF	A	A			
Allyl Gylcidyl Ether		70ºF	A				
Aluminum Acetate	5%	100ºF	A				
Aluminum Chloride	10%	150ºF	B	A		B	B
Aluminum Chloride	11%	120ºF	B	A		B	B
Aluminum Chloride	25%	150ºF				B	B
Aluminum Chloride	100%	70ºF	B	LR		B	B
Aluminum Chloride/Benzene	13%	70ºF	B				
Aluminum Chlorhydrate		120ºF	A	A	A	B	
Aluminum Fluoride	5%	100ºF				B	B
Aluminum Fluoride	5%	150ºF				B	B
Aluminum Nitrate	50%	70ºF	B			B	B
Aluminum Oxide (in Sulfuric Acid)		120ºF	A	A	A	B	
Aluminum Oxide (Trihydrate)		120ºF	A	A	A	B	
Aluminum Sulfate	46½%	70ºF	LR	A	A	B	B
Aluminum Sulfate	46½%	122ºF	LR	LR	A	B	B
Aluminum Sulfate	46½%	200ºF	LR			B	B
Aluminum Sulfate/Copper Sulfate		120ºF	LR	LR	A	B	
Ammonia	10%	100ºF	A			B	B
Ammonia	10%	113ºF	A			B	B
Ammonia, Aqua	29%	100ºF	A			B	NR
Ammonia, Aqua	34%	100ºF	A			B	NR
Ammonium Acetate	25%	150ºF	B	A		B	B
Ammonium Acetate	75%	200ºF		A			
Ammonium Bifluoride		140ºF	A				
Ammonium Carbonate	25%	70ºF	A				
Ammonium Chloride	33%	110ºF	A	A		B	B
Ammonium Diurinate		100ºF	A				
Ammonium Fluoride		150ºF					NR
Ammonium Hydroxide	5%	70ºF	A	A		B	NR
Ammonium Hydroxide	10%	100ºF	LR	LR	NR	B	NR
Ammonium Hydroxide	10%	150ºF	LR	LR	NR		NR
Ammonium Hydroxide	25%	70ºF	A		LR	B	NR
Ammonium Hydroxide	29%	70ºF	A	B		B	
Ammonium Hydroxide	29%	100ºF	A	NR	NR	B	NR
Ammonium Hydroxide	29%	120ºF	B	NR	NR	B	NR
Ammonium Hydroxide	30%	150ºF	B	NR	NR		NR

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Ammonium Lauryl Sulfate	100%	150ºF			NR		
Ammonium Nitrate	50%	70ºF	A	A		B	B
Ammonium Nitrate	50%	212ºF	A	A	B	B	B
Ammonium Nitrate/Urea 42%/32%		100ºF	A				
Ammonium Persulfate	45%	110ºF	B			B	B
Ammonium Phosphate, Monobasic	50%	70ºF	A			B	B
Ammonium Stearate		70ºF	A				
Ammonium Stymer Solution		70ºF	A				
Ammonium Sulfamate		70ºF	A	A			
Ammonium Sulfate, Liquid slurry		70ºF	A			B	B
Ammonium Sulfate, Liquid slurry		200ºF	A				
Ammonium Sulfate/Sodium Sulfate 6%/6%		150ºF	A				
Ammonium Sulfide	40%	100ºF	A		A	B	B
Ammonium Sulfite	50%	70ºF	A				
Ammonium Thiocyanate Solution		100ºF	A			B	B
Ammonium Thiosulfate	60%	100ºF	A	A			
Amyl Acetate	100%	70ºF	A	A		B	
Amyl Acetate	100%	100ºF	A	A	NR	B	B
Amyl Acetate	100%	150ºF	A	A	A	B	
Amyl Alcohol		70ºF	A	A	B	B	
Amyl Alcohol		150ºF	A	A		B	
Aniline		100ºF	A	A		B	B
Aniline Hydrochloride		150ºF				B	B
Aqualum (Altivia)		120ºF	LR	LR	A	B	
Aqua regia		70ºF	NR			NR	NR
Aqueous Ammonium Chloride17% & 4% MeOH		147ºF	A				
Arquad 2HT (Armour®) 75% Active		167ºF	A				
Arquad and Isopropyl Alcohol		158ºF	A				
Ascorbic Acid	10%	150ºF	A	A			
Arsenic Acid	50%	70ºF	LR				NR
Aviation Fuel		70ºF	A	A	A	B	
Boric Acid	100%	210ºF	B	A		B	B
Brake Fluid HD557		150ºF	A				
Brass Plating		150ºF					NR
Brine	6.7%	290ºF	A			B	B
Brine	12.3%	203ºF	A			B	B
Brine	12.3%	250ºF	A			B	B
Brine	29.2%	100ºF	A			B	B
Bromine	100ppm		B	B		B	
Bronze Plating		150ºF					NR
Butadiene		70°F	A			B	B

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Butadiene		150ºF	A			B	B
Butane		70ºF	A	A	A	B	B
Butane		150ºF	A	A	A	B	B
Butene		70ºF	A	A		B	
Butyl Acetate		70ºF	A	A	NR	B	NR
Butyl Acrylate		70ºF	A			B	
Butyl Alcohol	100%	150ºF	A	A	B	B	B
Butyl Cellosolve (Glycol Ether EB)		100ºF	A			B	
Butyl Phenol		210ºF	A				
Butylene		70ºF	A			B	B
1,3-Butylene Glycol		100ºF	A			B	
Butylene Oxide		100ºF	A				
Butyraldehyde	98%	70ºF	A			B	
Butyraldehyde	98%	150ºF	A			B	
Butyric Acid		70ºF	A				
Butyrolactone		70ºF	A	A		B	
Cadmium Cyanide		150ºF					B
Calcium Bisulfate		70ºF				B	B
Calcium Bisulfite		70ºF				B	B
Calcium Bromide	100%	150ºF	A	A	A	B	B
Calcium Carbonate	10%	150ºF	A	A		B	B
Calcium Carbonate	20%	200ºF	A				
Calcium Carbonate	100%	70ºF	A			B	B
Calcium Chloride	50%	70ºF	A	A		B	B
Calcium Chloride	70%	280ºF	A	A		B	B
Calcium Chloride	100%	150ºF	A	A		B	B
Calcium Cyanamide		70ºF	A			B	B
Calcium Cyanide		70ºF				B	B
Calcium Fluoride	25%	150ºF	A			B	
Calcium Hydroxide	50%	150ºF	A			B	B
Calcium Hypochlorite	30ppm	100ºF	A			NR	NR
Calcium Hypochlorite	5%	70ºF	NR			NR	NR
Calcium Lignosulfate	100%	150ºF	A		B		
Calcium Lignosulfate	100%	180ºF	A		NR		
Calcium Nitrate		150ºF				B	B
Calcium Sulfate		150ºF				B	B
Caprylic Acid	100%	70ºF	A	A	A	B	B
Caprylic Acid	100%	150ºF	A	A	B	B	
Caramel Color	100%	100ºF	A	A	A	B	B
Carbon Bisulfide		100ºF	A	A	A	B	NR
Carbon Dioxide		70ºF	A	A		B	B

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Carbon Monoxide		70ºF	A			B	B
Carbon Tetrachloride		70ºF	A	A		B	NR
Carmel		100ºF	A	A			
Casein		70ºF	A			B	B
Cashew Nut Oil		70ºF	A	A		B	B
Castor Oil		70ºF	A			B	B
CAT ® ELC (Extended Life Coolant) Concentrate CATEC-1	100%	70ºF				A	
Caustic Lime (Dehydrated)		150ºF				B	B
Caustic Potassium (Dehydrated)		150ºF				B	B
Cellosolve (Ethyleneglycol Ethylether)		100ºF	A	A		B	NR
Cherry Soda (Concentrate)		70ºF	A				
Chloric Acid	30%	100ºF	A		NR		
Chlorine, Fumes	100ppm	100ºF	B			B	LR
Chlorine, Water	0.40%	70ºF	B			B	LR
Chloral		150ºF	A				NR
Chloroaniline		70ºF	A				
Chlorobenzene (Anhydrous)		100ºF	A				
Chlorobenzene	10%	220ºF		A			
Chloroform	100%	70ºF	A	A		B	NR
Chloroform	100%	144ºF	A	A		B	NR
Chloropicrin		100ºF	A			B	B
Chlorosulfonic Acid	100%	70ºF	B	NR	NR		
Chlorotoluene		194ºF		A			
Chlorowax		100ºF	A				
Chlorox ® (See also Sodium Hypochlorite)	100%	70ºF	NR	NR	NR	NR	NR
Chocolate Syrup		70ºF	A			B	
Choline Chloride	70%	150ºF	A	A	A	B	NR
Chrome Plating Bath		150ºF					NR
Chromic Acid	10%	70ºF	B			B	B
Chromic Acid	20%	100ºF	A				
Chromic Acid	30%	70ºF	B			B	NR
Chromic Acid	50%	70ºF	B			B	NR
Citric Acid	25%	150ºF	LR	LR		B	B
Citric Acid	50%	70ºF	LR	LR		B	B
Citric Acid	50%	150ºF	LR	LR		B	B
Coal Tar		150ºF	A			B	NR
Cobalt Sulfate Solution	pH 6.0	170ºF	A				
Coca Cola Concentrate		70ºF	A	A	A		
Coconut Oil	100%	70ºF	A	A		B	B
Coconut Oil	100%	180ºF	A	A		B	B
Coke Oven Gas		150ºF	A	A		B	

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Collodion Solution		70ºF	A	A			NR
Copper Acetate	50%	70ºF	A			B	
Copper Chloride		70ºF	A			B	B
Copper Cyanide		70ºF	A			B	B
Copper Nitrate		70ºF				B	B
Copper Plating Solution		150ºF				B	B
Copper Sulfate	10%	100ºF	LR	A	B	B	B
Copper Sulfate	10%	120ºF	LR	A	B	B	B
Copper Sulfate	10%	150ºF	LR	B	B	B	B
Copper Sulfate	20%	100ºF	LR	A	A	B	B
Copper Sulfate	20%	120ºF	LR	A	A	B	B
Copper Sulfate	50%	100ºF	LR			B	B
Copper Sulfate	50%	150ºF	LR			B	B
Copper Sulfate (Anhydrous)	100%	140ºF	A	A			
Corn Mash		100ºF	A	A		B	B
Corn Oil (Mazola®)		70ºF	A			B	B
Corn Oil		180ºF	A			B	B
Corn Syrup	100%	70ºF	A	A	A	B	
Corn Syrup	100%	150ºF	A	A	A	B	
Cottonseed Oil		150ºF	A			B	B
Creosote		150ºF	A	A		B	NR
Cresol	100%	150ºF	A	A		B	NR
Crotonaldehyde	100%	70ºF	A			B	
Crude Oil		150ºF	A			B	B
Crude Oil @ 650PSI		200ºF	A			B	
Cyanide Cadmium Bath		100ºF				B	B
Cyanide Plating		100ºF				B	B
Cyanide Zinc		100ºF				B	B
Cyclobutane		55ºF	A			B	B
Cyclohexane		70ºF	A			B	B
Cyclohexanone		100ºF	A			B	NR
Cyclohexene		70ºF	A			B	B
Cyclopropane		70ºF	A			B	B
Dawn® Dish Soap	100%	150ºF	A				
Decon-Clean®	100%	70ºF				A	B
Decon-Quat®	100%	70ºF				A	B
Decyl Alcohol		70ºF	A			B	B
Dextrose		150ºF	A	A		B	B
Diacetone Alcohol	100%	70ºF	A	A	A	B	B
Diacetone Alcohol	100%	100ºF	A	A	A	B	B
Diacetone Alcohol	100%	120ºF	A	A	A	B	B

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Diacetone Alcohol	100%	131ºF	A	A	A	B	B
Diallyl Amine		70ºF	A				
Dibutyl Maleate		70ºF		A			
Dibutylphthalate		70ºF	A			B	
Dichloroacetic Acid	25%	70ºF		A			
O-Dichlorobenzene		100ºF	A			B	
Diesel Fuel	100%	60ºF	A	A	A	B	B
Diesel Fuel	100%	120ºF	A	A	A	B	B
Diethanolamine	100%	125ºF	A				
Diethanolamine	100%	150ºF	LR				
Diethanolamine	100%	350ºF	NR				
Diethyl Phthalate	100%	176ºF	A				
Diethyl Sulfate		100ºF	A				
Diethylene Glycol	50%	70ºF	A			B	
Diethylene Glycol	100%	100ºF	A			B	
Diethylene Glycol Monobutyl Ether (Glycol Ether DB)		100ºF	A			B	
Diethylenetriamine		70ºF	A	A			
Difluorophosphoric Acid		70ºF	NR				
Dihydrogenated Tallow Dimethylammonium Chloride		167ºF	A				
Dimethyl Ethanolamine (tech grade)		70ºF	A				
Dimethyl Phthalate		70ºF	A			B	B
Dimethyl Propane		70ºF	A			B	
Dimethyl Sulfoxide (DMSO)		70ºF	A				
Dimethyl Sulfoxide (DMSO)		302ºF	NR				
Dimethylamine		100ºF	A				NR
Dimethylamine (Anhydrous)		100ºF	A				NR
Dimethylformamide		70ºF	A				
Dioctyl Adipate		100ºF	A				
Dioctyl Phthlate Monomeric		100ºF	A	A			
Dioctyl Phthlate Monomeric		140ºF	A	A			
Diphenol Amine		150ºF	A				
Dipropylene Glycol	5%	100ºF	A	A		B	
Dipropylene Glycol	100%	150ºF	A	A		B	
Dipropylene Glycol Monomethyl ether (DPM)		100ºF	A	A		B	
Disodium Phosphate	5%	70ºF	A	A			B
Dodecylbenzene Sulfonate		125ºF	A			B	B
Dodecylbenzene Sulfonate (Anhydrous)		125ºF	A				
Dolchem®	100%	150ºF	A				
Dow® heavy duty oven cleaner	100%	70ºF	LR	NR	A		
Dow® heavy duty oven cleaner	100%	100ºF	NR	NR	B		
Dowtherm		70ºF				B	B

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Emulsion asphalt	100%	70ºF					NR
Epichlorohydrin		100ºF	A				
Ethane	100%	70ºF	A	A		B	B
Ethanol Amine		70ºF		A			
Ethyl Acetate	100%	100ºF	A	A	A	B	NR
Ethyl Acetate	100%	120ºF	A	A	A	B	NR
Ethyl Acetate	100%	150ºF	A	A	A	B	NR
Ethyl Acetate	100%	171ºF	A	A		B	NR
Ethyl Acetoacetate		70ºF	A	A			
Ethyl Acrylate		70ºF	A			B	
Ethyl Alcohol (Ethanol)	50%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	50%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	77%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	95%	70ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	150ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	97%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	100%	173ºF	A	A		B	B
Ethyl Amide	70%	70ºF	A				NR
Ethyl Amide (Anhydrous)	100%	70ºF	A				NR
Ethyl Chloride	100%	70ºF	A	A		B	
Ethyl Chloride	100%	150ºF	A	A		B	
Ethyl Ether (fumes)		70ºF	A			B	NR
Ethyl Ether (fumes)		94ºF	A			B	NR
2-Ethyl Hexacrylate		100ºF	A			B	B
2-Ethyl Hexenol		100ºF	A			B	
Ethyl Silicate Conc.		100ºF	A				
Ethylene Bromide	100%	176ºF	A			B	
Ethylene Chloride		100ºF	A	A		B	
Ethylene Chlorohydrin		100ºF	A	A		B	
Ethylene Chlorohydrin	100%	194ºF		A			
Ethylenediamine		70ºF	A	A			
Ethylenediaminetetracetic Acid (EDTA)	40%	70ºF	A				
Ethylene Dichloride		100ºF	A			B	
Ethylene Glycol	100%	70ºF	A	A	A	B	B
Ethylene Glycol	100%	120ºF	A	A	A	B	B
Ethylene Glycol	100%	150ºF	A	A		B	B
Ethylene Glycol Monomethyl Ether Acetate		100ºF	A			B	
Ethylene Oxide		100ºF	A				NR
Fatty Acid (Coconut)		180ºF	A			B	B
Fatty Acid (Cotton)		180ºF	A			B	B

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Fatty Acid (Oleic)		180ºF	A			B	B
Fatty Acid (Soya)		180ºF	A			B	B
Ferric Ammonium Citrate Solution		100ºF	A				
Ferric Chloride	10%	150ºF	A	A	A	B	B
Ferric Chloride	50%	70ºF	A	A	A	B	B
Ferric Chloride	50%	150ºF	A	A	A	B	B
Ferric Nitrate		150ºF				B	B
Ferric Sulfate		150ºF	A				B
Ferrous Sulfate	10%	150ºF	A	A		B	B
Ferrous Sulfate	25%	150ºF				B	B
Ferrous Sulfide	10%	150ºF	A	A			
Ferrous Sulfate/Hydrochloric Acid 50%/20%		100ºF	B				
Finesse® Shampoo	100%	150ºF	A	A	A		
Fish Oil		180ºF	A			B	B
Floorstar® TFRII	Conc.	150ºF	NR	NR	NR		
Fluosilic Acid		150ºF					NR
Formaldehyde	0.17%	150ºF	A			B	B
Formaldehyde & Methyl Alcohol (37%-7%)		70ºF	A	A	A	B	B
Formaldehyde & Methyl Alcohol (37%-7%)		150ºF	A	A	B	B	B
Formaldehyde (unstabalized)	44%	130ºF	A			B	B
Formaldehyde	50%	150ºF	A		B	B	B
Formic Acid	10%	70ºF	LR	LR		B	NR
Formic Acid	10%	150ºF	LR				NR
Formic Acid	90%	100ºF	NR				NR
Formic Acid	100%	70ºF	B			B	NR
Formic Acid	100%	125ºF	NR				NR
Freon		100ºF	A	A		B	NR
Fruit Juice		100ºF	A	A		B	B
Fuel Oil		100ºF	A	A		B	B
Fumaric Acid	10%	212ºF	A	A			
Furan		90ºF	A			B	
Furfuryl Alcohol		70ºF	A	A	A	B	
Furfurylamine		70ºF	A				
Gallic Acid		100ºF				B	B
Gasoline, Aviation		70ºF	A	A	A	B	B
Gasoline, Leaded		100ºF	A	A	A	B	B
Gasoline, Unleaded	100%	70ºF	A	A	A	B	B
Gasoline, Unleaded	100%	150ºF	A	A	A	B	B
Gasoline, White		70ºF	A	A	A	B	B
Gelatin		100ºF	A	A		B	B
Gluconic Acid	50%	100ºF	A				

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Glucose		70ºF	A			B	B
Glycidyl Phenylether		70ºF	A			B	
Glycerine		70ºF	A			B	B
Glycerine		200ºF	A			B	B
Glycolic Acid (Hydroxyacetic Acid)	70%	140ºF	A				
Glycols	30%	70ºF	A			B	B
Green Liquor		150ºF	LR			B	B
Heptane		100ºF	A	A		B	B
Heptanoic Acid		70ºF	A				
Hevea® Latex Type k5		70ºF	A			B	B
Hexane		150ºF	A	A			B
Hexane		350ºF	A	A			
1,6-Hexandiol		150ºF	A	A	A	B	B
Hexametaphosphate		100ºF	A				
Hexamethylenetetramine		150ºF	A	A	B		NR
Hilex® Bleach (See Sodium Hypochlorite)		70ºF	NR			NR	NR
Hydraulic Fluid (Houghtosafe 1120)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 56/60)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 620)		140ºF	A			B	
Hydraulic Fluid (skybtul)		50ºF	A			B	
Hydraulic Fluid (skybtul)		150ºF	A			B	
Hydrazine		100ºF	B			NR	
Hydrobromic Acid	2½%	70ºF	B	B	B	B	NR
Hydrobromic Acid	5%	70ºF	B	B	B	B	NR
Hydrobromic Acid	10%	150ºF	B	B	B	B	NR
Hydrobromic Acid	12½%	70ºF	B	B	LR	B	NR
Hydrobromic Acid	15%	70ºF	NR	LR	LR	B	NR
Hydrobromic Acid	20%	70ºF	NR				NR
Hydrobromic Acid	25%	70ºF	NR				NR
Hydrobromic Acid	30%	150ºF	NR			NR	NR
Hydrobromic Acid	48%	150ºF	NR	NR	NR	NR	NR
Hydrochloric Acid	2½%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	5%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	10%	70ºF	B	B		B	B
Hydrochloric Acid	10%	100ºF	B	B	B	B	B
Hydrochloric Acid	10%	150ºF	NR				B
Hydrochloric Acid	12½%	70ºF				B	B
Hydrochloric Acid	15%	70ºF				B	B
Hydrochloric Acid	20%	70ºF	B			B	B
Hydrochloric Acid	20%	100ºF	B			B	B
Hydrochloric Acid	20%	185ºF	NR				NR

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Hydrochloric Acid	30%	100ºF	B			NR	B
Hydrochloric Acid	30%	150ºF	NR				NR
Hydrochloric Acid	37%	70ºF					NR
Hydrochloric Acid	37%	150ºF	NR		NR		NR
Hydrocyanic Acid		100ºF					B
Hydrofluoric Acid	2%	70ºF				B	
Hydrofluoric Acid	10%	70ºF	NR				NR
Hydrofluoric, Vapors		212ºF	NR				NR
Hydrofluorosilic Acid	29%	100ºF	B				NR
Hydrogen Gas		70ºF	A	A		B	B
Hydrogen Gas		350ºF		A			
Hydrogen Peroxide	1%	70ºF				B	
Hydrogen Peroxide	30%	374ºF		B		NR	NR
Hydrogen Peroxide	90%	150ºF	NR	NR		NR	NR
Hydrogen Sulfide	3%	70ºF	A		NR	B	B
Hydrogen Sulfide	5%	210ºF	A		NR		
Hydroquinone		70ºF	A				
Hydroxyacetic Acid		77ºF	A	A			
Hydroxyacetic Acid		100ºF	A				
Hypochloric Acid		70ºF	NR			NR	NR
Hyposulfite		100ºF				B	B
Ink		100ºF	A	A		B	B
Insecticide Bidrin 8 (Amvac)	Conc.	70ºF	A		A		
Insecticide CDMAA (Amvac)	Conc.	70ºF	A	A	A		
Insecticide Naled (Amvac)	Conc.	70ºF	A	A	NR		
Insecticide Nifs T (Monsanto)		100ºF	A				
Iodine		75ºF	A			B	
Iron Pickle Liquor		150ºF				B	B
Iron Sulfate		100ºF	A	A		B	B
Iso-par (Isoparaffinic material)		140ºF	A				
Isobutane		70ºF	A			B	B
Isobutylaldehyde		70ºF	A			B	
Isobutyl Alcohol		70ºF	A			B	B
Isobutyl Alcohol/Formaldehyde 60%/40%		100ºF	A				
Isooctyl Alcohol		70ºF	A			B	B
Isophorone		70ºF	A			B	
Isopropyl Alcohol		70ºF	A	A		B	B
Isopropyl Alcohol		150ºF	A	A	A	B	B
Isopropyl Acetate		70ºF	A	A		B	
Isopropyl Acetate		200ºF	A	A			
Jet Fuel		70ºF	A	A		B	B

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Jet Fuel		100ºF	A	A		B	B
Jet Fuel JP-5		120ºF	A	A		B	B
Joy® Dish Soap		150ºF	A		A		
Kaboom®		120ºF	LR	LR	A	B	
Karo Syrup		70ºF	A	A	A	B	B
Kelvar		140ºF	A				
Kerosene		100ºF	A	A		B	B
Kopper Star Distillate		140ºF	A				
Lacquor		100ºF	A			B	NR
Lacquor Solvent		100ºF	A			B	NR
Lactic Acid	10%	140ºF	LR	LR		B	B
Lactic Acid	22%	100ºF	A				
Lactic Acid	100%	100ºF	A	A		B	B
Lanoline® Lotion Shampoo Concentrate		70ºF	A				
Lard		70ºF	A				
Latex		100ºF	A			B	B
Latex #512K (Dow®)		70ºF	A			B	B
Latex GR-S Type 3		77ºF	A	A		B	B
Latex Rubber		70ºF	A			B	B
Leachate Solution (Sour Water)		150ºF					
Lead Acetate	10%	150ºF	A	A		B	
Levulinic Acid		77ºF	A				
Lignin Sulfate		100ºF	A				
Lime (Chopped)		100ºF	A				
Linoleic Acid		100ºF	A			B	B
Lithium Chloride		70ºF	LR			B	B
LP Gas		100ºF	A	A		B	
LpHst (Steris product)	100%	70ºF				A	
LpHst (Steris product)	0.01%	70ºF				A	
Lube Oil (Pennzoil 10W30)		150ºF	A	A	A	B	B
Lubricating Oil		70ºF	A	A	A	B	B
Lubricating Oil		182ºF	A	A		B	B
Lysol®		70ºF	A				
Magnesium Carbonate		150ºF	A			B	B
Magnesium Chlorate		150ºF				B	B
Magnesium Chloride	40%	100ºF	A	A		B	B
Magnesium Chloride	5%	70ºF				A	
Magnesium Chloride	50%	70ºF	A			B	B
Magnesium Hydroxide Slurry		150ºF	A		A	B	B
Magnesium Nitrate		150ºF				B	B
Magnesium Oxide	20%	70ºF	A			B	B

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Magnesium Sulfate		100ºF	A			B	B
Magnesium Sulfate		150ºF	A			B	B
Maleic Acid	50%	70ºF	A			B	B
Maleic Anhydride		100ºF	A				
Maleic Anhydride		250ºF	A				
Malic Acid		100ºF	LR			B	B
Manganese Ammonium Sulfate		100ºF				B	B
Manganese Chloride		100ºF	A	A		B	B
Manganese Sulfate		150ºF	A			B	B
Martan B® liquid (Marathon Oil)		100ºF	A				
Mayonnaise		150ºF	A		A		
MEK Peroxide (45% in Dimethyl Phthalate)		70ºF	A	B	NR	B	NR
Melamine		70ºF	NR	NR			
Melamine Resin Solution		100ºF	A			B	B
Mercuric Chloride		100ºF	A	A		B	B
Methyl Acetate	96%	100ºF	A			B	NR
Methyl Acrylate		100ºF	A	A		B	
Methyl Alcohol	100%	70ºF	A	A	A	B	B
Methyl Alcohol	100%	120ºF	A	A	A	B	B
Methyl Alcohol	100%	148ºF	A	A	B	B	B
Methyl Butane		100ºF	A			B	B
Methyl Cellosolve (Glycol EM)		70ºF	A	A	B	B	
Methyl Cellosolve (Glycol EM)		120ºF	A	A	B	B	NR
Methyl Chloride		100ºF	A			B	NR
Methyl Chloride		150ºF	A			B	NR
Methyl Ether		50ºF	A			B	NR
Methyl Ethyl Ketone	100%	100ºF	A	A	B	B	NR
Methyl Ethyl Ketone	100%	150ºF	A	A		B	NR
Methyl Fluoride		150ºF	A			B	NR
Methyl Isobutyl Carbinol		70ºF	A			B	
Methyl Isobutyl Ketone (MIBK)		70ºF	A	A		B	NR
Methyl Mercaptan		70ºF	A				
Methyl Methacrylate		100ºF	A	A	NR	B	
Methyl Propane		70ºF	A			B	B
Methylene Bromide		100ºF	A	A			
Methylene Chloride	100%	77ºF	A	A		B	NR
Methylene Chloride	100%	100ºF	A	A		B	NR
Methylene Chloride	100%	113ºF	A	A		B	NR
Methylene Chlorobromide		70ºF	A			B	NR
Methylene Diisocyanate		100ºF	A				
n-Methylpyrolidone	100%	275ºF	A			B	

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Milk (condensed)		70ºF	A			B	B
Milk (whey)		150ºF	A			B	B
Mineral Oil		70ºF	A	A		B	B
Mineral Spirits		150ºF	A	A	A	B	B
Molasses	100%	70ºF	A	A		B	B
Molasses		110ºF	A	A		B	B
Monochloroacetic Acid		100ºF	A				
Monochloropinacolone (MCP)		75ºF	A				
Monochloropinacolone (MCP)		100ºF	A				
Monoethanolamine		100ºF	NR				NR
Monofluorophosphoric Acid		70ºF	B	B			NR
Morpholine		150ºF	A				
Mustard		150ºF	A		NR		
Nalco ® 2000 / Nalcool 2000 / Nalfleet 2000	100%	70ºF				A	
Naphthalene (sulfonated)		150ºF	A			B	B
Naphtha		150ºF	A	A	A	B	B
Naphthenic Acid		100ºF	A	A		B	B
Naphthenic Acid	95%	180ºF	A	A			
1-Naphthol-4-Sulfonic Acid	7.5-8.0pH	158ºF	A			B	B
Natural Gas		100ºF	A			B	B
Neatsfoot Oil		150ºF	A	A		B	B
Neatsfoot Oil		250ºF	A	A		B	B
Nickel Acetate	50%	70ºF	A			B	B
Nickel Chloride	50%	70ºF	A			B	B
Nickel Nitrate		150ºF				B	B
Nickel Plating Solution (electroless)		212ºF	B	A			
Nickel Plating Solution		374ºF	B		B	B	B
Nickel Salts		150ºF				B	B
Nickel Sulfate		150ºF				B	B
Nitric Acid	1%	70ºF	LR	A	B	B	NR
Nitric Acid	2%	185ºF	LR		B		NR
Nitric Acid	5%	70ºF	LR	LR	LR	B	
Nitric Acid	5%	120ºF	LR	B	B		NR
Nitric Acid	10%	100ºF			NR	B	NR
Nitric Acid	10%	140ºF	NR	NR	NR	B	NR
Nitric Acid	10%	150ºF	NR	NR	NR	B	NR
Nitric Acid	10%	185ºF	NR	NR	NR		NR
Nitric Acid	15%	150ºF	NR	NR	NR		NR
Nitric Acid	25%	70ºF	B			B	NR
Nitric Acid	25%	100ºF	NR	NR	NR		NR
Nitric Acid	25%	150ºF	NR	NR	NR		NR

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Nitric Acid	50%	100ºF	NR	NR	NR		NR
Nitric Acid	70%	100ºF	NR	NR	NR		NR
Nitrobenzene		100ºF	A	A		B	NR
Nitrobenzenesulfonic Acid		100ºF	A	A			
o-Nitrochlorobenzene		180ºF	A			B	
p-Nitrochlorobenzene		100ºF	A			B	B
Nitrogen		100ºF	A	A		B	B
Nitrogen		300ºF	A	A			
Nitrophenol		250ºF	A	A	NR	B	NR
1-Nitropropane		70ºF	A			B	B
Nonylphenol		100ºF	A			B	
Nonylphenol		180ºF	A			B	
n-Octyl Alcohol		70ºF	A			B	B
Nu-Calgon Evap Pow'r-C	100%	70ºF				A	LR
Nu-Calgon Evap-Green	100%	70ºF				A	LR
Nu-Calgon Green Clean	100%	70ºF				A	LR
Nu-Calgon Cal-Green	100%	70ºF				A	LR
Nu-Calgon Tri-Pow'r HD	100%	70ºF				A	LR
Nu-Calgon TriClean 2x	100%	70ºF				A	LR
Nu-Calgon Nu-Solve NR	100%	70ºF				A	LR
p-t-Octyl Phenol		250ºF	A				
Oil, Cutting		140ºF	A			B	B
Oil, water soluble		70ºF	A			B	
Oleic Acid		70ºF	A			B	B
Oleic Acid		250ºF	A				
Oleomargarine		70ºF	A				
Oleum		100ºF	B				NR
Olive Oil		70ºF	A			B	B
Orange Concentrate		70ºF	A			B	
Orange Soda Concentrate		70ºF	A			B	
Oxalic Acid		70ºF	A			B	B
Oxalic Acid		160ºF	A			B	
Oxygen		70ºF	A	A		B	B
Ozone			NR	NR		NR	
Palm Oil		70ºF	A	A		B	B
Palm Oil		150ºF	A	A		B	B
Palm Oil (Crude)		250ºF	A	A		B	NR
Palmitic Acid		200ºF	A			B	B
Palmolive® Dish soap		150ºF	A				
Paraformaldehyde	50%	150ºF	A			B	
Paraldehyde		70ºF	A			B	

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Peanut Butter		70ºF	A	A			
Peanut Oil		70ºF	A				
1,3-Pentadiene		100ºF	A			B	B
Pepper		70ºF	A			B	
Pepperoni						NR	
Perchloric Acid	20%	70ºF		B			NR
Perchloroethylene		200ºF	A			B	NR
Phenol	3%	70ºF	A			B	NR
Phenol	5%	150ºF	A				
Phenol	50%	150ºF	A	A			
Phenol	90%	100ºF	A	A			NR
Phenol	90%	150ºF	A	A			NR
Phenol	100%	150ºF	A	A			NR
Phenylenediamine	50%	70ºF	A				
Phenylhydrazine		70ºF	B				
1-Phenyl-2-methyl-1,2-propanediamine		70ºF	A				
Phosphoric Acid	10%	70ºF	B		B	B	B
Phosphoric Acid	10%	150ºF	B	B		B	B
Phosphoric Acid	25%	100ºF	B	B	B		
Phosphoric Acid	25%	150ºF	B	B			
Phosphoric Acid	50%	150ºF	NR	NR			
Phosphoric Acid	75%	100ºF			B		
Phosphoric Acid	75%	150ºF	NR	NR			
Phosphoric Acid	85%	70ºF	B			B	B
Phosphorus Oxychloride		70ºF	A				
Phosphorus Trichloride		70ºF	A				NR
Phthalic Acid	90%	70ºF	A				
Phthalic Anhydride	80%	70ºF	A				
Phthalic Anhydride, Concentrated (Mother Liquor)		100ºF	A				
Phthalic Anhydride, molten		347ºF	A				
Pickling Acid, sulfuric		150ºF				B	B
Picric Acid		70ºF				B	B
Pine Oil		70ºF	A	A	A	B	B
Pine Oil		100ºF	A	A	A	B	B
Polyaluminum Chloride		70ºF	A				
Polyethylate Nonylphenol	70%	100ºF	A			B	
Polyethylene Glycol		100ºF	A			B	
Polyols		100ºF	A				
Polyvinyl Acetate Emulsion		70ºF	A	A		B	
Polyvinyl Chloride Pellets		70ºF					
Potassium Acetate	25%	150ºF	A	A	A	B	B

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Potassium Bicarbonate		150ºF				B	B
Potassium Bisulfate		100ºF				B	B
Potassium Bromate	7%	70ºF	A	NR	A	B	NR
Potassium Bromate	7%	150ºF	B	NR	A	B	NR
Potassium Bromide	10%	150ºF	A	A	A	B	B
Potassium Bromide	100%	70ºF	A			B	B
Potassium Carbonate	10%	150ºF	B	B		B	B
Potassium Chloride	10%	70ºF	A	A	A	B	B
Potassium Chloride	10%	150ºF	A	A	A	B	B
Potassium Chloride	25%	150ºF	A	A	A	B	B
Potassium Chloride	100%	70ºF	A			B	B
Potassium Chromate	10%	150ºF	A	A		B	
Potassium Cuprocyanide		100ºF				B	B
Potassium Cyanate		150ºF				B	B
Potassium Dichromate	10%	150ºF	A	A		B	B
Potassium Ferricyanide	25%	150ºF	A	A		B	B
Potassium Ferrocyanide		70ºF	A			B	B
Potassium Fluoride		70ºF	A			B	B
Potassium Hydroxide	10%	100ºF	NR			NR	NR
Potassium Hydroxide	10%	150ºF	NR				
Potassium Hydroxide	50%	70ºF	NR	NR		B	NR
Potassium Hydroxide	50%	150ºF	NR	NR		NR	NR
Potassium Hypochlorite		100ºF	NR			NR	NR
Potassium Iodide	25%	150ºF	A	A	B	B	B
Potassium Nitrate	50%	70ºF	A			B	B
Potassium Nitrite		150ºF					B
Potassium Oleate		150ºF	A				
Potassium Permanganate		70ºF	B			B	B
Potassium Persulfate		150ºF				B	B
Potassium Phosphate		100ºF	A			B	B
Potassium Sulfate		150ºF	A			B	B
Potassium Sulfide		150ºF				B	B
Potassium Thiosulfate		100ºF				B	B
Propane		100ºF	A	A		B	B
Proprionaldehyde		70ºF	A			B	
Proprionic Acid		70ºF	LR				
n-Propyl Acetate		70ºF	A	A		B	
n-Propyl Alcohol	100%	70ºF	A	A		B	B
n-Propyl Alcohol		100ºF	A	A		B	B
n-Propyl Alcohol		150ºF	A	A		B	B
Propylene		100ºF	A			B	B

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Propylene Glycol		100ºF	A	A		B	
Propylene Glycol Monomethyl Ether (PM)		150ºF	A	A	NR	B	
Propylene Oxide		70ºF	A				
Propylenediamine		70ºF	A				NR
Pro-Red +	10%	70ºF				NR	
Prune Juice		100ºF	A			B	B
Pyridine		100ºF	A			B	
Pyrogallic Acid		70ºF				B	B
Quaternary Ammonium Chlorides		100ºF	A				
Rapeseed Oil		70ºF	A	A		B	B
Rocadyna (PVP)		150ºF	A		NR		
Rochelle Salts		100ºF	A			B	B
Rosin (wood)		388ºF	A			B	B
Rubber Latex		77ºF	A			B	
Sake Wine		100ºF	A	A		B	
Salicylic Acid	10%	150ºF	A	A		B	B
Salomi		70ºF				NR	
Saturated Lime & Calcium		374ºF		NR			
Sauve® shampoo	100%	70ºF	A				
Scale Gone 70 (MEC Corporation)	17%	150ºF	A	A			
Silicic Acid		100ºF				B	B
Silver Nitrate	20%	150ºF	A	A	B	B	B
Silver Plating Solution		150ºF				B	B
Sodium Acetate	25%	70ºF	A	A	A	B	B
Sodium Acetate	25%	150ºF	A	A	A	B	B
Sodium Acetate	50%	150ºF	A	A	A	B	B
Sodium Aluminate		100ºF				B	B
Sodium Bicarbonate		150ºF	B			B	B
Sodium Bisulfate	10%	150ºF	A			B	B
Sodium Bisulfate	25%	150ºF	A	NR		B	B
Sodium Bisulfide		100ºF				B	B
Sodium Bisulfite	25%	150ºF	A	A		B	B
Sodium Borate		100ºF	A			B	B
Sodium Bromide		150ºF	A			B	B
Sodium Carbonate	10%	176ºF	A	B	A	B	B
Sodium Carbonate	15%	185ºF	A		A		
Sodium Carbonate	20%	140ºF	A			B	B
Sodium Carbonate	50%	70ºF	A			B	B
Sodium Carbonate	99%	100ºF	A			B	B
Sodium Chlorate	46%	120ºF	NR	NR	A		
Sodium Chlorate	50%	70ºF	A	LR	A	B	B

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Sodium Chlorate	50%	120ºF	LR	LR	A		
Sodium Chloride	5%	70ºF				A	
Sodium Chloride	5%	150ºF	A	A		B	B
Sodium Chloride	20%	77ºF	A	A		B	B
Sodium Chloride	20%	200ºF	A				
Sodium Chloride	40%	200ºF	A			B	B
Sodium Chlorite		100ºF	B			B	B
Sodium Chlorite	25%	120ºF	NR	NR	NR	NR	NR
Sodium Chromate	50%	70ºF	A			B	B
Sodium Cyanide	20%	100ºF	B			B	B
Sodium Dichromate		100ºF	B			B	B
Sodium Ferricyanide		100ºF				B	B
Sodium Fluoride	25%	122ºF	A	A		B	NR
Sodium Fluoride	25%	150ºF	A	A		B	NR
Sodium Formate	22%	180ºF	A			B	
Sodium Formate	48%	150ºF	A				
Sodium Formate	50%	250ºF				B	
Sodium Hydrosulfide (Sodium Bisulfide)		100ºF				B	B
Sodium Hydroxide	½%	176ºF	A	B	A		NR
Sodium Hydroxide	1%	100ºF			A	NR	NR
Sodium Hydroxide	2%	77ºF		B	A	B	NR
Sodium Hydroxide	2%	176ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	8%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	70ºF	NR	NR		B	NR
Sodium Hydroxide	10%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	120ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	150ºF	NR	NR		NR	NR
Sodium Hydroxide	10%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	20%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	20%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	25%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	28%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	30%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	50%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	73%	160ºF	NR	NR	B	NR	NR

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Sodium Hydroxide	73%	250ºF	NR	NR		NR	NR
Sodium Hydroxide	75%	150ºF	NR	NR		NR	NR
Sodium Hypochlorite (Bleach)	5%	70ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	100ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	140ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite (Bleach)	5½%	150ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	12½%	70ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	15%	70ºF	NR	NR		NR	
Sodium Hypophosphite	5%	70ºF	A				
Sodium Metaphosphate	5%	70ºF	A				
Sodium Metaphosphate	12½%	100ºF	A				
Sodium Nitrate		100ºF	A			B	B
Sodium Nitrite		150ºF				B	B
Sodium Oleate		100ºF	A			B	B
Sodium Permanganate		150ºF				B	B
Sodium Peroxide		100ºF	B			B	B
Sodium Phosphate	50%	70ºF	B			B	B
Sodium Polyacrylate		70ºF	A				
Sodium Propionate	20%	70ºF	A			B	
Sodium Silicate		150ºF	A			B	B
Sodium Sulfate	10%	150ºF	A	A	A	B	B
Sodium Sulfate	25%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	200ºF	A	A	A	B	B
Sodium Sulfate Nickle Pickling Solution		150ºF				B	B
Sodium Sulfhydrate		100ºF	A				
Sodium Sulfite	10%	150ºF	A	A	A	B	B
Sodium Sulfite	10%	180ºF	A	A	A	B	B
Sodium Sulfite	25%	150ºF	A	A	A	B	B
Sodium Thiocyanate	10%	70ºF	LR				
Sodium Thiocyanate	50%	70ºF	LR				
Sodium Thiosulfate	10%	150ºF	A	A	A	B	B
Sodium Thiosulfate	30%	100ºF	A	A	A	B	B
Sodium Thiosulfate	30%	120ºF	A	A	A	B	B
Sodium ThioSulfate	30%	150ºF	A	A	A	B	B
Sodium Toluene Sulfonate	40%	100ºF	A				
Sodium Xylene Sulfonate		100ºF	NR				
Solo® Laundry detergent	100%	150ºF	B		NR		
Sorbitol	conc.	100ºF	A	A		B	
Soya Oil		180ºF	A			B	B
Soybean Hydrase		70ºF	A	A	A	B	

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Soybean Hydrase		150ºF	A	A	A	B	
Soysauce	100%	150ºF	A		A		
Sparkle	100%	70ºF				A	
Spor-Klenz®	1%					A	B
Spor-Klenz®	100%					A	
Stannic Chloride		100ºF	B			B	B
Stannous Chloride		100ºF				B	B
Starch		150ºF	A	A		B	B
Steam		225ºF	A	A	NR	B	NR
Steam		250ºF	A	A	NR	B	NR
Steam		290ºF	A	A	NR		NR
Stearic Acid	90%	160ºF	A	A		B	B
Stoddard Solvent		150ºF	A	A		B	B
Strawberry Preserves		70ºF	A				
Styrene		70ºF	A				
Styrene Butadiene Latex (pH 7-9)		140ºF	A	A			
Sugar Mixture		70ºF	A			B	B
Sulfamic Acid	20%	70ºF	A			B	B
Sulfamic Acid	50%	70ºF	A			B	B
Sulfur	100%	300ºF	A		B	B	NR
Sulfur Chloride		100ºF					NR
Sulfur Dioxide		150ºF	A			B	LR
Sulfur Trioxide		100ºF					NR
Sulfuric Acid	5%	70ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	100ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	120ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	150ºF	B	LR	B	B	B
Sulfuric Acid	10%	77ºF	B	NR	B	B	
Sulfuric Acid	10%	100ºF	B	NR	B		
Sulfuric Acid	10%	120ºF	B	NR	B	B	B
Sulfuric Acid	10%	150ºF	B	NR	B	B	
Sulfuric Acid	15%	185ºF	B	NR			
Sulfuric Acid	20%	70ºF	B	LR	LR	B	B
Sulfuric Acid	20%	150ºF	B	B	B	B	
Sulfuric Acid	25%	70ºF	B			B	
Sulfuric Acid	25%	100ºF	B	B		B	
Sulfuric Acid	25%	150ºF	B	B		B	
Sulfuric Acid	25%	300ºF	B	B			
Sulfuric Acid	30%	70ºF	B			B	B
Sulfuric Acid	30%	100ºF	B	B	B	B	
Sulfuric Acid	30%	150ºF	NR	NR			

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Sulfuric Acid	50%	70ºF	LR		B	B	B
Sulfuric Acid	50%	150ºF	LR			B	B
Sulfuric Acid	70%	70ºF	A			B	B
Sulfuric Acid	70%	100ºF	A			B	B
Sulfuric Acid	70%	150ºF	B	B		B	B
Sulfuric Acid	75%	70ºF	A				
Sulfuric Acid	75%	100ºF	A			B	B
Sulfuric Acid	75%	150ºF	LR			B	B
Sulfuric Acid	92%	100ºF	A				NR
Sulfuric Acid	96%	100ºF	A				
Sulfuric Acid	98%	70ºF	A	B		B	NR
Sulfuric Acid	98%	120ºF	A				NR
Sulfuric Acid	98%	150ºF	B				NR
Sulfuric Acid	98%	180ºF	NR				NR
Sulfuric Acid	100%	100ºF	LR	NR	NR		NR
Sulfuric Acid	100%	150ºF	LR	NR			NR
Sulfuric Acid/Chromic Acid 6%/5%		100ºF	NR				
Sulfuric Acid/Nitric Acid 64%/0.1%		100ºF	NR				
Sulfurous Acid	15%	200ºF	A				
Sulfurous Acid	100%	100ºF				B	NR
Surfactants		100ºF				B	B
Tall Oil		70ºF	A			B	B
Tall Oil		180ºF	A			B	B
Tallow (crude)		150ºF	A			B	B
Tannic Acid	10%	200ºF	A				
Tannic Acid	100%	100ºF	A			B	B
Tar		150ºF	A			B	B
Tartaric Acid	30%	200ºF	A				
Tartaric Acid	100%	100ºF				B	B
Tetrachloroethane		200ºF	A	A		B	NR
Tetraethylenepentamine		70ºF	A				
Tetrafluoroethylene		150ºF	A		A	B	NR
Tetrahydrofuran		70ºF	A			B	
Tetrahydrofuran		151ºF	A	A		B	
Thioglycolic Acid	97%	70ºF	A	A			
Thioglycolic Acid	97%	150ºF	LR	LR	NR		
Thiols		70ºF	A				
Tide® Laundry detergent	100%	70ºF	A				
Tide® Laundry detergent	100%	150ºF	A		NR		
Tin Immersion Dip		150ºF			NR		B
Tin Tetrachloride	50%	70ºF	A		A	B	NR

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Titanium Dioxide		100ºF	A.				
Titanium Tetrachloride		100ºF	NR	NR			
Toluene	100%	70ºF	A	A	B	B	NR
Toluene	100%	100ºF	A	A	B	B	NR
Toluene	100%	230ºF	A	A	B	B	NR
Toluene Diisocyanate (TDI)		100ºF	A	A			
Toluenesulfonamide/formaldehyde resin	100%	150ºF	A	A	A		
Tomato Paste, no salt (Hunts®)	100%	150ºF			A		
Tomato Puree (Hunts®)	100%	150ºF			A		
Toxaphene	100%	194ºF	A				
Toxaphene	100%	212ºF	A	LR			
Transformer Oil		70ºF	A				
Tributyl Phosphate		70ºF	A				
1,1,1 Trichloroethane		70ºF	A	A			
1,1,1 Trichloroethane		165ºF	A	A	B	B	NR
Trichloroethylene	100%	70ºF	A	A	A	B	NR
Trichloroethylene	100%	150ºF	A	A	A	B	NR
Trichloroethylene	100%	180ºF	A			B	NR
Tricresyl Phosphate	100%	70ºF	A	A	A	B	B
Tricresyl Phosphate	100%	100ºF	A			B	B
Tridecyl Alcohol		70ºF	A			B	B
Triethanolamine		100ºF	A				
Triethanolamine Lauryl Sulfate		100ºF	A	LR			
Triethylbenzene		150ºF	A				
Triethylene Glycol		100ºF	A				
Triethylenetetramine		100ºF	A	A			
Trifluoroacetic Acid (3M)	100%	162ºF	A	A	B	B	NR
Triphenyl Phosphite		100ºF	A	A	A	B	NR
Tripotassium Phosphate		150ºF	A	A	A	B	NR
Trisodium Phosphate	5%	140ºF	A			B	NR
Tung Oil	100%	70ºF	A	A	A	B	B
Turpentine		70ºF	A			B	B
Urea Fromaldehyde resin		100ºF	A			B	B
Urea Liquor		266ºF	A			B	B
Urea Solution	50%	100ºF	A				
Urea-Ammonium Nitrate solution		150ºF	A				
Uric Acid		70ºF	A			B	
V-8 Vegetable Juice		70ºF	A	A			
Vapam		100ºF		A			
Varnish		150ºF	A				
Vegetable Oil		100ºF	A				

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Vesphene (Steris Product)	100%	70ºF				A	
Vesphene (Steris Product)	0.01%	70ºF				A	
Vicks® Cough Syrup		70ºF	A			B	NR
Vinegar (White)		70ºF	A				
Vinyl Acetate (Clear liquid)		150ºF	A			B	B
Vinyl Chloride		70ºF	A			B	B
Vinyl Toluene		100ºF	A		A	B	B
Water, Boiler		212ºF	A				
Water, Boiling Distilled		225ºF	A			B	B
Water, Boiling Distilled		250ºF	A				
Water, Boiling Distilled		290ºF	A	A		B	B
Water, Brackish		150ºF	A	A			
Water, Cation Exchange	pH4	180ºF	A			B	
Water, DI		100ºF	A	A	A	B	B
Water, DI		150ºF	A	A	A	B	B
Water, DI		212ºF	A	A	A	B	NR
Water, Fresh		212ºF	A	A		B	B
Water, Salt	5%	150ºF	A			B	B
Water, Sea		165ºF	A	A		B	B
Water, Sea		212ºF	A	A		B	NR
Water, Tap		100ºF	A	A	A	B	B
Water, Tap		150ºF	A	A	A	B	B
Water, Tap		212ºF	A			B	NR
Wax		200ºF	A				
Whey		70ºF	A				
Whiskey		150ºF	A			B	B
White Liquor		150ºF	NR	NR		B	B
Whizz® Laundry detergent	100%	150ºF	NR	NR	NR		
Wine		100ºF	A			B	B
Wood Rosin	100%	100ºF	A	A	NR	B	B
Wood Rosin		388ºF	A			B	NR
Xylene	100%	150ºF	A	A		B	NR
P-Xylene		150ºF	A	A		B	NR
Yeast		150ºF				B	
Zinc Acetate	10%	100ºF	A			B	B
Zinc Acetate	30%	100ºF	A			B	B
Zinc Calcium Bromide		150ºF	A	A	A	B	B
Zinc Chloride	10%	150ºF	A	A		B	B
Zinc Chloride	40%	70ºF	A			B	B
Zinc Chloride	50%	70ºF	LR	LR		B	B
Zinc Nitrate		100ºF	B	B		B	B

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Zinc Plating Solution		150ºF	B	B		B	B
Zinc Sulfate		100ºF	B	B		B	B

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HERESITE PROTECTIVE COATINGS, LLC

3005 Ranchview Ln N
Plymouth, MN 55447
cdicurbs.com 888-234-7001

Manufacturer's Certification of Compliance

To Whom It May Concern,

I, Joe Long, Crystal Distribution Inc. Supply Chain Manager, certify that the products listed below comply with the domestic content requirements of the Build America, Buy America Act (BABA) and related federal regulations.

Product(s) or Material(s):

- Curbs
- Curb Adapters

Certification Statement:

For manufactured goods and construction materials, I certify that all manufacturing processes occurred in the U.S. at one of our five (5) manufacturing facilities, the cost of U.S.-sourced components is more than 55% of the total component cost, and final manufacturing or assembly was in the U.S.. For iron and steel products, all manufacturing, from melting through coating, took place in the U.S. based upon certifications provided to us by our galvanized sheet metal and micromat insulation suppliers.

This certification confirms compliance with all applicable BABA requirements.

Notification of Changes:

I agree to inform you immediately if compliance changes during this project.

Declaration:

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Joe Long
Supply Chain Manager
jlong@cdicurbs.com
763-639-7487

Line	Quantity	CDI Part #	Tag
B	2	2-0016-9206	PAC- J01 PAC- J02
Description			
Straight Curb Straight, No Pitch, 16 in *New Model:* RN013 B CABINET STANDARD AND POWER EXHAUST. DUCT BRACES Wood Nailer; Top Brace; Not Insulated; Insulated Condenser Panel (only where required)			

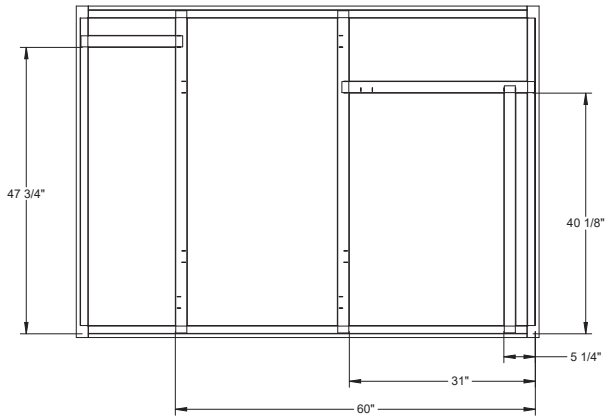
Curb to be coated in heresite p-413 by Bygold

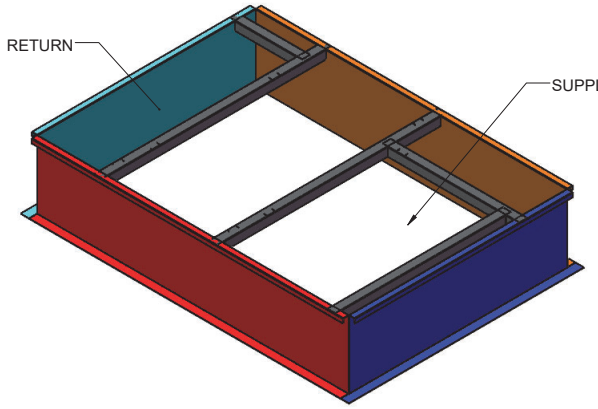
OPTIONS:

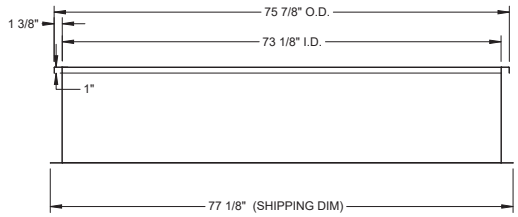
MATERIAL: 18 ga. GAL STEEL
INSULATED PANELS (WHERE REQUIRED)
1X4 WOOD NAILER (UNDER TOP FLANGE)

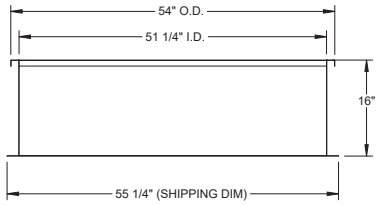
DIMENSIONED AND TOLERENCED PER ANSI Y14.5M-1982

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	INITIAL DRAWING	5/01/2017	HMH









CURB SHOWN IS CDI STANDARD CONFIGURATION CDI RESERVES THE RIGHT TO CHANGE LAYOUT WITHOUT NOTIFICATION. IF CURB IS NEEDED IN A DIFFERENT CONFIGURATION CDI MUST BE NOTIFIED PRIOR TO PLACING AN ORDER.

*VERIFY EXISTING CURB OD
*VERIFY SUPPLY AND RETURN OPENINGS
*NOTE ANY CHANGES
*CALL WITH ANY QUESTIONS
*FAX BACK IF DRAWING IS OK AS IS

CURB WEIGHT (LBS.)	APPROVALS	DATE
83.77	DRAWN: showard	
UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE: X ± 0.06, XX ± 0.03, XXX ± 0.01, ∠ ±2°, .XX = ±.007, .X = ±.02	CHECKED: -	-
DIMENSIONS ARE AS FOLLOWS: INCH [MM]	Monday, January 8, 2018 11:50:49 AM	
3RD ANGLE PROJECTION		

CDI
17560 TYLER ST NW
ELK RIVER, MN 55330
(763)391-7790
(763)391-7851

TITLE: 2-0016-9206
FILE NAME: 2-0016-9206
DRAWING NO.:
REV: 01
ECO #:
SCALE: 1:16
SHEET: 4 OF 7

S:\CURBS_CURB_ADAPTERS\2-XXXX-XXXX_PITCHED_STRAIGHT_KD\STANDARD STRAIGHT-PITCHED\9000\2-0016-9206\

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Wate Water Resource Recovery Facility
PRODUCT	Packaged Air Conditioners/ Packaged Heat Pumps
MANUFACTURER	AAON
SPECIFICATION	156500-6-11 2.50
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 15, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

1100 Kendrick Ave. Springdale AR, 72764

SUBMITTAL NOTES

Review Comments

Remarks

1. **Please include bookmarks in the submittal PDF for the different unit tags and products.**
2. **Blygold coating submitted is tested on aluminum panels. This coating does not appear to be intended to be used as conformal coating for electronic circuit boards and wiring connections. Confirm or submit appropriate coating product for electronics.**
3. **Response to comment is not clear that the increased MCA rating has been coordinated with the electrical power circuit. Contractor to confirm.**
4. **Response to comments on roof curbs is not found. Confirm roof curbs are provided and include product information.**
5. **PAC A0l / PAC A02 / PAC J0l / PAC J02 / PHP L0l: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/ designer.**
6. **PHP L02: Contractor to coordinate exact location of openings with existing joists and framing members.**
7. **PHP L03: Contractor to coordinate exact location of openings with existing joists and framing members.**
8. **PHP M0l: This unit is supported by a concrete slab and grade**

Review Response

1. **Bookmarks are included on this submittal document**

2. The equipment manufacturer does not recommend coating electronic terminals or connections due to serviceability concerns. If the electrical is coated there is not a viable way to service, diagnose, or maintain proper operation of the systems. The note for H-2 Note 2 is listed below and calls out a conformal coating however, the spec calls for all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating. The H-2 Note #2 appears to be pulled from the Spec section 15650-11 Casing- a. DOAS 15650-12 a cont. Uncoated galvanized steel exterior is not acceptable. controls panels, wiring connections and other sensitive electronics shall be provided with heresite, E-coat, micro guard, or equal. There is not a spec call out for electrical coating on the Packaged Roof Top Units. Furthermore, the electrical components are in an isolated compartment not subject to exposure of the air stream.

H-2 Note 2 Packaged Roof Top Units 2. UNIT IS SUBJECT TO CORROSION FROM A HYDROGEN SULFIDE LADEN ATMOSPHERE. ALL AIRSTREAM COMPONENTS AND EXPOSED HEAT TRANSFER COMPONENTS SHALL BE GIVEN A PROTECTIVE SPECIAL COATING OF HERESITE, MICROGUARD 1, ELECTROFIN E-COAT OR APPROVED EQUAL. "CONTROLS PANELS, WIRING CONNECTIONS AND OTHER SENSITIVE ELECTRONICS – Pulled from DOAS Spec section 15650-11,12 a."

Spec - 15650-7 c. Where indicated in the schedules on the Drawings, all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating.

3. Contractor to Confirm

4. Curb data provided for each submitted section. Curbs to include Heresite P-413 coating by Blygold.

5. Contractor to Confirm

6. Contractor to Confirm

7. Contractor to Confirm

8. Contractor to Confirm

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Water Resource Recovery WRRF Facility
PRODUCT	Packaged Roof Top Units
MANUFACTURER	AAON
SPECIFICATION	15650
LOCATION	Springdale, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems
CONTRACTOR POC	
DATE	November 11, 2025
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

5440 Northshore Drive – North Little Rock, Arkansas 72118 – Tel: 501.374.5420 Fax: 501.370.9298

SUBMITTAL NOTES

PHP_L01

Remarks BLACK & VEATCH NOTES FROM SEPTEMBER 3, 20205

Building Mechanical Comments:
All Units:

1. Roof Top Units are specified under Division 15650, revise submittal title and confirm compliance with 15650.
2. Contractor to confirm that materials comply with American Iron and Steel (AIS) requirements as indicated section 15650-1.02.
3. AAON is not a listed manufacturer in specification section 15650. To be considered as a substitute, submit additional information on construction materials / components to prove compliance with section 15650 – 2.05.A.
4. There is no digital Building Management Control system (BMS) on the project. Controls are hardwired and must be built-in or coordinated with the general HVAC controls supplier. Contractor to confirm that all controls, interlocks, and alarms as indicated in the Contract Drawing Sequence of Operation H-6 will be provided.
5. Confirm extra materials will be provided as indicated in specification section 15650-2.05.A.3.
6. Confirm coatings will be applied as required by the Packaged Air Conditioning/Heat Pump Schedule Notes on Contract Drawing H-3. Please provide coating information and chemical resistance charts.
7. Confirm the cooling capacities listed in the submittal account for coatings provided.
8. Confirm Modulating Hot Gas Reheat is included on all units.
9. Confirm economizers are provided with differential enthalpy plus fixed dry bulb control.
10. Confirm supply fans are direct drive and provided with VFDs.
11. Confirm all units with R454B refrigerant are provided with A2L leak detection, alarm, and refrigerant circuit shutdown capability. Contractor to coordinate leak detection unit operation with duty / standby controls where applicable.
12. Confirm all units are provided with a roof curb 16 inches in height as required by spec paragraph 2.05.A.13.e.

POWERS OF ARKANSAS -
RESUBMIT NOTES 11/10/2025:
1. REVISED SUBMITTAL PER SPEC SECTION 15650
2. REVISED SUBMITTAL AMERICAN IRON AND STEEL COMPLIANCE - SEE BELOW
3. REVISED SUBMITTAL PER SPEC SECTION 15650-2.05.A.
4. REVISED SUBMITTAL UNIT HAS FACTORY CONTROLLER - FIELD CONTROLS PER DRAWING H-6 PROVIDED BY OTHERS
5. REVISED SUBMITTAL INCLUDES SPEC SECTION 15650-2.05.A. ADDITIONAL ITEMS OIL & FILTERS - PAGE #9 F9A BELOW - [1] LUBRICATING OIL SHIPS LOSE
6. REVISED SUBMITTAL INCLUDES CORROSIVE COATING PER DRAWING NOTE H-3 SEE ATTACHED HERESITE AND SUBMITTAL CALL OUT ON PAGE #10 F.37 & PAGE #16 BELOW
7. REVISED SUBMITTAL CAPACITES ACCOUNT FOR COATINGS.
8. REVISED SUBMMITAL MHGRH CALLED OUT ON PAGE #10 F11A. BELOW
9. REVISED SUBMMITAL ECONOMIZER WITH DIFFERENTAL ENTHALPY AND SENSIBLE TEMP SENSOR CALLED OUT ON PAGE #9 F7 BELOW
10. REVISED SUBMMITAL DIRECT DRIVE FANS WITH VFD CALLED OUT ON PAGE #9 F3.4/F3.B/F3.C BELOW
11. REVISED SUBMMITAL A2L COMPLIANT SEE ON PAGE #11 BELOW

I cannot say for sure if we have ever provided a letter or not to a customer. But all our raw material steel, Copper, Galvanized, Aluminum, & Stainless we get from domestic mills.

Jimmy T Davis
Category Manager-Raw Materials

AAON, Inc.
p: 918-382-6525
2425 S Yukon Ave
Tulsa, OK 74107
www.aaon.com

BLACK & VEATCH NOTES FROM SEPTEMBER 3, 2025

PHP-L01

1. Heat pump capacity appears below scheduled capacity. Confirm intent to operate heat pump and auxiliary electric coil simultaneously.
2. Confirm unit MCA with electric heat. If unit MCA is higher than listed in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3, Contractor to coordinate any needed changes with electrical at no additional cost to the owner.
3. Contractor to coordinate any changes due to weight distribution or different dimensions with the structural engineer at no additional cost to owner.

POWERS OF ARKANSA-
RESUBMIT NOTES 11/10/2025:

1. REVISED CAPACITY ON PAGE #5 BELOW - PAGE #6 HEAT PUMP CAPACITY TABLE AT DIFFERENT AMBIANT CONDITIONS.
2. REVISED SUBMITTAL PAGE #5 AUXILIARY HEAT
3. REVISED SUBMITTAL WEIGHT 1317lbs vs. SCHEDULED OF APPROX 1300lbs - PAGE #5 BELOW

Unit Rating

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

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                                                A1 A2 A3 A4 A5  B1 B2 B3 B4 B5  1  2  3A 3B 3C 3D 3E  4A 4B 4C  5A 5B 5C 5D 5E  6A 6B 6C 6D 6E  7  8  9A 9B 9C
RNA-006-A-A-3-GJATA-A02NA:00-0ACLG-G00-00000-ABGME-DC-000
A-00-Q0-0-AN0-EB-HA0A-00-000-B00B00-G0000B-000000C
9D 10A 10B 11A 11B 12 13A 13B 13C 14 15 16A 16B 16C 16D 17A 17B 18A 18B 18C 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37
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Tag: PHP_L01

Job Information

Job Name:	*Bentonville WRRF*
Job Number:	*Bentonville WRRF*
Site Altitude:	*1266 ft*
Refrigerant:	*R-454B*
Design System Charge (oz):	*550*

Static Pressure

External:	*1.68 in. w.g.*
Cooling Coil:	*0.13 in. w.g.*
Filters Clean:	*0.07 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*
Reheat Coil:	*0.03 in. w.g.*

Cooling Section

	Gross	Net
Total Capacity:	*70.0 MBH*	*65.7 MBH*
Sensible Capacity:	*53.0 MBH*	*48.8 MBH*
Latent Capacity:	*16.9 MBH*	
Mixed Air Temp (DB/WB):	*83.9 °F / 67.8 °F*	
Entering Air Temp (DB/WB):	*83.9 °F / 67.8 °F*	
Lv Air Temp (Coil) (DB/WB):	*54.9 °F / 54.6 °F*	
Lv Air Temp (Unit) (DB/WB):	*57.1 °F / 55.5 °F*	

Supply Air Fan:	*1 x RNA185 @ 1.48 BHP Ea.*
SA Fan RPM / Width:	*1719 RPM / 4.140 in*
SA Fan FEI:	*1.08*
Exhaust Air Fan:	*1 x RM12X9-RN @ 0.29 BHP Ea.*
EA Fan RPM / Width:	*580 RPM /*
EA Fan FEI:	*1.03*
Evaporator Coil:	*8.5 ft² / 4 Rows / 14 FPI*
Evaporator Face Velocity:	*211.6 fpm*

Unit Information

SCHEDULED WEIGH 1300lbs

Approx. Op./Ship Weights:	*1317 lbs / 1317 lbs (±5%)*
Ambient Temperature (DB/WB):	*102.0 °F / 75.0 °F*
Coil Filter FV / Qty:	*202.5 fpm / 4*
Min. Room Area/Height/Airflow**:	*516 ft² / 7 ft / 931 SCFM*
Exhaust Airflow/ESP/TSP:	*1800 SCFM / 0.05 in. w.g. / 0.12 in. w.g.*
Outside Air Prefilter FV / Qty:	*103.8 fpm / 1*
Supply Airflow/ESP:	*1800 SCFM / 1.68 in. w.g.*
Outside Airflow:	*300 SCFM*
Return Temperature (DB/WB):	*80.3 °F / 66.2 °F*
Economizer:	*0.12 in. w.g.*
Heater:	*0.02 in. w.g.*
Cabinet:	*0.06 in. w.g.*
Total:	*2.46 in. w.g.*

Heating Section

Preheat Type:	*Std (No Preheat)*
Integrated Heat Capacity:	*34.6 MBH*
Primary Heat Type:	*Heat Pump*
Total Capacity:	*37.9 MBH*
OA Temp (DB/WB):	*15.0 °F / 9.0 °F*
RA Temp (DB/WB):	*75.0 °F / 62.0 °F*
Entering Air Temp (DB/WB):	*65.0 °F / 55.9 °F*
Leaving Air Temp (DB/WB):	*83.3 °F / 62.5 °F*
Input (Emergency/Aux):	*20.0 kW / 10.0 kW*
Fan Temp Rise:	*2.2 Δ°F*
Auxiliary Heating Type:	*Electric Heat*
Heating Airflow:	*1800 SCFM*
Emergency Capacity:	*20.0 kW*
Auxiliary Capacity:	*10.0 kW* AUX HEAT OPERATES WHILE HEAT PUMP IS IN OPERATION
Emergency Entering Air Temp (DB/WB):	*65.0 °F / 55.9 °F*
Emergency Leaving Air Temp (DB/WB):	*101.2 °F / 68.2 °F*
Auxiliary Entering Air Temp (DB/WB):	*83.3 °F / 62.5 °F*
Auxiliary Leaving Air Temp (DB/WB):	*101.4 °F / 68.3 °F*
Electric Heat FLA:	*24.1*

Re-heat Coil:

Capacity:	*36.7 MBH*
Leaving Air Temp (DB/WB):	*75.0 °F / 62.0 °F*
Relative Humidity:	*48.7%*

Rating Information

Listing Model	*RN-006-3-0-GBAC-V0-21-000-A*
Cooling Capacity:	*65.0 MBH*
Cooling EER:	*12.74 BTU/h·W*
Cooling IEER:	*14.5 BTU/h·W*

**Rated in accordance with AHRI Standard 340/360 (I-P)*

Application EER @ Op. Conditions:	***9.5 BTU/h·W***
Application COP @ Op. Conditions:	***2.08 W/W***
Application COPH @ Op. Conditions:	***3.78 W/W***

Heating High Temp Capacity:	*535.0 MBH*
Heating High Temp COP:	*3.78 W/W*
Heating Low Temp Capacity:	*29.5 MBH*
Heating Low Temp COP:	*2.522 W/W*

Electrical Data

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Ecat Price Version: 361

Circuit 1

Rating:	*460V/3Ø/60Hz*	*Minimum Circuit Amp:*	*39*
Unit FLA:	*31*	*Maximum Overcurrent:*	*40*
SCCR:	*10 KAIC*		

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	*1*		*460*	*3*			*9.0*
Condenser Fan:	*2*	*0.33*	*460*	*1*	*1100*	*1.6*	
Supply Fan:	*1*	*3.00*	*460*	*3*	*1760*	*4.8*	
Exhaust Fan:	*1*	*1.00*	*460*	*3*	*1760*	*2.1*	

Cabinet Sound Power Levels*

Octave Bands:	**63**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**
Discharge LW (dB):	*83*	*81*	*85*	*80*	*72*	*70*	*68*	*62*
Return LW (dB):	*80*	*75*	*74*	*66*	*63*	*59*	*54*	*45*

**Sound data is generated by a propriety acoustics model validated through unit testing in accordance with AHRI 260, utilizing tested fan sound data in accordance with AMCA 300.*

*****The minimum floor area for the Lower Flammability Limit (LFL) is calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.***

HEAT PUMP Performance Data Table

Outside Air		Mixed Air		Leaving Air		Heat Pump Capacity	Heat Pump Integrated Capacity	Heat Wheel Heating Capacity	Heating COP
DB °F	WB °F	DB °F	WB °F	DB °F	WB °F	MBH	MBH	MBH	W/W
62.0	56.2	72.8	61.1	115.6	74.0	79.7	79.7		3.44
57.0	51.6	72.0	60.4	111.6	72.6	73.9	73.9		3.32
52.0	47.1	71.2	59.8	107.8	71.3	68.5	68.5		3.20
47.0	42.6	70.3	59.2	104.2	70.1	63.3	63.3		3.07
42.0	38.0	69.5	58.7	100.8	68.9	58.7	58.7		2.94
37.0	33.5	68.7	58.2	93.6	66.6	54.5	46.8		2.45
32.0	28.8	67.8	57.7	91.3	65.7	50.4	44.1		2.38
27.0	24.3	67.0	57.3	89.0	64.9	46.7	41.4		2.30
22.0	19.7	66.2	56.8	86.7	64.0	43.1	38.7		2.22
17.0	15.0	65.3	56.4	84.5	63.2	39.9	36.3		2.14
12.0	10.4	64.5	56.0	82.4	62.4	36.9	33.8		2.06
7.0	5.7	63.7	55.6	80.2	61.6	34.0	31.3		1.97
2.0	0.1	62.8	55.2	77.9	60.7	31.1	28.6		1.86
0.0	0.0	62.5	55.1	77.4	60.7	30.7	28.3		1.85

**Invalid operation point - Compressor operating outside of operating envelope*
***Electric preheat is used to maintain the entering air temperature when applicable.*

18.5" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PHP_L01*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*2200*
Diameter x Qty:	*18.5 in. x 1*
CFM:	*1800*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*1800*
Fan Energy Index (FEI):	*1.08*
Static Pressure:	*2.46 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*2.57 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*2.57 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*3 x 1 / No*
Frame Size:	*182T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*460V/3Ø/60Hz*
Enclosure Type:	*TEFC*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE:

RPM:	*1719*
BHP:	*1.48*
Efficiency:	*47.17%*
Max Duct SP with Blocked Airway:	*0 in. Wg @1719 RPM*

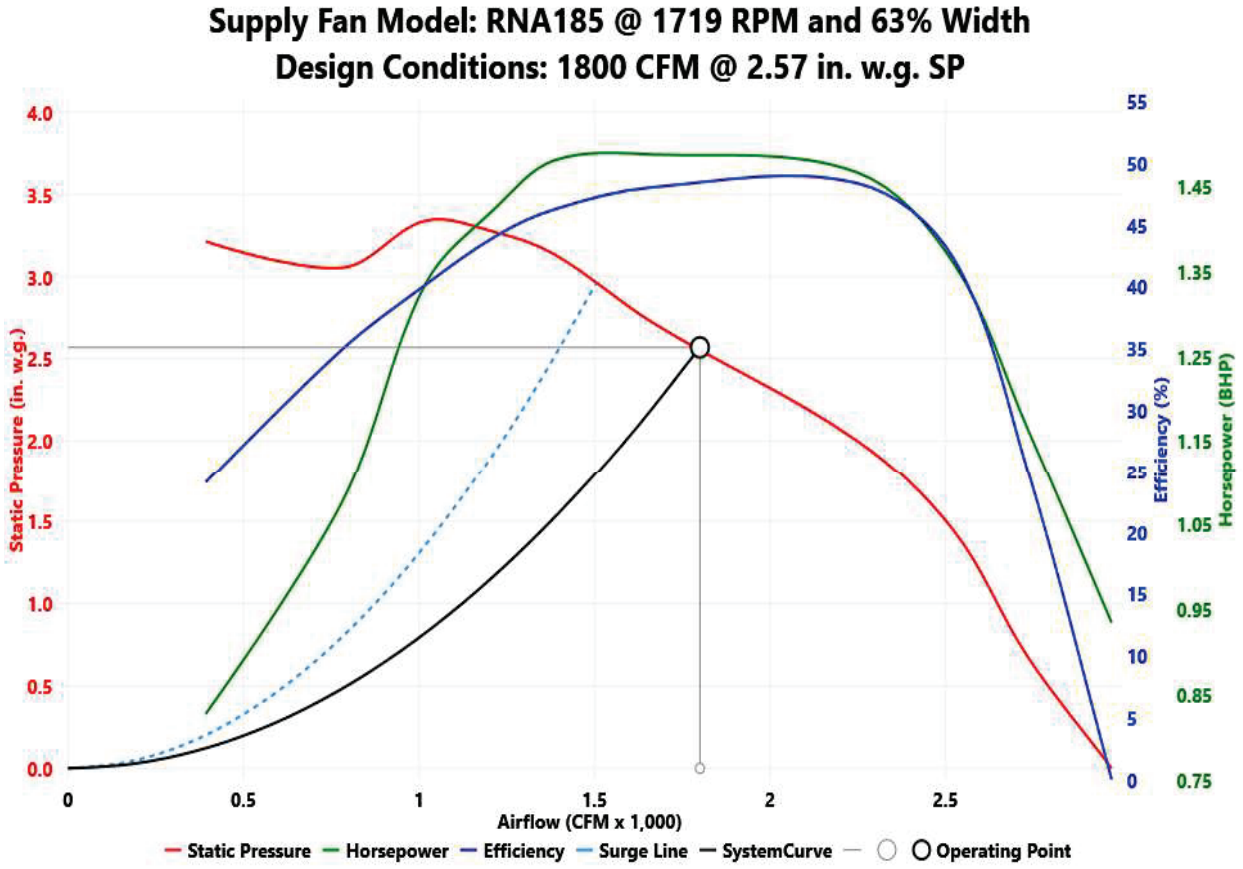
Max Duct SP with Blocked Airway:

FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
83	81	85	82	75	74	72	66
83	81	85	82	75	74	72	66

SOUND POWER A-Weighted: 84 dB



11" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PHP_L01*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*1440*
Diameter x Qty:	*11 in. x 1*
CFM:	*1800*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*1800*
Fan Energy Index (FEI):	*1.03*
Static Pressure:	*0.12 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*0.12 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*0.12 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*1 x 1 / No*
Frame Size:	*143T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*460V/3Ø/60Hz*
Enclosure Type:	*TEFC*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE

RPM:	*580*
BHP:	*0.29*
Efficiency:	*11.74%*
Max Duct SP with Blocked Airway:	*0 in. Wg @580 RPM*

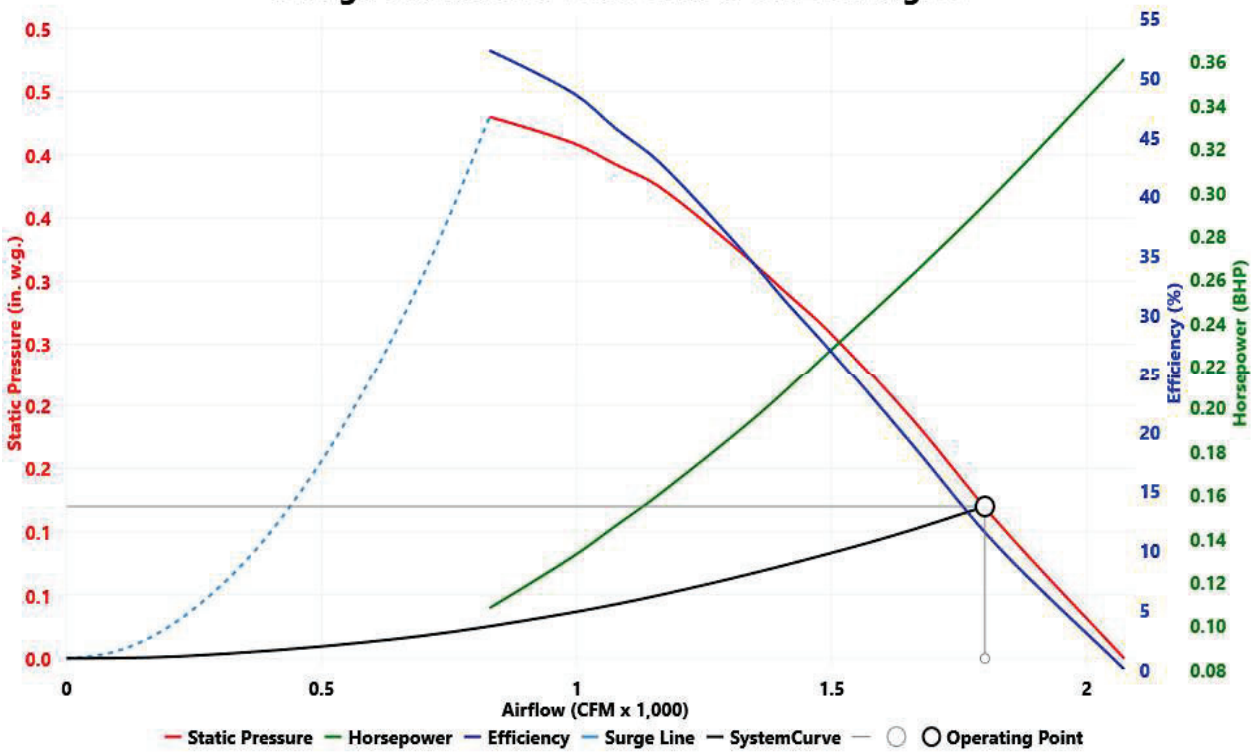
Max Duct SP with Blocked Airway:

FAN SOUND POWER (Inlet/Outlet)

Octave Band:							(Re 10^-12 watts)
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
79	70	64	65	57	52	47	43

SOUND POWER A-Weighted: dB

Exhaust Fan Model: RM12X9 @ 580 RPM and 100% Width
Design Conditions: 1800 CFM @ 0.12 in. w.g. SP



Unit Submittal

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

RNA-006-A-A-3-GJATA-A02NA:00-0ACLG-G00-00000-ABGME-DC-000
A-00-Q0-0-AN0-EB-HA0A-00-000-B00B00-G0000B-000000C

Tag: *PHP_L01*

Job Name:	***Bentonville WRRF***	**Unit Worksheet For:**	
Job Number:	***Bentonville WRRF***	**Unit Worksheet Date:**	***11/11/2025***

	Base Option	Description
RN	Generation	RN Series
A	Major Revision	Major Revision A
006	Unit Size	Six
A	Series	A Series
A	Minor Revision	Minor Revision A
3	Voltage	460V/3φ/60Hz
G	Compressor Style	R-454B Variable Capacity Scroll Compressor ←
J	Condenser Style	Alpha Class - Air-Source Heat Pump
A	Indoor Coil Configuration	Standard Evaporator
T	Cooling Heat Exchanger Construction	Stainless Steel Evap. Coil Casing + Polymer E-Coated Evap. And Cond. Coils
A	Cooling Staging	1 Variable Capacity Comp
A	Heat Type	Electric Heat (Vertical Unit Configuration)
0	Heat Construction	Standard
2	Heat Designation	20 kW
N	Heat Staging	Modulating SCR Electric - Temperature Control
A	Heat Pump Auxiliary Heating	Auxiliary Heat - 10kW - Modulating

	Feature Option		Description
0	F1.	Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	F2.	Supply & Return Locations	Bottom Supply--Bottom Return
0	F3A.	Supply Fan Quantity	1 Fan
A	F3B.	Supply Fan Configuration	1 Fan per VFD + Full Width Fan
C	F3C.	Supply Fan Size	18.5" Direct Drive Backward Curved Aluminum
L	F3D.	Supply Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
G	F3E.	Supply Fan Motor Size	3 hp
G	F4A.	Outside Air Section	Economizer + Power Exhaust
0	F4B.	Energy Recovery Type	No Energy Recovery
0	F4C.	Energy Recovery Size	No Energy Recovery
0	F5A.	Return Fan Quantity	0 Return Fans
0	F5B.	Return Fan Configuration	No Return Fan
0	F5C.	Return Fan Size	No Return Fan
0	F5D.	Return Fan Motor Type	No Return Fan
0	F5E.	Return Fan Motor Size	No Return Fan
A	F6A.	Exhaust Fan Quantity	1 Fan
B	F6B.	Exhaust Fan Configuration	1 Fan per VFD + Full Width Fan
G	F6C.	Exhaust Fan Size	12x9 Forward Curved
M	F6D.	Exhaust Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
E	F6E.	Exhaust Fan Motor Size	1 hp
D	F7.	Outside Air Control	Fully Modulating Actuator - Dual Enthalpy Limit + Dry Bulb temp Sensor
C	F8.	Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	F9A.	Unit Filter Type	2" Pleated - MERV 8 PLUS [2] EXTRA SET PER SPEC 15650-2.05.A.3.
0	F9B.	Unit Filter Size & Location	Standard Filters in Standard Position
0	F9C.	Final Filter Type	No Final Filters
A	F9D.	Filter Options	Clogged Filter Switch - Unit Filters
0	F10A.	Refrigeration Control A	Standard - Adj Comp. Cooling Lock Out Through Unit Controls

	Feature Option		Description
0	F10B.	Refrigeration Control B	Standard
Q	F11A.	Refrigeration Options A	Modulating Hot gas Reheat [MHGR]-MC - Polymer E-Coated
0	F11B.	Refrigeration Options B	Standard Packaged Unit
0	F12.	Refrigeration Accessories	None
A	F13A.	Unit Disconnect Type	Single Point Power - Non-fused Disconnect Power Switch
N	F13B.	Disconnect 1 Size	100 Amps
0	F13C.	Disconnect 2 Size	Standard - None
E	F14.	Safety Options	Remote Safety Shutdown Terminals
B	F15.	Electrical Accessories	Phase & Brown Out Protection
H	F16A.	Control Sequence	Constant Air Volume Heat Pump Unit Controller - CAV Cool + CAV Heat
A	F16B.	Control Supplier	AAON Controls
0	F16C.	Control Supplier Options	None
A	F16D.	BMS Connection & Diagnostics	BACnet IP or MSTP
0	F17A.	Preheat Configuration	Standard - None
0	F17B.	Preheat Sizing	Standard - None
0	F18A.	Option Box Location	None
0	F18B.	Option Box Size	None
0	F18C.	Option Box Accessories	None
B	F19.	Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20.	Cabinet Options	Standard - None
0	F21.	Accessories	Standard
B	F22.	Maintenance Accessories	Field Wired 115V Convenience Outlet
0	F23.	Code Options	Standard - ETL U.S.A. Listing
0	F24.	Shipping Splits	Standard
G	F25.	Air-Cooled Condenser Accessories	Cond Coil Guards + ECM Condenser Fan Head Pressure Control
0	F26.	Evap-Cooled Condenser Accessories	Standard
0	F27.	Water-Cooled Condenser Accessories	None
0	F28.	Energy Recovery Accessories	None
0	F29.	VFD Options	Standard
B	F30.	Miscellaneous Options	SCCR (10kA)
0	F31.	Blank	Standard
0	F32.	Blank	Standard
0	F33.	Blank	Standard
0	F34.	Blank	Standard
0	F35.	Warranty	Standard Warranty
0	F36.	Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
C	F37.	Specials & Paint	Premium AAON Gray Paint Exterior Paint + HERESITE P-413 Interior Corrosion Protection

Controller Components

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Ecat Price Version: 361

A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 1 2 3A 3B 3C 3D 3E 4A 4B 4C 5A 5B 5C 5D 5E 6A 6B 6C 6D 6E 7 8 9A 9B 9C

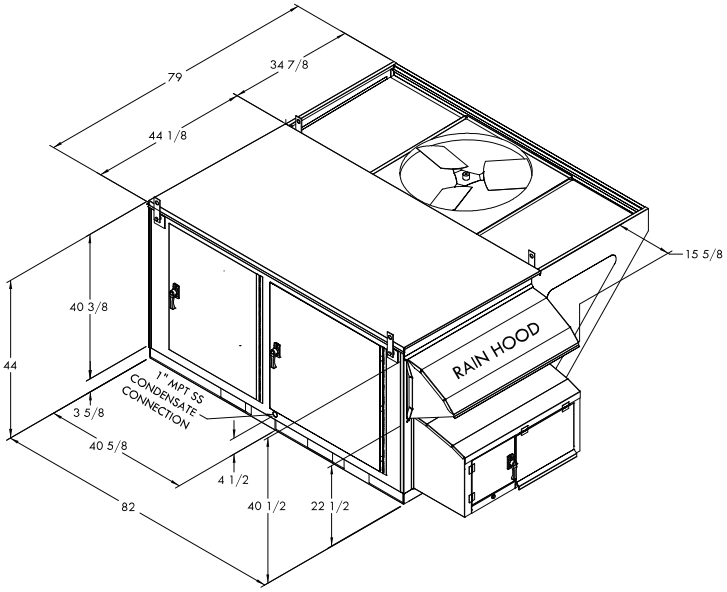
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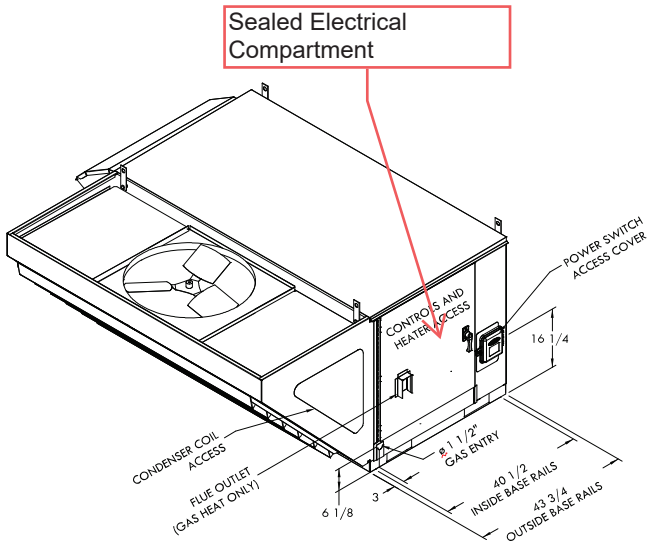
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Tag: PHP_L01

Job Name: Bentonville WRRF
Job Number: Bentonville WRRF
For:
Date: November 11, 2025

Part#	Included Parts	Assigned Channel	BACnet Point
ASM07503	VCCX-454 CONTROLLER		
ASM01692	OSA Temp/Hum Sensor	EBUS2 Communicating Sensor	AI:16,AI:17,AI:18,AI:19
R82890	Supply Temp Sensor - Field Installed	VCCX Control Point AI3	AI:9
ASM01820	Space Digital Temp/Hum Sensor	EBUS3 Communicating Sensor	AI:12,AI:13
ASM01832	Building Pressure Sensor	VCCX Control Point AI5	AI:23
	Supply Fan Control Signal 0-10VDC	VCCX Control Point AO1	AI:22
	Economizer	VCCX Control Point AO2	AI:30
	Modulated Heating (0-10VDC)	VCCX Control Point AO3	AI:35
	Building Pressure Control Signal	VCCX Control Point AO4	AI:24
R62330	Proof of Air Flow	VCCX Control Point BI1	BI:6, BI:24
G150620	Clogged Filter Switch (Standard Filters)	VCCX Control Point BI2	BI:25
	A2L Airstream Leak Detect Status	VCCX Control Point BI5	BI:9
	Safety Shut Down	VCCX Control Point BI8	BI:26
	Supply Fan	Configured Relay Point	BI:0
	Exhaust Fan	Configured Relay Point	BI:1
	Heat 1	Configured Relay Point	BI:2
ASM07563	A2L MITIGATION BOARD 1		
G137750	Gas Sensor 1	A2L MB1 AI1	
	Supply Fan Proof of Flow	A2L MB1 BI1	
	Alarm Output	A2L MB1 Fixed RO3	
ASM07716	REFRIGERATION MODULE		
V38391	Suction Pressure Sensor A	RM454-D SP-1	AI:48
V38410	Discharge Pressure Sensor A	RM454-D HP-1	AI:50
	Comp Discharge Temp A	RM454-D TEMP1	AI:66
	Modulated Condenser Signal A	RM454-D AOUT1	AI:46
G017740	O.D. Coil Defrost Temp Switch	RM454-D BIN3	BI:81
	Comp Status Input A	RM454-D BIN1	BI:77
	Emergency Shutdown	RM454-D BIN4	BI:83
	Comp Enable A	RM454-D RLY1	BI:84
	Comp Unload Signal A	RM454-D COMP1	AI:44
	Reversing Valve Enable	RM454-D RLY5	BI:88
ASM01670	MODULATING HOT GAS REHEAT MODULE		
	Reheat HGR Valve	MHGRV-X	AI:42

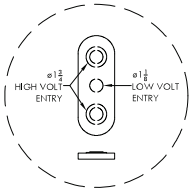




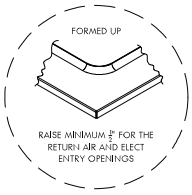
ALL DIMENSIONS IN INCHES

RN A-CABINET ALPHA CLASS HEAT PUMP
AIR COOLED WITH ECONOMIZER, POWER EXHAUST

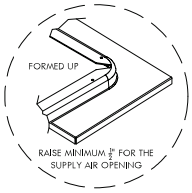
Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L01	RNA-00017



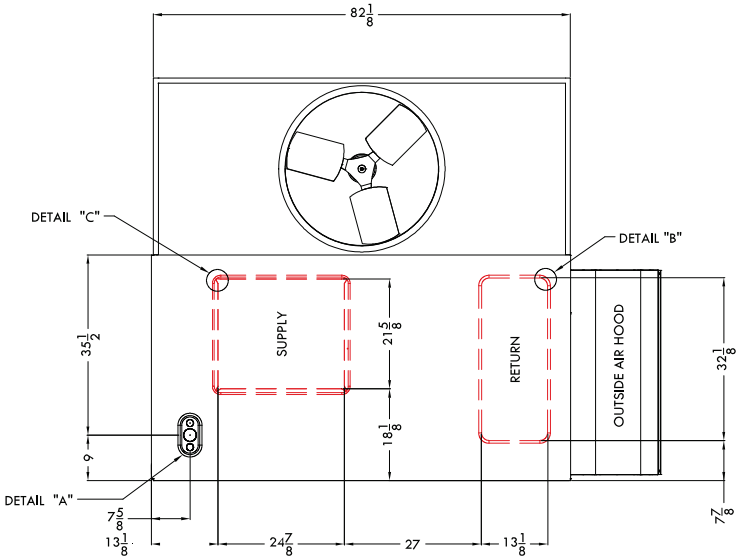
DETAIL A
UTILITY ENTRY

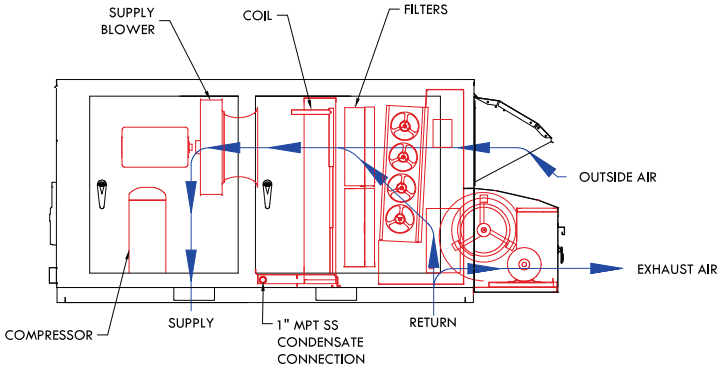


DETAIL B
RETURN AIR AND UTILITY
ENTRY OPENINGS



DETAIL C
SUPPLY AIR OPENING





ALL DIMENSIONS IN INCHES

RN A-CABINET ALPHA CLASS HEAT PUMP
AIR COOLED WITH ECONOMIZER, POWER EXHAUST

Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L01	RNA-00017

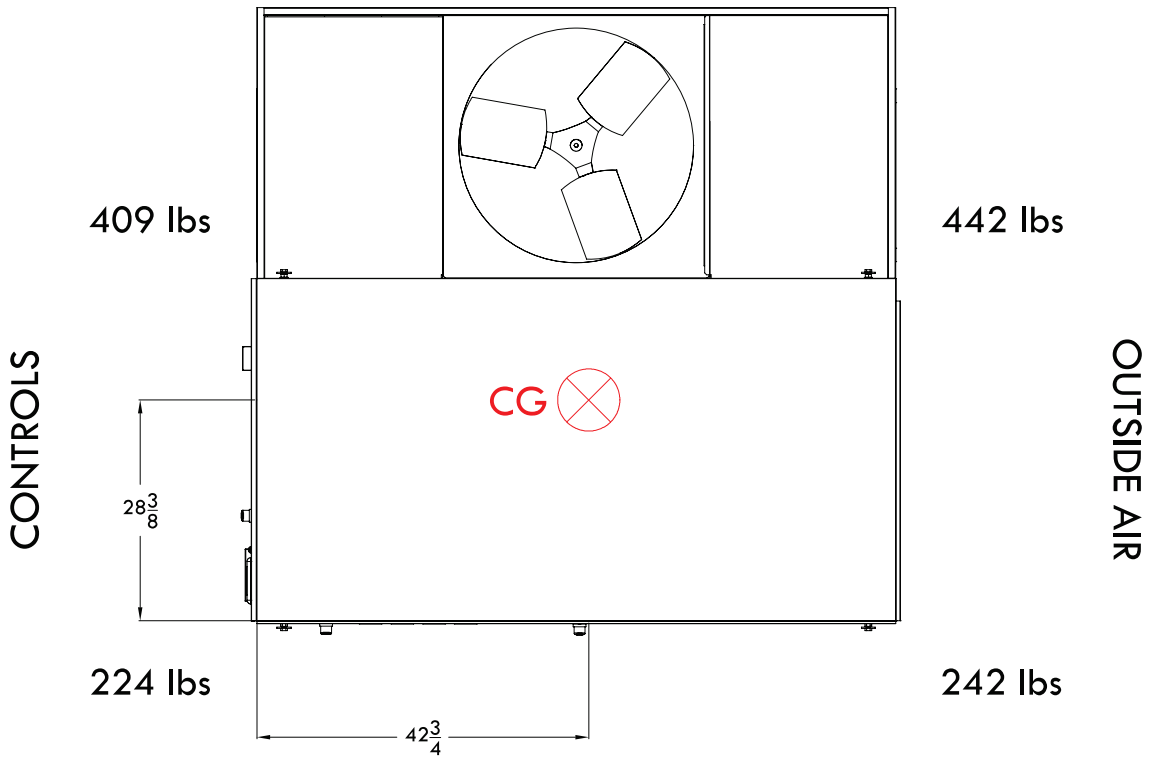
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Shipping Weight: 1317 lbs ±5%

Operating Weight: 1317 lbs ±5%

Center of Gravity (X, Y): 42.7 in, 28.4 in

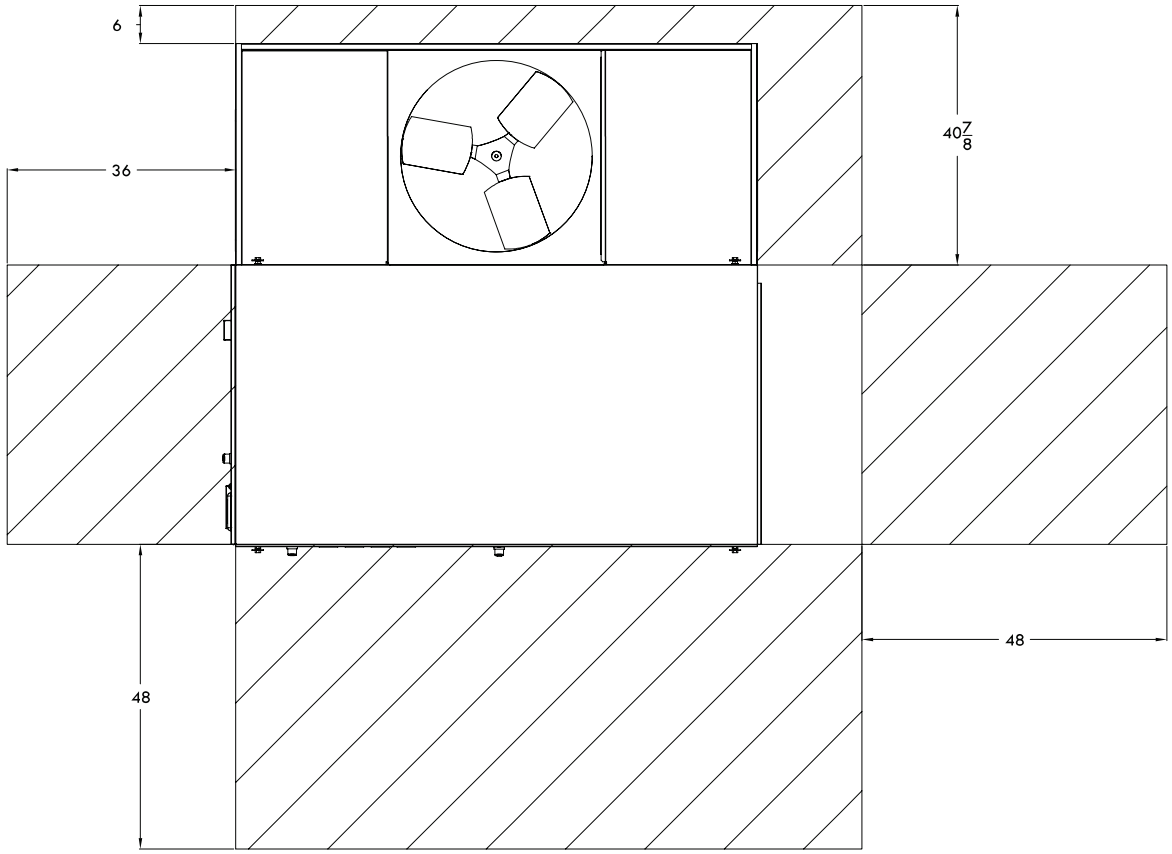
LEFT



RIGHT

ALL DIMENSIONS IN INCHES

α AAON	UNIT CORNER WEIGHTS AND CG		
	Job Name: Bentonville WRRF	Unit Tag: PHP_L01	Drawing No.: RNA-00017



ALL DIMENSIONS IN INCHES

UNIT CLEARANCES

Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L01	RNA-00017

Heresite P-413

Our 50 years of coating history speaks for itself.

In 1964, Heresite was the first company to apply coatings to aluminum-finned, copper-tubed heat exchangers. The Heresite coating became then, and still remains a standard in the industrial coatings industry. We provide the highest quality protective coatings for air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. Our phenolic epoxy has an advantage of dense cross linking and can therefore be applied as a very thin film maintaining stable heat transfer.

We continue our focus on innovation and again have a new story to tell, as we introduce our updated P-413

- A high performance phenolic epoxy coating developed specifically for heat exchangers.
- The flexibility and corrosion resistance of Heresite P-413 appreciably increases the service life of your heat exchange equipment.
- It is specially suited for coating light gauge metals in equipment operating in severe corrosive environments.

P-413 Specifications

The coil will receive a uniform coating on all surfaces, including fin edges, with P-413, a thermoset, modified phenolic coating. Application of P-413 will be through multiple coats by immersion or flow coating to a film thickness of approximately 1.0 mil.

P-413 provides corrosion protection in a 6,000 hour salt spray test in accordance with ASTM B-117 and humidity resistance of >2,000 hours per ASTM D2247. Chemical resistance is demonstrated via 100+ acetone double-rubs per ASTM 5402. P-413 also exhibits superior hardness of 5–6H per ASTM D3363, adhesion of 5B per ASTM B3359 and impact resistance of 160 in/lbs (ASTM D2794). Color shall be brown with gloss of 20–60 — 60 degree. If the coils are to be subjected to direct ultraviolet (UV) exposure, a spray-applied UV-resistant topcoat is an option.

Effective date: 10/09/17

P-413 Typical Properties (@ 1 mil DFT)

Salt Spray: ASTM B-117: 6,000+ hours

SWAAT: ASTM G85-11 Section A.3: Passed 1,000 hours using pressurized coil (see page 2 for results)

Cyclic Weathering: ISO 20340 Offshore Standard: Passed (4,200 hours)

Performance Testing: ISO 12944-6 C5 I/M: Passed C5-M high durability and C5-I high durability

Heat Transfer Reduction: <1% as applied for heat transfer components

Humidity: ASTM D-2247: 2,000+ hours

Simulated Sea Water Resistance: 2,000 hours

Solvent Resistance: ASTM-D5402: 100 acetone double rubs

Cross-hatch Adhesion: ASTM D-3359: 5B

Mandrel: ASTM-D522: >1/4 inch

Impact: ASTM D-2794: 160 lb/inch steel; 40 lb/inch aluminum

pH Range (14 day liquid spot test): 2.4–12.6

Temperature Cycling (4 hours at –75°C; 4 hours at 190°C): 4B–5B adhesion after 5 cycles

Dry Heat Resistance (4 hours at 200°C; 20 minutes at 232°C): 4B–5B adhesion after 5 cycles

Dry Film Thickness: ~1 mils

Hardness: ASTM D3363: 5–6H

Gloss: 20–60 on 60 degree meter (topcoat dependent)

Microchannel Compatible

Abrasion Resistance: 30–40 mg loss per 1,000 cycles

Meets FDA 175.300 for indirect food contact

Meets MIL Spec: MIL-C-18467, MIL-E-480 and MIL-STD-883 Method 1101

Meets Other Specs: Honeywell MC 7200-01 and GE F50T17

Thermal Conductivity: At approximately 2 mils thickness, Thermal Conductivity is less than 1.0 w/mK

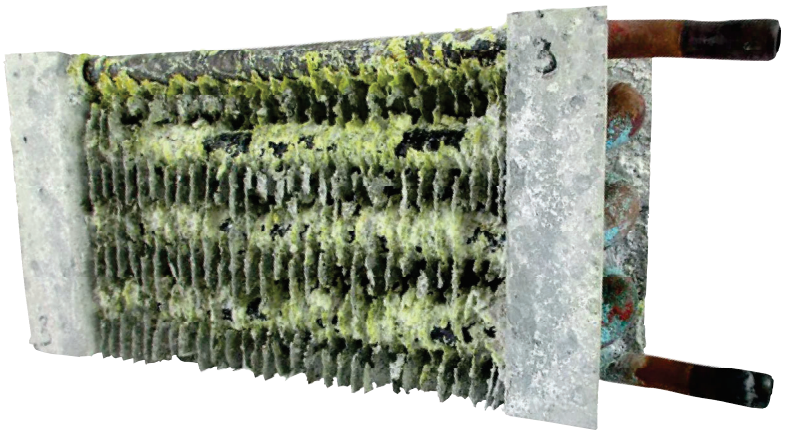
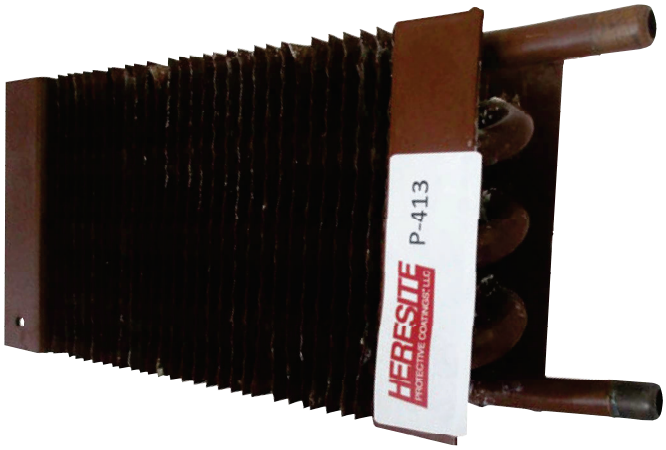
Dielectric Strength [ISO2376:2010(e)]: 286 volts per mil of thickness

NSF Certified – ANSI 51 Certification of Coatings for Food Zone – Non Contact

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HERESITE® PROTECTIVE COATINGS, LLC

SWAAT Results

	**Bare 1,000 hour SWAAT**
	**P-413 1,000 hour SWAAT**
	**P-413 + topcoat 1,000 hour SWAAT**

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Product Description
Baking cross-linked phenolic epoxy

Recommended Uses
Heresite P-413 is a high performance coating used principally for heat transfer components and parts — especially air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. This phenolic epoxy has an advantage of dense cross linking and are therefore highly corrosion resistant even when applied as a very thin film.

Chemical Resistance
P-413 is chemically resistant to a wide range of acids, solvents, and inorganic salts. Please review chemical resistance guide for further information.

Packaging Information
P-413 is available in one gallon, five gallon and 54 gallon drum quantities.

Thinners and Cleanup
Recommended use of Heresite S-275.

Storage Conditions
Coating should not be stored longer than 6 months. Coating should be stored in a clean, dry environment at 50–75°F. Keep out of direct sunlight. Avoid excessive heat and keep from freezing.

Physical Properties
Solids by weight: Approximately 73%

Solids by volume: Approximately 57%

Pot life: NA

Mixing Ratio by Volume: NA 1 component

Shelf life: 6 months

Color: Brown

VOC Content
2.25 lbs/gal (270 g/L) as supplied

Film Thickness
For heat transfer, a 2 coat immersion process will typically yield a dry film thickness of 1.0–2.0 mils (25–50 microns).

For other parts, please contact Heresite.

Coverage
Theoretical coverage is 800 square feet per gallon per dry mil. Coverage rates are estimates and make no allowance for material loss. Actual rates will vary dependent on application method, surfaces, etc.

Surface Preparation
All surfaces must be clean, sound, and free of any oils, dirt, grease, wax and any other contamination that may interfere with coating adhesion.

In general, the surface should be cleaned by solvent or a cleaner at elevated temperature followed by a clean water rinse. Rinse water shall have a conductivity of lower than 500 microsiemens and a neutral pH (7.0–8.0). All surfaces must be dried prior to application of coating.

In cases where there is a large amount of contamination or heat treated steel, a commercial blast is acceptable in accordance with NACE #3 or SSPC-SP-6-63 specifications. Surface profile or anchor pattern shall be 20–25% of the recommended dry film thickness.

Thinning
Reduce P-413 with S-275 solvent to 13–13.5 seconds on ISO Dip 3 mm Cup. This requires approximately a 1:1 dilution by volume.

The amount of thinner required is dependent upon temperature, ventilation, humidity, application type and desired film thickness.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Application

Application is specific to heat transfer components, for other parts — please contact Heresite.

Immersion Application:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Consult Heresite for tank and pump recommendations.
4. Ensure as the part is prepared for immersion, one will have a low point for drainage.
5. Immerse the cleaned part for 15 seconds in the reduced P-413.
6. Upon removal of the part from the coating, apply light air pressure (approximately 15 psi) using an Air Knife or similar device to spread the air flow. Using the compressed air, remove excess coating. Minimal brushing should be required.
7. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
8. Typically, a two coat immersion process is required to achieve 1.0 to 1.5 mil DFT. An intermediate bake is required between coats — see baking schedule.
9. It may be deemed desirable to apply a final aesthetic spray. This can be accomplished immediately after the final immersion is accomplished and prior to final bake.
10. During immersion application, the viscosity must be maintained and monitored. It is recommended that the viscosity be checked every hour to ensure compliance with the specification of 13–13.5 seconds. Additional solvent and coating can be added to adjust viscosity as needed.

Spray Application for Final Aesthetic Spray:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective.
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Typically, a one coat process is required to achieve 0.5 to 1.0 mil DFT.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Spray Application for Higher Film Build — 4–6 mil:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective (13.0–13.5 seconds ISO Dip 3 mm).
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film. Allow a minimum of 10 minutes to allow the slow solvents to evaporate. Then apply another 2–3 crisscross multi-passes.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Intermediate bake at 130°C (metal temperature) for a minimum of 10 minutes.
12. Repeat steps 7–10.
13. Final bake per the instructions within the bake schedule.
14. Typically, a two to three coat process is required to achieve 4.0 to 6.0 mil DFT.

Bake Schedule

Intermediate Bake:

1. 90°C (metal temperature) for a minimum of 10 minutes.
   a. To decrease the bake time, a maximum temperature of 130°C may be used.

Final Bake:

1. "Normal" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 15 minutes, then increased to 190°C. 190°C (metal temperature) held for 45 minutes.
2. "Soft Solder" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 130 minutes.

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKERS MUST WEAR FRESH AIR LINE RESPIRATORS. PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMERS SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESS OR IMPLIES, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

HERESITE

PROTECTIVE COATINGS®
LLC

Chemical Resistance Guide

Test data for the products published in this guide are determined by immersion of a coated panel in the chemical being tested. Additional information on the coating's resistance is achieved through the coating's history in actual service environments.

Temperature and concentration data are not necessarily the maximum operating conditions. They are the temperature and concentrations at which the specified coating system has been tested. The coating system may be suitable for higher temperatures and different concentrations but additional information or testing would be required.

Date: May 2019
(supersedes all previous copies)

To the best of our knowledge, the technical data contained herein is true and accurate at the date of insurance and are subject to change without prior notice. User must contact laboratory to verify corrections before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance, or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost are subject to change without prior notice. **NO OTHER GUARANTEE OF ANY KIND IS MADE BY SELLER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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HERESITE PROTECTIVE COATINGS, LLC

Key to the Guide

A	Coating is resistant, for continuous immersion, against attack from the chemical listed
B	Coating is resistant against attack from fumes of the chemical listed. For immersion service of the chemical please refer to a coating with an **A** or **LR** listed or contact Heresite Protective Coatings.
C	Coating will provide the necessary 72 hours resistance required for secondary containment. Coatings are not recommended for continuous immersion.
LR	Limited Recommendation, contact Heresite Protective Coatings, Inc. for assistance.
NR	Coating is not recommended for the service conditions.
Blank	Coating has insufficient test data for the service conditions.

Coatings are continuously being tested in a wide rage of service conditions. If you condition is not among the ones listed contact Heresite Protective Coatings at 920-684-6646 for assistance.

Coatings Included in This Guide

P-403L	High bake phenolic. P-403L offers excellent resistance to solvents, acids and salts, including 70-98% sulfuric acid at tmperatures up to 120F.
P-403L/L-66L	High gloss phenolic system designed for use when abrasion and release properties are required. This system utilizes P-403L as the primer and L-66L as the topcoat.
EP-6379	Baked epoxy phenolic. EP-6379 is resistant to a wide range of pH environments found in fume control devices, chemical, drill, process pipes and is also used in storage and ISO tanks.
P-413	Modified baked phenolic designed for HVAC equipment and light gauge metal. In addition to marine and salt air environments, the P-413 family of coatings will withstand exposure to an extensive variety of corrosive and chemical fumes and condensate.
VR-514	Air dry phenolic. Excellent for resistance to corrosive fume atmospheres and is particularly good in marine and salt air environments. Typical applications include swimming pools, waste water, marine environments and as a general maintenance coating.
UC-5500 Series	Polyurethane. Formulated as a top coat for other Heresite coatings with outstanding UV resistance with excellent weathering qualities, along with good flexibilit yand good abrasion resistance.

For further information, please contact Heresite Protective Coatings, Inc.

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HERESITE PROTECTIVE COATINGS, LLC

Chemical Synonyms

Common Name	Chemical Name
Alum	Aluminum Sulfate
Barite	Barium Sulfate
Baking Soda	Sodium Bicarbonate
Bleach	Sodium Hypochlorite
Calcite	Calcium Carbonate
Caustic	Sodium Hydroxide
Caustic Potash	Potassium Hydroxide
Chalk	Calcium Carbonate
Cupric, Cuprous	Copper II & Copper I
Dental Gas	Nitrogen I Oxide
Diuretic Salt	Potassium Acetate
Dry Ice	Carbon Dioxide
Epsom Salt	Magnesium Sulfate
Ferric, Ferrous	Iron III & Iron II
Graphite	Carbon

Common Name	Chemical Name
Laughing Gas	Nitrogen I Oxide
Lime	Calcium Oxide
Lye	Sodium Hydroxide
Magnesia	Magnesium Oxide
Methylene Bromide	Methane Dibromide
Methylene Chloride	Methane Dichloride
Muriatic Acid	Hydrochloric Acid
Potash	Potassium Carbonate
Phenol	Carbolic Acid
Phosgene	Carbonyl Chloride
Pyrite	Iron Disulfide
Soda Ash	Sodium Carbonate
Stannic, Stannous	Tin
Sulphate	Sulfate
Table Salt	Sodium Chloride

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Acetaldehyde		60ºF	A			B	NR
Acetaldehyde		100ºF	A			B	NR
Acetic Acid	5%	100ºF	LR			B	
Acetic Acid	10%	70ºF	LR	LR	B	B	NR
Acetic Acid	10%	100ºF	LR	LR	B	B	NR
Acetic Acid	10%	150ºF	B	B	B	B	NR
Acetic Acid	25%	70ºF	LR	LR	LR	B	NR
Acetic Acid	25%	150ºF	B	B	NR	B	NR
Acetic Acid	50%	100ºF	LR	LR	NR	B	NR
Acetic Acid	50%	120ºF	LR	NR	NR	B	NR
Acetic Acid	50%	150ºF	LR	NR	NR	B	NR
Acetic Acid	56%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	120ºF	B	B	NR	B	NR
Acetic Acid	100%	150ºF	B	B	NR	B	NR
Acetic Acid, Glacial		70ºF	B	B		B	
Acetic Acid, Vapors		350ºF	A	A			NR
Acetic Acid100% & ½% Sulfuric Acid		77ºF	B	B			
Acetic Anhydride	100%	70ºF	A	A		B	NR
Acetic Anhydride/ Acetic Acid (50%/50%)		175ºF		NR			
Acetone		70ºF	A	A	A	B	NR
Acetone		100ºF	A	A	B	B	NR
Acetone		134ºF	A	A	B	B	NR
Acetophenone		100ºF	A				
Acetylene		150ºF	A	A		B	B
Acid Copper Bath		150ºF				B	B
Acid-Klenz (Klenzode Products)		100ºF	A				
Acrylamide		100ºF	A				
Acrylic Latex 103-100		150ºF	A	A		B	
Acrylic Syrup		100ºF	A				
Acrylonitrile		70ºF	A	A		B	
Acrylonitrile		171ºF	A	A			
Activated Carbon, Slurry		70ºF	A				
Adipic Acid/Ethyl Alcohol 60%/40%		70ºF	A			B	
Agree® Shampoo	100%	150ºF	A	A	A		
Alcohol Mash (distillery)		210ºF	A	A		B	B
Alcolated Cresol		180ºF	A				
Alkaline Electrotinning		150ºF				B	B
Alkyl Benzene		100ºF	A			B	
Alkyl Chloroformate	100%	68ºF	A			B	
Alkylaryl Sulfonate	2%	70ºF	A	A			

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HERESITE PROTECTIVE COATINGS, LLC

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Alkylaryl Sulfonate	2%	100ºF	A	A			
Alkylaryl Sulfonate	100%	100ºF	A	A			
Alkylaryl Sulfonate	100%	151ºF	NR				NR
Allyl Alcohol		100ºF	A	A		B	
Allyl Chloride	100%	68ºF	A	A			
Allyl Gylcidyl Ether		70ºF	A				
Aluminum Acetate	5%	100ºF	A				
Aluminum Chloride	10%	150ºF	B	A		B	B
Aluminum Chloride	11%	120ºF	B	A		B	B
Aluminum Chloride	25%	150ºF				B	B
Aluminum Chloride	100%	70ºF	B	LR		B	B
Aluminum Chloride/Benzene	13%	70ºF	B				
Aluminum Chlorhydrate		120ºF	A	A	A	B	
Aluminum Fluoride	5%	100ºF				B	B
Aluminum Fluoride	5%	150ºF				B	B
Aluminum Nitrate	50%	70ºF	B			B	B
Aluminum Oxide (in Sulfuric Acid)		120ºF	A	A	A	B	
Aluminum Oxide (Trihydrate)		120ºF	A	A	A	B	
Aluminum Sulfate	46½%	70ºF	LR	A	A	B	B
Aluminum Sulfate	46½%	122ºF	LR	LR	A	B	B
Aluminum Sulfate	46½%	200ºF	LR			B	B
Aluminum Sulfate/Copper Sulfate		120ºF	LR	LR	A	B	
Ammonia	10%	100ºF	A			B	B
Ammonia	10%	113ºF	A			B	B
Ammonia, Aqua	29%	100ºF	A			B	NR
Ammonia, Aqua	34%	100ºF	A			B	NR
Ammonium Acetate	25%	150ºF	B	A		B	B
Ammonium Acetate	75%	200ºF		A			
Ammonium Bifluoride		140ºF	A				
Ammonium Carbonate	25%	70ºF	A				
Ammonium Chloride	33%	110ºF	A	A		B	B
Ammonium Diurinate		100ºF	A				
Ammonium Fluoride		150ºF					NR
Ammonium Hydroxide	5%	70ºF	A	A		B	NR
Ammonium Hydroxide	10%	100ºF	LR	LR	NR	B	NR
Ammonium Hydroxide	10%	150ºF	LR	LR	NR		NR
Ammonium Hydroxide	25%	70ºF	A		LR	B	NR
Ammonium Hydroxide	29%	70ºF	A	B		B	
Ammonium Hydroxide	29%	100ºF	A	NR	NR	B	NR
Ammonium Hydroxide	29%	120ºF	B	NR	NR	B	NR
Ammonium Hydroxide	30%	150ºF	B	NR	NR		NR

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Ammonium Lauryl Sulfate	100%	150ºF			NR		
Ammonium Nitrate	50%	70ºF	A	A		B	B
Ammonium Nitrate	50%	212ºF	A	A	B	B	B
Ammonium Nitrate/Urea 42%/32%		100ºF	A				
Ammonium Persulfate	45%	110ºF	B			B	B
Ammonium Phosphate, Monobasic	50%	70ºF	A			B	B
Ammonium Stearate		70ºF	A				
Ammonium Stymer Solution		70ºF	A				
Ammonium Sulfamate		70ºF	A	A			
Ammonium Sulfate, Liquid slurry		70ºF	A			B	B
Ammonium Sulfate, Liquid slurry		200ºF	A				
Ammonium Sulfate/Sodium Sulfate 6%/6%		150ºF	A				
Ammonium Sulfide	40%	100ºF	A		A	B	B
Ammonium Sulfite	50%	70ºF	A				
Ammonium Thiocyanate Solution		100ºF	A			B	B
Ammonium Thiosulfate	60%	100ºF	A	A			
Amyl Acetate	100%	70ºF	A	A		B	
Amyl Acetate	100%	100ºF	A	A	NR	B	B
Amyl Acetate	100%	150ºF	A	A	A	B	
Amyl Alcohol		70ºF	A	A	B	B	
Amyl Alcohol		150ºF	A	A		B	
Aniline		100ºF	A	A		B	B
Aniline Hydrochloride		150ºF				B	B
Aqualum (Altivia)		120ºF	LR	LR	A	B	
Aqua regia		70ºF	NR			NR	NR
Aqueous Ammonium Chloride17% & 4% MeOH		147ºF	A				
Arquad 2HT (Armour®) 75% Active		167ºF	A				
Arquad and Isopropyl Alcohol		158ºF	A				
Ascorbic Acid	10%	150ºF	A	A			
Arsenic Acid	50%	70ºF	LR				NR
Aviation Fuel		70ºF	A	A	A	B	
Boric Acid	100%	210ºF	B	A		B	B
Brake Fluid HD557		150ºF	A				
Brass Plating		150ºF					NR
Brine	6.7%	290ºF	A			B	B
Brine	12.3%	203ºF	A			B	B
Brine	12.3%	250ºF	A			B	B
Brine	29.2%	100ºF	A			B	B
Bromine	100ppm		B	B		B	
Bronze Plating		150ºF					NR
Butadiene		70°F	A			B	B

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Butadiene		150ºF	A			B	B
Butane		70ºF	A	A	A	B	B
Butane		150ºF	A	A	A	B	B
Butene		70ºF	A	A		B	
Butyl Acetate		70ºF	A	A	NR	B	NR
Butyl Acrylate		70ºF	A			B	
Butyl Alcohol	100%	150ºF	A	A	B	B	B
Butyl Cellosolve (Glycol Ether EB)		100ºF	A			B	
Butyl Phenol		210ºF	A				
Butylene		70ºF	A			B	B
1,3-Butylene Glycol		100ºF	A			B	
Butylene Oxide		100ºF	A				
Butyraldehyde	98%	70ºF	A			B	
Butyraldehyde	98%	150ºF	A			B	
Butyric Acid		70ºF	A				
Butyrolactone		70ºF	A	A		B	
Cadmium Cyanide		150ºF					B
Calcium Bisulfate		70ºF				B	B
Calcium Bisulfite		70ºF				B	B
Calcium Bromide	100%	150ºF	A	A	A	B	B
Calcium Carbonate	10%	150ºF	A	A		B	B
Calcium Carbonate	20%	200ºF	A				
Calcium Carbonate	100%	70ºF	A			B	B
Calcium Chloride	50%	70ºF	A	A		B	B
Calcium Chloride	70%	280ºF	A	A		B	B
Calcium Chloride	100%	150ºF	A	A		B	B
Calcium Cyanamide		70ºF	A			B	B
Calcium Cyanide		70ºF				B	B
Calcium Fluoride	25%	150ºF	A			B	
Calcium Hydroxide	50%	150ºF	A			B	B
Calcium Hypochlorite	30ppm	100ºF	A			NR	NR
Calcium Hypochlorite	5%	70ºF	NR			NR	NR
Calcium Lignosulfate	100%	150ºF	A		B		
Calcium Lignosulfate	100%	180ºF	A		NR		
Calcium Nitrate		150ºF				B	B
Calcium Sulfate		150ºF				B	B
Caprylic Acid	100%	70ºF	A	A	A	B	B
Caprylic Acid	100%	150ºF	A	A	B	B	
Caramel Color	100%	100ºF	A	A	A	B	B
Carbon Bisulfide		100ºF	A	A	A	B	NR
Carbon Dioxide		70ºF	A	A		B	B

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Carbon Monoxide		70ºF	A			B	B
Carbon Tetrachloride		70ºF	A	A		B	NR
Carmel		100ºF	A	A			
Casein		70ºF	A			B	B
Cashew Nut Oil		70ºF	A	A		B	B
Castor Oil		70ºF	A			B	B
CAT ® ELC (Extended Life Coolant) Concentrate CATEC-1	100%	70ºF				A	
Caustic Lime (Dehydrated)		150ºF				B	B
Caustic Potassium (Dehydrated)		150ºF				B	B
Cellosolve (Ethyleneglycol Ethylether)		100ºF	A	A		B	NR
Cherry Soda (Concentrate)		70ºF	A				
Chloric Acid	30%	100ºF	A		NR		
Chlorine, Fumes	100ppm	100ºF	B			B	LR
Chlorine, Water	0.40%	70ºF	B			B	LR
Chloral		150ºF	A				NR
Chloroaniline		70ºF	A				
Chlorobenzene (Anhydrous)		100ºF	A				
Chlorobenzene	10%	220ºF		A			
Chloroform	100%	70ºF	A	A		B	NR
Chloroform	100%	144ºF	A	A		B	NR
Chloropicrin		100ºF	A			B	B
Chlorosulfonic Acid	100%	70ºF	B	NR	NR		
Chlorotoluene		194ºF		A			
Chlorowax		100ºF	A				
Chlorox ® (See also Sodium Hypochlorite)	100%	70ºF	NR	NR	NR	NR	NR
Chocolate Syrup		70ºF	A			B	
Choline Chloride	70%	150ºF	A	A	A	B	NR
Chrome Plating Bath		150ºF					NR
Chromic Acid	10%	70ºF	B			B	B
Chromic Acid	20%	100ºF	A				
Chromic Acid	30%	70ºF	B			B	NR
Chromic Acid	50%	70ºF	B			B	NR
Citric Acid	25%	150ºF	LR	LR		B	B
Citric Acid	50%	70ºF	LR	LR		B	B
Citric Acid	50%	150ºF	LR	LR		B	B
Coal Tar		150ºF	A			B	NR
Cobalt Sulfate Solution	pH 6.0	170ºF	A				
Coca Cola Concentrate		70ºF	A	A	A		
Coconut Oil	100%	70ºF	A	A		B	B
Coconut Oil	100%	180ºF	A	A		B	B
Coke Oven Gas		150ºF	A	A		B	

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Collodion Solution		70ºF	A	A			NR
Copper Acetate	50%	70ºF	A			B	
Copper Chloride		70ºF	A			B	B
Copper Cyanide		70ºF	A			B	B
Copper Nitrate		70ºF				B	B
Copper Plating Solution		150ºF				B	B
Copper Sulfate	10%	100ºF	LR	A	B	B	B
Copper Sulfate	10%	120ºF	LR	A	B	B	B
Copper Sulfate	10%	150ºF	LR	B	B	B	B
Copper Sulfate	20%	100ºF	LR	A	A	B	B
Copper Sulfate	20%	120ºF	LR	A	A	B	B
Copper Sulfate	50%	100ºF	LR			B	B
Copper Sulfate	50%	150ºF	LR			B	B
Copper Sulfate (Anhydrous)	100%	140ºF	A	A			
Corn Mash		100ºF	A	A		B	B
Corn Oil (Mazola®)		70ºF	A			B	B
Corn Oil		180ºF	A			B	B
Corn Syrup	100%	70ºF	A	A	A	B	
Corn Syrup	100%	150ºF	A	A	A	B	
Cottonseed Oil		150ºF	A			B	B
Creosote		150ºF	A	A		B	NR
Cresol	100%	150ºF	A	A		B	NR
Crotonaldehyde	100%	70ºF	A			B	
Crude Oil		150ºF	A			B	B
Crude Oil @ 650PSI		200ºF	A			B	
Cyanide Cadmium Bath		100ºF				B	B
Cyanide Plating		100ºF				B	B
Cyanide Zinc		100ºF				B	B
Cyclobutane		55ºF	A			B	B
Cyclohexane		70ºF	A			B	B
Cyclohexanone		100ºF	A			B	NR
Cyclohexene		70ºF	A			B	B
Cyclopropane		70ºF	A			B	B
Dawn® Dish Soap	100%	150ºF	A				
Decon-Clean®	100%	70ºF				A	B
Decon-Quat®	100%	70ºF				A	B
Decyl Alcohol		70ºF	A			B	B
Dextrose		150ºF	A	A		B	B
Diacetone Alcohol	100%	70ºF	A	A	A	B	B
Diacetone Alcohol	100%	100ºF	A	A	A	B	B
Diacetone Alcohol	100%	120ºF	A	A	A	B	B

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Diacetone Alcohol	100%	131ºF	A	A	A	B	B
Diallyl Amine		70ºF	A				
Dibutyl Maleate		70ºF		A			
Dibutylphthalate		70ºF	A			B	
Dichloroacetic Acid	25%	70ºF		A			
O-Dichlorobenzene		100ºF	A			B	
Diesel Fuel	100%	60ºF	A	A	A	B	B
Diesel Fuel	100%	120ºF	A	A	A	B	B
Diethanolamine	100%	125ºF	A				
Diethanolamine	100%	150ºF	LR				
Diethanolamine	100%	350ºF	NR				
Diethyl Phthalate	100%	176ºF	A				
Diethyl Sulfate		100ºF	A				
Diethylene Glycol	50%	70ºF	A			B	
Diethylene Glycol	100%	100ºF	A			B	
Diethylene Glycol Monobutyl Ether (Glycol Ether DB)		100ºF	A			B	
Diethylenetriamine		70ºF	A	A			
Difluorophosphoric Acid		70ºF	NR				
Dihydrogenated Tallow Dimethylammonium Chloride		167ºF	A				
Dimethyl Ethanolamine (tech grade)		70ºF	A				
Dimethyl Phthalate		70ºF	A			B	B
Dimethyl Propane		70ºF	A			B	
Dimethyl Sulfoxide (DMSO)		70ºF	A				
Dimethyl Sulfoxide (DMSO)		302ºF	NR				
Dimethylamine		100ºF	A				NR
Dimethylamine (Anhydrous)		100ºF	A				NR
Dimethylformamide		70ºF	A				
Dioctyl Adipate		100ºF	A				
Dioctyl Phthlate Monomeric		100ºF	A	A			
Dioctyl Phthlate Monomeric		140ºF	A	A			
Diphenol Amine		150ºF	A				
Dipropylene Glycol	5%	100ºF	A	A		B	
Dipropylene Glycol	100%	150ºF	A	A		B	
Dipropylene Glycol Monomethyl ether (DPM)		100ºF	A	A		B	
Disodium Phosphate	5%	70ºF	A	A			B
Dodecylbenzene Sulfonate		125ºF	A			B	B
Dodecylbenzene Sulfonate (Anhydrous)		125ºF	A				
Dolchem®	100%	150ºF	A				
Dow® heavy duty oven cleaner	100%	70ºF	LR	NR	A		
Dow® heavy duty oven cleaner	100%	100ºF	NR	NR	B		
Dowtherm		70ºF				B	B

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Emulsion asphalt	100%	70ºF					NR
Epichlorohydrin		100ºF	A				
Ethane	100%	70ºF	A	A		B	B
Ethanol Amine		70ºF		A			
Ethyl Acetate	100%	100ºF	A	A	A	B	NR
Ethyl Acetate	100%	120ºF	A	A	A	B	NR
Ethyl Acetate	100%	150ºF	A	A	A	B	NR
Ethyl Acetate	100%	171ºF	A	A		B	NR
Ethyl Acetoacetate		70ºF	A	A			
Ethyl Acrylate		70ºF	A			B	
Ethyl Alcohol (Ethanol)	50%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	50%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	77%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	95%	70ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	150ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	97%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	100%	173ºF	A	A		B	B
Ethyl Amide	70%	70ºF	A				NR
Ethyl Amide (Anhydrous)	100%	70ºF	A				NR
Ethyl Chloride	100%	70ºF	A	A		B	
Ethyl Chloride	100%	150ºF	A	A		B	
Ethyl Ether (fumes)		70ºF	A			B	NR
Ethyl Ether (fumes)		94ºF	A			B	NR
2-Ethyl Hexacrylate		100ºF	A			B	B
2-Ethyl Hexenol		100ºF	A			B	
Ethyl Silicate Conc.		100ºF	A				
Ethylene Bromide	100%	176ºF	A			B	
Ethylene Chloride		100ºF	A	A		B	
Ethylene Chlorohydrin		100ºF	A	A		B	
Ethylene Chlorohydrin	100%	194ºF		A			
Ethylenediamine		70ºF	A	A			
Ethylenediaminetetracetic Acid (EDTA)	40%	70ºF	A				
Ethylene Dichloride		100ºF	A			B	
Ethylene Glycol	100%	70ºF	A	A	A	B	B
Ethylene Glycol	100%	120ºF	A	A	A	B	B
Ethylene Glycol	100%	150ºF	A	A		B	B
Ethylene Glycol Monomethyl Ether Acetate		100ºF	A			B	
Ethylene Oxide		100ºF	A				NR
Fatty Acid (Coconut)		180ºF	A			B	B
Fatty Acid (Cotton)		180ºF	A			B	B

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Fatty Acid (Oleic)		180ºF	A			B	B
Fatty Acid (Soya)		180ºF	A			B	B
Ferric Ammonium Citrate Solution		100ºF	A				
Ferric Chloride	10%	150ºF	A	A	A	B	B
Ferric Chloride	50%	70ºF	A	A	A	B	B
Ferric Chloride	50%	150ºF	A	A	A	B	B
Ferric Nitrate		150ºF				B	B
Ferric Sulfate		150ºF	A				B
Ferrous Sulfate	10%	150ºF	A	A		B	B
Ferrous Sulfate	25%	150ºF				B	B
Ferrous Sulfide	10%	150ºF	A	A			
Ferrous Sulfate/Hydrochloric Acid 50%/20%		100ºF	B				
Finesse® Shampoo	100%	150ºF	A	A	A		
Fish Oil		180ºF	A			B	B
Floorstar® TFRII	Conc.	150ºF	NR	NR	NR		
Fluosilic Acid		150ºF					NR
Formaldehyde	0.17%	150ºF	A			B	B
Formaldehyde & Methyl Alcohol (37%-7%)		70ºF	A	A	A	B	B
Formaldehyde & Methyl Alcohol (37%-7%)		150ºF	A	A	B	B	B
Formaldehyde (unstabalized)	44%	130ºF	A			B	B
Formaldehyde	50%	150ºF	A		B	B	B
Formic Acid	10%	70ºF	LR	LR		B	NR
Formic Acid	10%	150ºF	LR				NR
Formic Acid	90%	100ºF	NR				NR
Formic Acid	100%	70ºF	B			B	NR
Formic Acid	100%	125ºF	NR				NR
Freon		100ºF	A	A		B	NR
Fruit Juice		100ºF	A	A		B	B
Fuel Oil		100ºF	A	A		B	B
Fumaric Acid	10%	212ºF	A	A			
Furan		90ºF	A			B	
Furfuryl Alcohol		70ºF	A	A	A	B	
Furfurylamine		70ºF	A				
Gallic Acid		100ºF				B	B
Gasoline, Aviation		70ºF	A	A	A	B	B
Gasoline, Leaded		100ºF	A	A	A	B	B
Gasoline, Unleaded	100%	70ºF	A	A	A	B	B
Gasoline, Unleaded	100%	150ºF	A	A	A	B	B
Gasoline, White		70ºF	A	A	A	B	B
Gelatin		100ºF	A	A		B	B
Gluconic Acid	50%	100ºF	A				

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Glucose		70ºF	A			B	B
Glycidyl Phenylether		70ºF	A			B	
Glycerine		70ºF	A			B	B
Glycerine		200ºF	A			B	B
Glycolic Acid (Hydroxyacetic Acid)	70%	140ºF	A				
Glycols	30%	70ºF	A			B	B
Green Liquor		150ºF	LR			B	B
Heptane		100ºF	A	A		B	B
Heptanoic Acid		70ºF	A				
Hevea® Latex Type k5		70ºF	A			B	B
Hexane		150ºF	A	A			B
Hexane		350ºF	A	A			
1,6-Hexandiol		150ºF	A	A	A	B	B
Hexametaphosphate		100ºF	A				
Hexamethylenetetramine		150ºF	A	A	B		NR
Hilex® Bleach (See Sodium Hypochlorite)		70ºF	NR			NR	NR
Hydraulic Fluid (Houghtosafe 1120)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 56/60)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 620)		140ºF	A			B	
Hydraulic Fluid (skybtul)		50ºF	A			B	
Hydraulic Fluid (skybtul)		150ºF	A			B	
Hydrazine		100ºF	B			NR	
Hydrobromic Acid	2½%	70ºF	B	B	B	B	NR
Hydrobromic Acid	5%	70ºF	B	B	B	B	NR
Hydrobromic Acid	10%	150ºF	B	B	B	B	NR
Hydrobromic Acid	12½%	70ºF	B	B	LR	B	NR
Hydrobromic Acid	15%	70ºF	NR	LR	LR	B	NR
Hydrobromic Acid	20%	70ºF	NR				NR
Hydrobromic Acid	25%	70ºF	NR				NR
Hydrobromic Acid	30%	150ºF	NR			NR	NR
Hydrobromic Acid	48%	150ºF	NR	NR	NR	NR	NR
Hydrochloric Acid	2½%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	5%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	10%	70ºF	B	B		B	B
Hydrochloric Acid	10%	100ºF	B	B	B	B	B
Hydrochloric Acid	10%	150ºF	NR				B
Hydrochloric Acid	12½%	70ºF				B	B
Hydrochloric Acid	15%	70ºF				B	B
Hydrochloric Acid	20%	70ºF	B			B	B
Hydrochloric Acid	20%	100ºF	B			B	B
Hydrochloric Acid	20%	185ºF	NR				NR

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Hydrochloric Acid	30%	100ºF	B			NR	B
Hydrochloric Acid	30%	150ºF	NR				NR
Hydrochloric Acid	37%	70ºF					NR
Hydrochloric Acid	37%	150ºF	NR		NR		NR
Hydrocyanic Acid		100ºF					B
Hydrofluoric Acid	2%	70ºF				B	
Hydrofluoric Acid	10%	70ºF	NR				NR
Hydrofluoric, Vapors		212ºF	NR				NR
Hydrofluorosilic Acid	29%	100ºF	B				NR
Hydrogen Gas		70ºF	A	A		B	B
Hydrogen Gas		350ºF		A			
Hydrogen Peroxide	1%	70ºF				B	
Hydrogen Peroxide	30%	374ºF		B		NR	NR
Hydrogen Peroxide	90%	150ºF	NR	NR		NR	NR
Hydrogen Sulfide	3%	70ºF	A		NR	B	B
Hydrogen Sulfide	5%	210ºF	A		NR		
Hydroquinone		70ºF	A				
Hydroxyacetic Acid		77ºF	A	A			
Hydroxyacetic Acid		100ºF	A				
Hypochloric Acid		70ºF	NR			NR	NR
Hyposulfite		100ºF				B	B
Ink		100ºF	A	A		B	B
Insecticide Bidrin 8 (Amvac)	Conc.	70ºF	A		A		
Insecticide CDMAA (Amvac)	Conc.	70ºF	A	A	A		
Insecticide Naled (Amvac)	Conc.	70ºF	A	A	NR		
Insecticide Nifs T (Monsanto)		100ºF	A				
Iodine		75ºF	A			B	
Iron Pickle Liquor		150ºF				B	B
Iron Sulfate		100ºF	A	A		B	B
Iso-par (Isoparaffinic material)		140ºF	A				
Isobutane		70ºF	A			B	B
Isobutylaldehyde		70ºF	A			B	
Isobutyl Alcohol		70ºF	A			B	B
Isobutyl Alcohol/Formaldehyde 60%/40%		100ºF	A				
Isooctyl Alcohol		70ºF	A			B	B
Isophorone		70ºF	A			B	
Isopropyl Alcohol		70ºF	A	A		B	B
Isopropyl Alcohol		150ºF	A	A	A	B	B
Isopropyl Acetate		70ºF	A	A		B	
Isopropyl Acetate		200ºF	A	A			
Jet Fuel		70ºF	A	A		B	B

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Jet Fuel		100ºF	A	A		B	B
Jet Fuel JP-5		120ºF	A	A		B	B
Joy® Dish Soap		150ºF	A		A		
Kaboom®		120ºF	LR	LR	A	B	
Karo Syrup		70ºF	A	A	A	B	B
Kelvar		140ºF	A				
Kerosene		100ºF	A	A		B	B
Kopper Star Distillate		140ºF	A				
Lacquor		100ºF	A			B	NR
Lacquor Solvent		100ºF	A			B	NR
Lactic Acid	10%	140ºF	LR	LR		B	B
Lactic Acid	22%	100ºF	A				
Lactic Acid	100%	100ºF	A	A		B	B
Lanoline® Lotion Shampoo Concentrate		70ºF	A				
Lard		70ºF	A				
Latex		100ºF	A			B	B
Latex #512K (Dow®)		70ºF	A			B	B
Latex GR-S Type 3		77ºF	A	A		B	B
Latex Rubber		70ºF	A			B	B
Leachate Solution (Sour Water)		150ºF					
Lead Acetate	10%	150ºF	A	A		B	
Levulinic Acid		77ºF	A				
Lignin Sulfate		100ºF	A				
Lime (Chopped)		100ºF	A				
Linoleic Acid		100ºF	A			B	B
Lithium Chloride		70ºF	LR			B	B
LP Gas		100ºF	A	A		B	
LpHst (Steris product)	100%	70ºF				A	
LpHst (Steris product)	0.01%	70ºF				A	
Lube Oil (Pennzoil 10W30)		150ºF	A	A	A	B	B
Lubricating Oil		70ºF	A	A	A	B	B
Lubricating Oil		182ºF	A	A		B	B
Lysol®		70ºF	A				
Magnesium Carbonate		150ºF	A			B	B
Magnesium Chlorate		150ºF				B	B
Magnesium Chloride	40%	100ºF	A	A		B	B
Magnesium Chloride	5%	70ºF				A	
Magnesium Chloride	50%	70ºF	A			B	B
Magnesium Hydroxide Slurry		150ºF	A		A	B	B
Magnesium Nitrate		150ºF				B	B
Magnesium Oxide	20%	70ºF	A			B	B

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Magnesium Sulfate		100ºF	A			B	B
Magnesium Sulfate		150ºF	A			B	B
Maleic Acid	50%	70ºF	A			B	B
Maleic Anhydride		100ºF	A				
Maleic Anhydride		250ºF	A				
Malic Acid		100ºF	LR			B	B
Manganese Ammonium Sulfate		100ºF				B	B
Manganese Chloride		100ºF	A	A		B	B
Manganese Sulfate		150ºF	A			B	B
Martan B® liquid (Marathon Oil)		100ºF	A				
Mayonnaise		150ºF	A		A		
MEK Peroxide (45% in Dimethyl Phthalate)		70ºF	A	B	NR	B	NR
Melamine		70ºF	NR	NR			
Melamine Resin Solution		100ºF	A			B	B
Mercuric Chloride		100ºF	A	A		B	B
Methyl Acetate	96%	100ºF	A			B	NR
Methyl Acrylate		100ºF	A	A		B	
Methyl Alcohol	100%	70ºF	A	A	A	B	B
Methyl Alcohol	100%	120ºF	A	A	A	B	B
Methyl Alcohol	100%	148ºF	A	A	B	B	B
Methyl Butane		100ºF	A			B	B
Methyl Cellosolve (Glycol EM)		70ºF	A	A	B	B	
Methyl Cellosolve (Glycol EM)		120ºF	A	A	B	B	NR
Methyl Chloride		100ºF	A			B	NR
Methyl Chloride		150ºF	A			B	NR
Methyl Ether		50ºF	A			B	NR
Methyl Ethyl Ketone	100%	100ºF	A	A	B	B	NR
Methyl Ethyl Ketone	100%	150ºF	A	A		B	NR
Methyl Fluoride		150ºF	A			B	NR
Methyl Isobutyl Carbinol		70ºF	A			B	
Methyl Isobutyl Ketone (MIBK)		70ºF	A	A		B	NR
Methyl Mercaptan		70ºF	A				
Methyl Methacrylate		100ºF	A	A	NR	B	
Methyl Propane		70ºF	A			B	B
Methylene Bromide		100ºF	A	A			
Methylene Chloride	100%	77ºF	A	A		B	NR
Methylene Chloride	100%	100ºF	A	A		B	NR
Methylene Chloride	100%	113ºF	A	A		B	NR
Methylene Chlorobromide		70ºF	A			B	NR
Methylene Diisocyanate		100ºF	A				
n-Methylpyrolidone	100%	275ºF	A			B	

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Milk (condensed)		70ºF	A			B	B
Milk (whey)		150ºF	A			B	B
Mineral Oil		70ºF	A	A		B	B
Mineral Spirits		150ºF	A	A	A	B	B
Molasses	100%	70ºF	A	A		B	B
Molasses		110ºF	A	A		B	B
Monochloroacetic Acid		100ºF	A				
Monochloropinacolone (MCP)		75ºF	A				
Monochloropinacolone (MCP)		100ºF	A				
Monoethanolamine		100ºF	NR				NR
Monofluorophosphoric Acid		70ºF	B	B			NR
Morpholine		150ºF	A				
Mustard		150ºF	A		NR		
Nalco ® 2000 / Nalcool 2000 / Nalfleet 2000	100%	70ºF				A	
Naphthalene (sulfonated)		150ºF	A			B	B
Naphtha		150ºF	A	A	A	B	B
Naphthenic Acid		100ºF	A	A		B	B
Naphthenic Acid	95%	180ºF	A	A			
1-Naphthol-4-Sulfonic Acid	7.5-8.0pH	158ºF	A			B	B
Natural Gas		100ºF	A			B	B
Neatsfoot Oil		150ºF	A	A		B	B
Neatsfoot Oil		250ºF	A	A		B	B
Nickel Acetate	50%	70ºF	A			B	B
Nickel Chloride	50%	70ºF	A			B	B
Nickel Nitrate		150ºF				B	B
Nickel Plating Solution (electroless)		212ºF	B	A			
Nickel Plating Solution		374ºF	B		B	B	B
Nickel Salts		150ºF				B	B
Nickel Sulfate		150ºF				B	B
Nitric Acid	1%	70ºF	LR	A	B	B	NR
Nitric Acid	2%	185ºF	LR		B		NR
Nitric Acid	5%	70ºF	LR	LR	LR	B	
Nitric Acid	5%	120ºF	LR	B	B		NR
Nitric Acid	10%	100ºF			NR	B	NR
Nitric Acid	10%	140ºF	NR	NR	NR	B	NR
Nitric Acid	10%	150ºF	NR	NR	NR	B	NR
Nitric Acid	10%	185ºF	NR	NR	NR		NR
Nitric Acid	15%	150ºF	NR	NR	NR		NR
Nitric Acid	25%	70ºF	B			B	NR
Nitric Acid	25%	100ºF	NR	NR	NR		NR
Nitric Acid	25%	150ºF	NR	NR	NR		NR

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Nitric Acid	50%	100ºF	NR	NR	NR		NR
Nitric Acid	70%	100ºF	NR	NR	NR		NR
Nitrobenzene		100ºF	A	A		B	NR
Nitrobenzenesulfonic Acid		100ºF	A	A			
o-Nitrochlorobenzene		180ºF	A			B	
p-Nitrochlorobenzene		100ºF	A			B	B
Nitrogen		100ºF	A	A		B	B
Nitrogen		300ºF	A	A			
Nitrophenol		250ºF	A	A	NR	B	NR
1-Nitropropane		70ºF	A			B	B
Nonylphenol		100ºF	A			B	
Nonylphenol		180ºF	A			B	
n-Octyl Alcohol		70ºF	A			B	B
Nu-Calgon Evap Pow'r-C	100%	70ºF				A	LR
Nu-Calgon Evap-Green	100%	70ºF				A	LR
Nu-Calgon Green Clean	100%	70ºF				A	LR
Nu-Calgon Cal-Green	100%	70ºF				A	LR
Nu-Calgon Tri-Pow'r HD	100%	70ºF				A	LR
Nu-Calgon TriClean 2x	100%	70ºF				A	LR
Nu-Calgon Nu-Solve NR	100%	70ºF				A	LR
p-t-Octyl Phenol		250ºF	A				
Oil, Cutting		140ºF	A			B	B
Oil, water soluble		70ºF	A			B	
Oleic Acid		70ºF	A			B	B
Oleic Acid		250ºF	A				
Oleomargarine		70ºF	A				
Oleum		100ºF	B				NR
Olive Oil		70ºF	A			B	B
Orange Concentrate		70ºF	A			B	
Orange Soda Concentrate		70ºF	A			B	
Oxalic Acid		70ºF	A			B	B
Oxalic Acid		160ºF	A			B	
Oxygen		70ºF	A	A		B	B
Ozone			NR	NR		NR	
Palm Oil		70ºF	A	A		B	B
Palm Oil		150ºF	A	A		B	B
Palm Oil (Crude)		250ºF	A	A		B	NR
Palmitic Acid		200ºF	A			B	B
Palmolive® Dish soap		150ºF	A				
Paraformaldehyde	50%	150ºF	A			B	
Paraldehyde		70ºF	A			B	

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Peanut Butter		70ºF	A	A			
Peanut Oil		70ºF	A				
1,3-Pentadiene		100ºF	A			B	B
Pepper		70ºF	A			B	
Pepperoni						NR	
Perchloric Acid	20%	70ºF		B			NR
Perchloroethylene		200ºF	A			B	NR
Phenol	3%	70ºF	A			B	NR
Phenol	5%	150ºF	A				
Phenol	50%	150ºF	A	A			
Phenol	90%	100ºF	A	A			NR
Phenol	90%	150ºF	A	A			NR
Phenol	100%	150ºF	A	A			NR
Phenylenediamine	50%	70ºF	A				
Phenylhydrazine		70ºF	B				
1-Phenyl-2-methyl-1,2-propanediamine		70ºF	A				
Phosphoric Acid	10%	70ºF	B		B	B	B
Phosphoric Acid	10%	150ºF	B	B		B	B
Phosphoric Acid	25%	100ºF	B	B	B		
Phosphoric Acid	25%	150ºF	B	B			
Phosphoric Acid	50%	150ºF	NR	NR			
Phosphoric Acid	75%	100ºF			B		
Phosphoric Acid	75%	150ºF	NR	NR			
Phosphoric Acid	85%	70ºF	B			B	B
Phosphorus Oxychloride		70ºF	A				
Phosphorus Trichloride		70ºF	A				NR
Phthalic Acid	90%	70ºF	A				
Phthalic Anhydride	80%	70ºF	A				
Phthalic Anhydride, Concentrated (Mother Liquor)		100ºF	A				
Phthalic Anhydride, molten		347ºF	A				
Pickling Acid, sulfuric		150ºF				B	B
Picric Acid		70ºF				B	B
Pine Oil		70ºF	A	A	A	B	B
Pine Oil		100ºF	A	A	A	B	B
Polyaluminum Chloride		70ºF	A				
Polyethylate Nonylphenol	70%	100ºF	A			B	
Polyethylene Glycol		100ºF	A			B	
Polyols		100ºF	A				
Polyvinyl Acetate Emulsion		70ºF	A	A		B	
Polyvinyl Chloride Pellets		70ºF					
Potassium Acetate	25%	150ºF	A	A	A	B	B

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Potassium Bicarbonate		150ºF				B	B
Potassium Bisulfate		100ºF				B	B
Potassium Bromate	7%	70ºF	A	NR	A	B	NR
Potassium Bromate	7%	150ºF	B	NR	A	B	NR
Potassium Bromide	10%	150ºF	A	A	A	B	B
Potassium Bromide	100%	70ºF	A			B	B
Potassium Carbonate	10%	150ºF	B	B		B	B
Potassium Chloride	10%	70ºF	A	A	A	B	B
Potassium Chloride	10%	150ºF	A	A	A	B	B
Potassium Chloride	25%	150ºF	A	A	A	B	B
Potassium Chloride	100%	70ºF	A			B	B
Potassium Chromate	10%	150ºF	A	A		B	
Potassium Cuprocyanide		100ºF				B	B
Potassium Cyanate		150ºF				B	B
Potassium Dichromate	10%	150ºF	A	A		B	B
Potassium Ferricyanide	25%	150ºF	A	A		B	B
Potassium Ferrocyanide		70ºF	A			B	B
Potassium Fluoride		70ºF	A			B	B
Potassium Hydroxide	10%	100ºF	NR			NR	NR
Potassium Hydroxide	10%	150ºF	NR				
Potassium Hydroxide	50%	70ºF	NR	NR		B	NR
Potassium Hydroxide	50%	150ºF	NR	NR		NR	NR
Potassium Hypochlorite		100ºF	NR			NR	NR
Potassium Iodide	25%	150ºF	A	A	B	B	B
Potassium Nitrate	50%	70ºF	A			B	B
Potassium Nitrite		150ºF					B
Potassium Oleate		150ºF	A				
Potassium Permanganate		70ºF	B			B	B
Potassium Persulfate		150ºF				B	B
Potassium Phosphate		100ºF	A			B	B
Potassium Sulfate		150ºF	A			B	B
Potassium Sulfide		150ºF				B	B
Potassium Thiosulfate		100ºF				B	B
Propane		100ºF	A	A		B	B
Proprionaldehyde		70ºF	A			B	
Proprionic Acid		70ºF	LR				
n-Propyl Acetate		70ºF	A	A		B	
n-Propyl Alcohol	100%	70ºF	A	A		B	B
n-Propyl Alcohol		100ºF	A	A		B	B
n-Propyl Alcohol		150ºF	A	A		B	B
Propylene		100ºF	A			B	B

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Propylene Glycol		100ºF	A	A		B	
Propylene Glycol Monomethyl Ether (PM)		150ºF	A	A	NR	B	
Propylene Oxide		70ºF	A				
Propylenediamine		70ºF	A				NR
Pro-Red +	10%	70ºF				NR	
Prune Juice		100ºF	A			B	B
Pyridine		100ºF	A			B	
Pyrogallic Acid		70ºF				B	B
Quaternary Ammonium Chlorides		100ºF	A				
Rapeseed Oil		70ºF	A	A		B	B
Rocadyna (PVP)		150ºF	A		NR		
Rochelle Salts		100ºF	A			B	B
Rosin (wood)		388ºF	A			B	B
Rubber Latex		77ºF	A			B	
Sake Wine		100ºF	A	A		B	
Salicylic Acid	10%	150ºF	A	A		B	B
Salomi		70ºF				NR	
Saturated Lime & Calcium		374ºF		NR			
Sauve® shampoo	100%	70ºF	A				
Scale Gone 70 (MEC Corporation)	17%	150ºF	A	A			
Silicic Acid		100ºF				B	B
Silver Nitrate	20%	150ºF	A	A	B	B	B
Silver Plating Solution		150ºF				B	B
Sodium Acetate	25%	70ºF	A	A	A	B	B
Sodium Acetate	25%	150ºF	A	A	A	B	B
Sodium Acetate	50%	150ºF	A	A	A	B	B
Sodium Aluminate		100ºF				B	B
Sodium Bicarbonate		150ºF	B			B	B
Sodium Bisulfate	10%	150ºF	A			B	B
Sodium Bisulfate	25%	150ºF	A	NR		B	B
Sodium Bisulfide		100ºF				B	B
Sodium Bisulfite	25%	150ºF	A	A		B	B
Sodium Borate		100ºF	A			B	B
Sodium Bromide		150ºF	A			B	B
Sodium Carbonate	10%	176ºF	A	B	A	B	B
Sodium Carbonate	15%	185ºF	A		A		
Sodium Carbonate	20%	140ºF	A			B	B
Sodium Carbonate	50%	70ºF	A			B	B
Sodium Carbonate	99%	100ºF	A			B	B
Sodium Chlorate	46%	120ºF	NR	NR	A		
Sodium Chlorate	50%	70ºF	A	LR	A	B	B

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Sodium Chlorate	50%	120ºF	LR	LR	A		
Sodium Chloride	5%	70ºF				A	
Sodium Chloride	5%	150ºF	A	A		B	B
Sodium Chloride	20%	77ºF	A	A		B	B
Sodium Chloride	20%	200ºF	A				
Sodium Chloride	40%	200ºF	A			B	B
Sodium Chlorite		100ºF	B			B	B
Sodium Chlorite	25%	120ºF	NR	NR	NR	NR	NR
Sodium Chromate	50%	70ºF	A			B	B
Sodium Cyanide	20%	100ºF	B			B	B
Sodium Dichromate		100ºF	B			B	B
Sodium Ferricyanide		100ºF				B	B
Sodium Fluoride	25%	122ºF	A	A		B	NR
Sodium Fluoride	25%	150ºF	A	A		B	NR
Sodium Formate	22%	180ºF	A			B	
Sodium Formate	48%	150ºF	A				
Sodium Formate	50%	250ºF				B	
Sodium Hydrosulfide (Sodium Bisulfide)		100ºF				B	B
Sodium Hydroxide	½%	176ºF	A	B	A		NR
Sodium Hydroxide	1%	100ºF			A	NR	NR
Sodium Hydroxide	2%	77ºF		B	A	B	NR
Sodium Hydroxide	2%	176ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	8%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	70ºF	NR	NR		B	NR
Sodium Hydroxide	10%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	120ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	150ºF	NR	NR		NR	NR
Sodium Hydroxide	10%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	20%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	20%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	25%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	28%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	30%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	50%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	73%	160ºF	NR	NR	B	NR	NR

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Sodium Hydroxide	73%	250ºF	NR	NR		NR	NR
Sodium Hydroxide	75%	150ºF	NR	NR		NR	NR
Sodium Hypochlorite (Bleach)	5%	70ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	100ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	140ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite (Bleach)	5½%	150ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	12½%	70ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	15%	70ºF	NR	NR		NR	
Sodium Hypophosphite	5%	70ºF	A				
Sodium Metaphosphate	5%	70ºF	A				
Sodium Metaphosphate	12½%	100ºF	A				
Sodium Nitrate		100ºF	A			B	B
Sodium Nitrite		150ºF				B	B
Sodium Oleate		100ºF	A			B	B
Sodium Permanganate		150ºF				B	B
Sodium Peroxide		100ºF	B			B	B
Sodium Phosphate	50%	70ºF	B			B	B
Sodium Polyacrylate		70ºF	A				
Sodium Propionate	20%	70ºF	A			B	
Sodium Silicate		150ºF	A			B	B
Sodium Sulfate	10%	150ºF	A	A	A	B	B
Sodium Sulfate	25%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	200ºF	A	A	A	B	B
Sodium Sulfate Nickle Pickling Solution		150ºF				B	B
Sodium Sulfhydrate		100ºF	A				
Sodium Sulfite	10%	150ºF	A	A	A	B	B
Sodium Sulfite	10%	180ºF	A	A	A	B	B
Sodium Sulfite	25%	150ºF	A	A	A	B	B
Sodium Thiocyanate	10%	70ºF	LR				
Sodium Thiocyanate	50%	70ºF	LR				
Sodium Thiosulfate	10%	150ºF	A	A	A	B	B
Sodium Thiosulfate	30%	100ºF	A	A	A	B	B
Sodium Thiosulfate	30%	120ºF	A	A	A	B	B
Sodium ThioSulfate	30%	150ºF	A	A	A	B	B
Sodium Toluene Sulfonate	40%	100ºF	A				
Sodium Xylene Sulfonate		100ºF	NR				
Solo® Laundry detergent	100%	150ºF	B		NR		
Sorbitol	conc.	100ºF	A	A		B	
Soya Oil		180ºF	A			B	B
Soybean Hydrase		70ºF	A	A	A	B	

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Soybean Hydrase		150ºF	A	A	A	B	
Soysauce	100%	150ºF	A		A		
Sparkle	100%	70ºF				A	
Spor-Klenz®	1%					A	B
Spor-Klenz®	100%					A	
Stannic Chloride		100ºF	B			B	B
Stannous Chloride		100ºF				B	B
Starch		150ºF	A	A		B	B
Steam		225ºF	A	A	NR	B	NR
Steam		250ºF	A	A	NR	B	NR
Steam		290ºF	A	A	NR		NR
Stearic Acid	90%	160ºF	A	A		B	B
Stoddard Solvent		150ºF	A	A		B	B
Strawberry Preserves		70ºF	A				
Styrene		70ºF	A				
Styrene Butadiene Latex (pH 7-9)		140ºF	A	A			
Sugar Mixture		70ºF	A			B	B
Sulfamic Acid	20%	70ºF	A			B	B
Sulfamic Acid	50%	70ºF	A			B	B
Sulfur	100%	300ºF	A		B	B	NR
Sulfur Chloride		100ºF					NR
Sulfur Dioxide		150ºF	A			B	LR
Sulfur Trioxide		100ºF					NR
Sulfuric Acid	5%	70ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	100ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	120ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	150ºF	B	LR	B	B	B
Sulfuric Acid	10%	77ºF	B	NR	B	B	
Sulfuric Acid	10%	100ºF	B	NR	B		
Sulfuric Acid	10%	120ºF	B	NR	B	B	B
Sulfuric Acid	10%	150ºF	B	NR	B	B	
Sulfuric Acid	15%	185ºF	B	NR			
Sulfuric Acid	20%	70ºF	B	LR	LR	B	B
Sulfuric Acid	20%	150ºF	B	B	B	B	
Sulfuric Acid	25%	70ºF	B			B	
Sulfuric Acid	25%	100ºF	B	B		B	
Sulfuric Acid	25%	150ºF	B	B		B	
Sulfuric Acid	25%	300ºF	B	B			
Sulfuric Acid	30%	70ºF	B			B	B
Sulfuric Acid	30%	100ºF	B	B	B	B	
Sulfuric Acid	30%	150ºF	NR	NR			

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Sulfuric Acid	50%	70ºF	LR		B	B	B
Sulfuric Acid	50%	150ºF	LR			B	B
Sulfuric Acid	70%	70ºF	A			B	B
Sulfuric Acid	70%	100ºF	A			B	B
Sulfuric Acid	70%	150ºF	B	B		B	B
Sulfuric Acid	75%	70ºF	A				
Sulfuric Acid	75%	100ºF	A			B	B
Sulfuric Acid	75%	150ºF	LR			B	B
Sulfuric Acid	92%	100ºF	A				NR
Sulfuric Acid	96%	100ºF	A				
Sulfuric Acid	98%	70ºF	A	B		B	NR
Sulfuric Acid	98%	120ºF	A				NR
Sulfuric Acid	98%	150ºF	B				NR
Sulfuric Acid	98%	180ºF	NR				NR
Sulfuric Acid	100%	100ºF	LR	NR	NR		NR
Sulfuric Acid	100%	150ºF	LR	NR			NR
Sulfuric Acid/Chromic Acid 6%/5%		100ºF	NR				
Sulfuric Acid/Nitric Acid 64%/0.1%		100ºF	NR				
Sulfurous Acid	15%	200ºF	A				
Sulfurous Acid	100%	100ºF				B	NR
Surfactants		100ºF				B	B
Tall Oil		70ºF	A			B	B
Tall Oil		180ºF	A			B	B
Tallow (crude)		150ºF	A			B	B
Tannic Acid	10%	200ºF	A				
Tannic Acid	100%	100ºF	A			B	B
Tar		150ºF	A			B	B
Tartaric Acid	30%	200ºF	A				
Tartaric Acid	100%	100ºF				B	B
Tetrachloroethane		200ºF	A	A		B	NR
Tetraethylenepentamine		70ºF	A				
Tetrafluoroethylene		150ºF	A		A	B	NR
Tetrahydrofuran		70ºF	A			B	
Tetrahydrofuran		151ºF	A	A		B	
Thioglycolic Acid	97%	70ºF	A	A			
Thioglycolic Acid	97%	150ºF	LR	LR	NR		
Thiols		70ºF	A				
Tide® Laundry detergent	100%	70ºF	A				
Tide® Laundry detergent	100%	150ºF	A		NR		
Tin Immersion Dip		150ºF			NR		B
Tin Tetrachloride	50%	70ºF	A		A	B	NR

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Titanium Dioxide		100ºF	A.				
Titanium Tetrachloride		100ºF	NR	NR			
Toluene	100%	70ºF	A	A	B	B	NR
Toluene	100%	100ºF	A	A	B	B	NR
Toluene	100%	230ºF	A	A	B	B	NR
Toluene Diisocyanate (TDI)		100ºF	A	A			
Toluenesulfonamide/formaldehyde resin	100%	150ºF	A	A	A		
Tomato Paste, no salt (Hunts®)	100%	150ºF			A		
Tomato Puree (Hunts®)	100%	150ºF			A		
Toxaphene	100%	194ºF	A				
Toxaphene	100%	212ºF	A	LR			
Transformer Oil		70ºF	A				
Tributyl Phosphate		70ºF	A				
1,1,1 Trichloroethane		70ºF	A	A			
1,1,1 Trichloroethane		165ºF	A	A	B	B	NR
Trichloroethylene	100%	70ºF	A	A	A	B	NR
Trichloroethylene	100%	150ºF	A	A	A	B	NR
Trichloroethylene	100%	180ºF	A			B	NR
Tricresyl Phosphate	100%	70ºF	A	A	A	B	B
Tricresyl Phosphate	100%	100ºF	A			B	B
Tridecyl Alcohol		70ºF	A			B	B
Triethanolamine		100ºF	A				
Triethanolamine Lauryl Sulfate		100ºF	A	LR			
Triethylbenzene		150ºF	A				
Triethylene Glycol		100ºF	A				
Triethylenetetramine		100ºF	A	A			
Trifluoroacetic Acid (3M)	100%	162ºF	A	A	B	B	NR
Triphenyl Phosphite		100ºF	A	A	A	B	NR
Tripotassium Phosphate		150ºF	A	A	A	B	NR
Trisodium Phosphate	5%	140ºF	A			B	NR
Tung Oil	100%	70ºF	A	A	A	B	B
Turpentine		70ºF	A			B	B
Urea Fromaldehyde resin		100ºF	A			B	B
Urea Liquor		266ºF	A			B	B
Urea Solution	50%	100ºF	A				
Urea-Ammonium Nitrate solution		150ºF	A				
Uric Acid		70ºF	A			B	
V-8 Vegetable Juice		70ºF	A	A			
Vapam		100ºF		A			
Varnish		150ºF	A				
Vegetable Oil		100ºF	A				

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Vesphene (Steris Product)	100%	70ºF				A	
Vesphene (Steris Product)	0.01%	70ºF				A	
Vicks® Cough Syrup		70ºF	A			B	NR
Vinegar (White)		70ºF	A				
Vinyl Acetate (Clear liquid)		150ºF	A			B	B
Vinyl Chloride		70ºF	A			B	B
Vinyl Toluene		100ºF	A		A	B	B
Water, Boiler		212ºF	A				
Water, Boiling Distilled		225ºF	A			B	B
Water, Boiling Distilled		250ºF	A				
Water, Boiling Distilled		290ºF	A	A		B	B
Water, Brackish		150ºF	A	A			
Water, Cation Exchange	pH4	180ºF	A			B	
Water, DI		100ºF	A	A	A	B	B
Water, DI		150ºF	A	A	A	B	B
Water, DI		212ºF	A	A	A	B	NR
Water, Fresh		212ºF	A	A		B	B
Water, Salt	5%	150ºF	A			B	B
Water, Sea		165ºF	A	A		B	B
Water, Sea		212ºF	A	A		B	NR
Water, Tap		100ºF	A	A	A	B	B
Water, Tap		150ºF	A	A	A	B	B
Water, Tap		212ºF	A			B	NR
Wax		200ºF	A				
Whey		70ºF	A				
Whiskey		150ºF	A			B	B
White Liquor		150ºF	NR	NR		B	B
Whizz® Laundry detergent	100%	150ºF	NR	NR	NR		
Wine		100ºF	A			B	B
Wood Rosin	100%	100ºF	A	A	NR	B	B
Wood Rosin		388ºF	A			B	NR
Xylene	100%	150ºF	A	A		B	NR
P-Xylene		150ºF	A	A		B	NR
Yeast		150ºF				B	
Zinc Acetate	10%	100ºF	A			B	B
Zinc Acetate	30%	100ºF	A			B	B
Zinc Calcium Bromide		150ºF	A	A	A	B	B
Zinc Chloride	10%	150ºF	A	A		B	B
Zinc Chloride	40%	70ºF	A			B	B
Zinc Chloride	50%	70ºF	LR	LR		B	B
Zinc Nitrate		100ºF	B	B		B	B

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Zinc Plating Solution		150ºF	B	B		B	B
Zinc Sulfate		100ºF	B	B		B	B

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HERESITE PROTECTIVE COATINGS, LLC

3005 Ranchview Ln N
Plymouth, MN 55447
cdicurbs.com 888-234-7001

Manufacturer's Certification of Compliance

To Whom It May Concern,

I, Joe Long, Crystal Distribution Inc. Supply Chain Manager, certify that the products listed below comply with the domestic content requirements of the Build America, Buy America Act (BABA) and related federal regulations.

Product(s) or Material(s):

- Curbs
- Curb Adapters

Certification Statement:

For manufactured goods and construction materials, I certify that all manufacturing processes occurred in the U.S. at one of our five (5) manufacturing facilities, the cost of U.S.-sourced components is more than 55% of the total component cost, and final manufacturing or assembly was in the U.S.. For iron and steel products, all manufacturing, from melting through coating, took place in the U.S. based upon certifications provided to us by our galvanized sheet metal and micromat insulation suppliers.

This certification confirms compliance with all applicable BABA requirements.

Notification of Changes:

I agree to inform you immediately if compliance changes during this project.

Declaration:

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Joe Long
Supply Chain Manager
jlong@cdicurbs.com
763-639-7487

Line	Quantity	CDI Part #	Tag
C	1	2-0016-9220	PHP-L01

Description

Straight Curb
Straight, No Pitch, 16 in
New Model: RN006 (STANDARD & POWER EXHAUST) (PLENUM CURB)
Wood Nailer; Top Brace; Not Insulated; Insulated Condenser Panel (only where required)

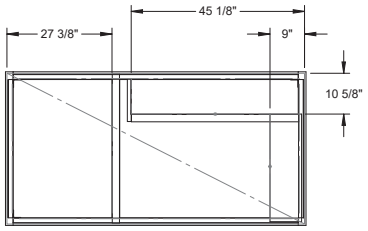
Curb to be coated with heresite p-413 by Blygold

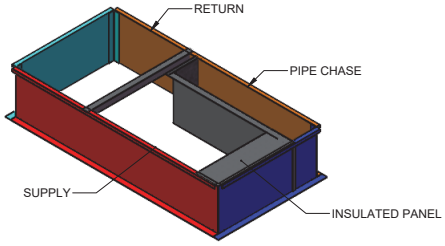
OPTIONS:
Material: 18 GA Galv. Steel
INSULATED PANELS (WHERE REQUIRED)
2X4 WOOD NAILER

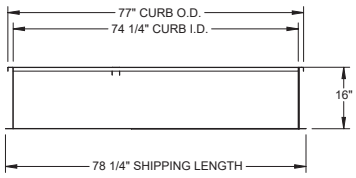
DIMENSIONED AND TOLERENCED PER ANSI Y14.5M-1982

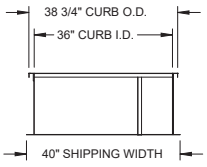
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	INITIAL DRAWING	11/21/25	GG

RTU TAG(S):









CURB SHOWN IS CDI STANDARD CONFIGURATION CDI RESERVES THE RIGHT TO CHANGE LAYOUT WITHOUT NOTIFICATION. IF CURB IS NEEDED IN A DIFFERENT CONFIGURATION CDI MUST BE NOTIFIED PRIOR TO PLACING AN ORDER.

*VERIFY EXISTING CURB OD
*VERIFY SUPPLY AND RETURN OPENINGS
*NOTE ANY CHANGES
*CALL WITH ANY QUESTIONS
*FAX BACK IF DRAWING IS OK AS IS

CURB WEIGHT (LBS.)	APPROVALS	DATE
213	DRAWN: gguerin	11/21/2025
	CHECKED: -	-

UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE: X ± 0.06, XX ± 0.03, XXX ± 0.01, ∅.XX=±.007, ∠ ±1/2°
DIMENSIONS ARE AS FOLLOWS: INCH [MM]
3RD ANGLE PROJECTION

CDI
17560 TYLER ST NW
ELK RIVER, MN 55330
(763)391-7790
(763)391-7851

TITLE: 2-0016-9220
FILE NAME: 2-0016-9220
ECO #:
DRAWING NO.: 2-0016-9220
REV: 01
SCALE: 1:25
SHEET: 1 OF 3

S:\CURBS_CURB_ADAPTERS\2-XXXX-XXXX_PITCHED_STRAIGHT_KD\STANDARD STRAIGHT-PITCHED\9000\2-0016-9220\

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Wate Water Resource Recovery Facility
PRODUCT	Packaged Air Conditioners/ Packaged Heat Pumps
MANUFACTURER	AAON
SPECIFICATION	156500-6-11 2.50
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 15, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

1100 Kendrick Ave. Springdale AR, 72764

SUBMITTAL NOTES

Review Comments

Remarks

1. **Please include bookmarks in the submittal PDF for the different unit tags and products.**
2. **Blygold coating submitted is tested on aluminum panels. This coating does not appear to be intended to be used as conformal coating for electronic circuit boards and wiring connections. Confirm or submit appropriate coating product for electronics.**
3. **Response to comment is not clear that the increased MCA rating has been coordinated with the electrical power circuit. Contractor to confirm.**
4. **Response to comments on roof curbs is not found. Confirm roof curbs are provided and include product information.**
5. **PAC A0l / PAC A02 / PAC J0l / PAC J02 / PHP L0l: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/ designer.**
6. **PHP L02: Contractor to coordinate exact location of openings with existing joists and framing members.**
7. **PHP L03: Contractor to coordinate exact location of openings with existing joists and framing members.**
8. **PHP M0l: This unit is supported by a concrete slab and grade**

Review Response

1. **Bookmarks are included on this submittal document**

2. The equipment manufacturer does not recommend coating electronic terminals or connections due to serviceability concerns. If the electrical is coated there is not a viable way to service, diagnose, or maintain proper operation of the systems. The note for H-2 Note 2 is listed below and calls out a conformal coating however, the spec calls for all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating. The H-2 Note #2 appears to be pulled from the Spec section 15650-11 Casing- a. DOAS 15650-12 a cont. Uncoated galvanized steel exterior is not acceptable. controls panels, wiring connections and other sensitive electronics shall be provided with heresite, E-coat, micro guard, or equal. There is not a spec call out for electrical coating on the Packaged Roof Top Units. Furthermore, the electrical components are in an isolated compartment not subject to exposure of the air stream.

H-2 Note 2 Packaged Roof Top Units 2. UNIT IS SUBJECT TO CORROSION FROM A HYDROGEN SULFIDE LADEN ATMOSPHERE. ALL AIRSTREAM COMPONENTS AND EXPOSED HEAT TRANSFER COMPONENTS SHALL BE GIVEN A PROTECTIVE SPECIAL COATING OF HERESITE, MICROGUARD 1, ELECTROFIN E-COAT OR APPROVED EQUAL. "CONTROLS PANELS, WIRING CONNECTIONS AND OTHER SENSITIVE ELECTRONICS – Pulled from DOAS Spec section 15650-11,12 a."

Spec - 15650-7 c. Where indicated in the schedules on the Drawings, all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating.

3. Contractor to Confirm

4. Curb data provided for each submitted section. Curbs to include Heresite P-413 coating by Blygold.

5. Contractor to Confirm

6. Contractor to Confirm

7. Contractor to Confirm

8. Contractor to Confirm

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Water Resource Recovery WRRF Facility
PRODUCT	Packaged Roof Top Units
MANUFACTURER	AAON
SPECIFICATION	15650
LOCATION	Springdale, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems
CONTRACTOR POC	
DATE	November 11, 2025
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

5440 Northshore Drive – North Little Rock, Arkansas 72118 – Tel: 501.374.5420 Fax: 501.370.9298

SUBMITTAL NOTES

PHP_L02

Remarks BLACK & VEATCH NOTES FROM SEPTEMBER 3, 20205

Building Mechanical Comments:
All Units:

1. Roof Top Units are specified under Division 15650, revise submittal title and confirm compliance with 15650.
2. Contractor to confirm that materials comply with American Iron and Steel (AIS) requirements as indicated section 15650-1.02.
3. AAON is not a listed manufacturer in specification section 15650. To be considered as a substitute, submit additional information on construction materials / components to prove compliance with section 15650 – 2.05.A.
4. There is no digital Building Management Control system (BMS) on the project. Controls are hardwired and must be built-in or coordinated with the general HVAC controls supplier. Contractor to confirm that all controls, interlocks, and alarms as indicated in the Contract Drawing Sequence of Operation H-6 will be provided.
5. Confirm extra materials will be provided as indicated in specification section 15650-2.05.A.3.
6. Confirm coatings will be applied as required by the Packaged Air Conditioning/Heat Pump Schedule Notes on Contract Drawing H-3. Please provide coating information and chemical resistance charts.
7. Confirm the cooling capacities listed in the submittal account for coatings provided.
8. Confirm Modulating Hot Gas Reheat is included on all units.
9. Confirm economizers are provided with differential enthalpy plus fixed dry bulb control.
10. Confirm supply fans are direct drive and provided with VFDs.
11. Confirm all units with R454B refrigerant are provided with A2L leak detection, alarm, and refrigerant circuit shutdown capability. Contractor to coordinate leak detection unit operation with duty / standby controls where applicable.
12. Confirm all units are provided with a roof curb 16 inches in height as required by spec paragraph 2.05.A.13.e.

POWERS OF ARKANSAS -
RESUBMIT NOTES 11/10/2025:
1. REVISED SUBMITTAL PER SPEC SECTION 15650
2. REVISED SUBMITTAL AMERICAN IRON AND STEEL COMPLIANCE - SEE BELOW
3. REVISED SUBMITTAL PER SPEC SECTION 15650-2.05.A.
4. REVISED SUBMITTAL UNIT HAS FACTORY CONTROLLER - FIELD CONTROLS PER DRAWING H-6 PROVIDED BY OTHERS
5. REVISED SUBMITTAL INCLUDES SPEC SECTION 15650-2.05.A. ADDITIONAL ITEMS OIL & FILTERS - PAGE #8 F9A BELOW - [1] LUBRICATING OIL SHIPS LOSE
6. REVISED SUBMITTAL INCLUDES CORROSIVE COATING PER DRAWING NOTE H-3 SEE ATTACHED HERESITE AND SUBMITTAL CALL OUT ON PAGE #9 F.37 & PAGE #15 BELOW
7. REVISED SUBMITTAL CAPACITES ACCOUNT FOR COATINGS.
8. REVISED SUBMITAL MHGRH CALLED OUT ON PAGE #9 F11A. BELOW
9. REVISED SUBMITAL NO ECONOMIZER
10. REVISED SUBMITAL DIRECT DRIVE FANS WITH ECM CALLED OUT ON PAGE #8 F3.4/F3.B/F3.C BELOW
11. REVISED SUBMITAL A2L COMPLIANT SEE ON PAGE #10 BELOW

I cannot say for sure if we have ever provided a letter or not to a customer. But all our raw material steel, Copper, Galvanized, Aluminum, & Stainless we get from domestic mills.



Jimmy T Davis
Category Manager-Raw Materials

AAON, Inc.
p: 918-382-6525
2425 S Yukon Ave
Tulsa, OK 74107
www.aaon.com

BLACK & VEATCH NOTES FROM SEPTEMBER 3, 2025

PHP-L02

1. Heat pump capacity appears below scheduled capacity. Confirm intent to operate heat pump and auxiliary electric coil simultaneously.
2. Confirm unit MCA with electric heat. If unit MCA is higher than listed in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3, Contractor to coordinate any needed changes with electrical at no additional cost to the owner.
3. Contractor to coordinate any changes due to weight distribution or different dimensions with the structural engineer at no additional cost to owner.
4. Economizer and power exhaust is not required as indicated in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Confirm fixed OA operation for unit.

POWERS OF ARKANSA-
RESUBMIT NOTES 11/10/2025:

1. REVISED CAPACITY ON PAGE #5 BELOW - PAGE #6 HEAT PUMP CAPACITY TABLE AY DIFFERENT AMBIANT CONDITIONS.
2. REVISED SUBMITTAL PAGE #5 AUXILIARY HEAT
3. REVISED SUBMITTAL WEIGHT 756lbs vs. SCHEDULED OF APPROX 1500lbs - PAGE #5 BELOW
4. REVISED SUBMITTAL FIXED OA DAMPER

Unit Rating

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

RQA-004-A-A-3-GJBTA-A02NB:00-0EDGD-E00-00000-00000-DC-000
A-00-Q0-0-AN0-EB-GA0A-00-000-B00B00-G0000B-000000C

Tag: PHP_L02

Job Information

Job Name:	*Bentonville WRRF*
Job Number:	*Bentonville WRRF*
Site Altitude:	*1266*
Refrigerant:	*R-454B*
Design System Charge (oz):	*462*

Unit Information

SCHEDULED WEIGH 1300lbs

Approx. Op./Ship Weights:	*756 lbs / 756 lbs (±5%)*
Ambient Temperature (DB/WB):	*102.0 °F / 75.0 °F*
Coil Filter FV / Qty:	*144.0 fpm / 2*
Min. Room Area/Height/Airflow**:	*433 ft² / 7 ft / 782 SCFM*
Outside Air Prefilter FV / Qty:	*286.4 fpm / 1*
Supply Airflow/ESP:	*800 SCFM / 0.93 in. w.g.*
Outside Airflow:	*525 SCFM*
Return Airflow/ESP:	*288 SCFM / 0.05 in. w.g.*
Return Temperature (DB/WB):	*87.0 °F / 71.5 °F*

Static Pressure

External:	*0.93 in. w.g.*	Economizer:	*0.03 in. w.g.*
Cooling Coil:	*0.11 in. w.g.*	Heater:	*0.04 in. w.g.*
Filters Clean:	*0.02 in. w.g.*	Cabinet:	*0.00 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*	Total:	*1.49 in. w.g.*
Reheat Coil:	*0.02 in. w.g.*		

Cooling Section

	Gross	Net
Total Capacity:	*47.8 MBH*	*46.5 MBH*
Sensible Capacity:	*33.6 MBH*	*32.4 MBH*
Latent Capacity:	*14.1 MBH*	
Mixed Air Temp (DB/WB):	*96.8 °F / 73.8 °F*	
Entering Air Temp (DB/WB):	*96.8 °F / 73.8 °F*	
Lv Air Temp (Coil) (DB/WB):	*54.5 °F / 54.5 °F*	
Lv Air Temp (Unit) (DB/WB):	*56.0 °F / 55.0 °F*	

Supply Air Fan:	*1 x RQ185D60 @ 0.39 BHP Ea.*
SA Fan RPM / Width:	*1330 RPM / 1.750 in*
SA Fan FEI:	*1.54*
Evaporator Coil:	*5.0 ft² / 6 Rows / 12 FPI*
Evaporator Face Velocity:	*160.0 fpm*

Heating Section

Preheat Type:	*Std (No Preheat)*
Integrated Heat Capacity:	*23.8 MBH*
Primary Heat Type:	*Heat Pump*
Total Capacity:	*26.1 MBH*
OA Temp (DB/WB):	*15.0 °F / 9.0 °F*
RA Temp (DB/WB):	*35.2 °F / 30.0 °F*
Entering Air Temp (DB/WB):	*21.9 °F / 17.0 °F*
Leaving Air Temp (DB/WB):	*48.2 °F / 33.6 °F*
Input (Emergency/Aux):	*20.0 kW / 20.0 kW*
Fan Temp Rise:	*1.4 Δ°F*
Auxiliary Heating Type:	*Electric Heat*
Heating Airflow:	*800 SCFM*
Emergency Capacity:	*20.0 kW*
Auxiliary Capacity:	*20.0 kW*
Emergency Entering Air Temp (DB/WB):	*21.9 °F / 17.0 °F*
Emergency Leaving Air Temp (DB/WB):	*104.5 °F / 59.2 °F*
Auxiliary Entering Air Temp (DB/WB):	*48.2 °F / 33.6 °F*
Auxiliary Leaving Air Temp (DB/WB):	*130.7 °F / 67.8 °F*
Electric Heat FLA:	*24.1*

AUX HEAT OPERATES WHILE HEAT PUMP IS IN OPERATION

Re-heat Coil:

Capacity:	*16.2 MBH*
Leaving Air Temp (DB/WB):	*75.0 °F / 62.0 °F*
Relative Humidity:	*48.7%*

Rating Information

Listing Model	*RQ-004-3-0-GBBC-V0-21-000-A*
Cooling Capacity:	*45.0 MBH*
Cooling EER2:	*12.0 BTU/h·W*
Cooling SEER2:	*14.5 BTU/h·W*

**Rated in accordance with AHRI 210/240*

Application EER @ Op. Conditions:	***11.6 BTU/h·W***
Application COP @ Op. Conditions:	***3.38 W/W***

Heating High Temp Capacity:	*43.0 MBH*
Heating HSPF2:	*7.0 BTU/h·W*
Heating High Temp COP2:	*3.65 W/W*

Electrical Data

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

Circuit 1

Rating:	*460V/3Ø/60Hz*	*Minimum Circuit Amp:*	*46* SCHEDULED MCA 40.1
Unit FLA:	*38*	*Maximum Overcurrent:*	*50*
SCCR:	*10 KAIC*		

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	*1*		*460*	*3*			*7.7*
Condenser Fan:	*2*	*0.33*	*460*	*1*	*1100*	*1.6*	
Supply Fan:	*1*	*1.00*	*230*	*1*	*1760*	*7.0*	

Cabinet Sound Power Levels*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW (dB):	*77*	*77*	*78*	*69*	*62*	*60*	*57*	*51*
Return LW (dB):	*74*	*69*	*67*	*59*	*57*	*55*	*49*	*42*

**Sound data is generated by a propriety acoustics model validated through unit testing in accordance with AHRI 260, utilizing tested fan sound data in accordance with AMCA 300.*

*****The minimum floor area is based on the Lower Flammability Limit (LFL) and calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.***

HEAT PUMP Performance Data Table

Outside Air		Mixed Air		Leaving Air		Heat Pump Capacity	Heat Pump Integrated Capacity	Heat Wheel Heating Capacity	Heating COP
DB °F	WB °F	DB °F	WB °F	DB °F	WB °F	MBH	MBH	MBH	W/W
62.0	56.2	52.8	48.6	116.1	70.9	54.4	54.4		4.01
57.0	51.6	49.5	45.1	108.2	67.3	50.6	50.6		4.05
52.0	47.1	46.2	41.8	100.4	63.8	47.0	47.0		4.05
47.0	42.6	42.9	38.6	92.9	60.2	43.6	43.6		4.04
42.0	38.0	39.7	35.4	85.7	56.6	40.4	40.4		4.00
37.0	33.5	36.4	32.4	72.9	50.6	37.5	32.2		3.42
32.0	28.8	33.1	29.2	67.3	47.3	34.7	30.4		3.43
27.0	24.3	29.8	26.3	61.7	44.0	32.1	28.5		3.42
22.0	19.7	26.5	23.5	56.2	40.6	29.7	26.7		3.42
17.0	15.0	23.3	20.6	50.9	37.2	27.5	25.0		3.42
12.0	10.4	20.0	17.8	*	*	*	*		*
7.0	5.7	16.7	15.1	*	*	*	*		*
5.0	2.0	15.4	12.9	*	*	*	*		*
2.0	0.1	13.4	11.8	*	*	*	*		*
0.0	0.0	12.1	11.7	*	*	*	*		*

**Invalid operation point - Compressor operating outside of operating envelope*
***Electric preheat is used to maintain the entering air temperature when applicable.*

18.5" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PHP_L02*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*2200*
Diameter x Qty:	*18.5 in. x 1*
CFM:	*800*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*800*
Fan Energy Index (FEI):	*1.54*
Static Pressure:	*1.49 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*1.56 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*1.56 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*1 x 1 / No*
Frame Size:	
Nominal RPM:	*1760*
VAC/PH/HZ:	*230V/1Ø/60Hz*
Enclosure Type:	*ODP*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE:

RPM:	*1330*
BHP:	*0.39*
Efficiency:	*48.18%*
Max Duct SP with Blocked Airway:	*0 in. Wg @1330 RPM*

Max Duct SP with Blocked Airway:

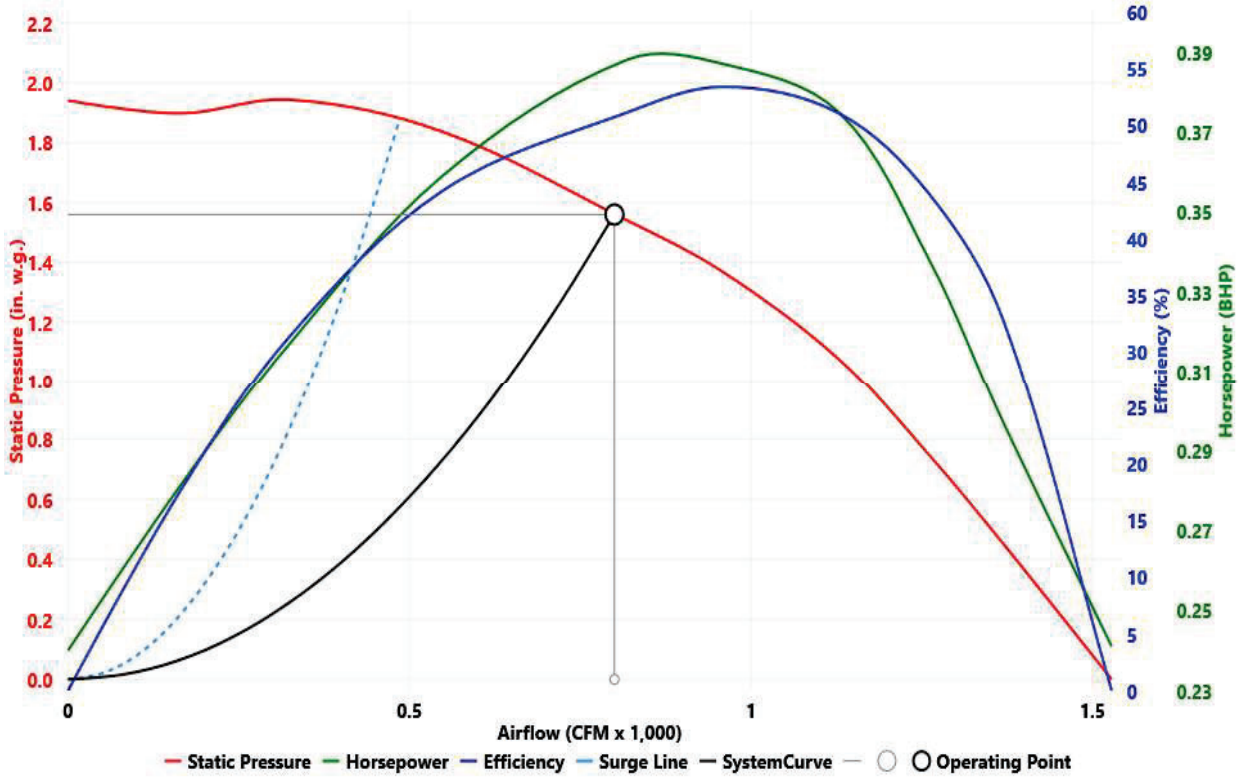
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
77	77	78	74	69	67	64	58
77	77	78	74	69	67	64	58

SOUND POWER A-Weighted: 78 dB

Supply Fan Model: RQ185D60 @ 1330 RPM and 100% Width
Design Conditions: 800 CFM @ 1.56 in. w.g. SP



AAON®

Unit Submittal

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

RQA-004-A-A-3-GJBTA-A02NB:00-0EDGD-E00-00000-00000-DC-000
A-00-Q0-0-AN0-EB-GA0A-00-000-B00B00-G0000B-000000C

Tag: *PHP_L02*

Job Name: *Bentonville WRRF* **Unit Worksheet For:**

Job Number: *Bentonville WRRF* **Unit Worksheet Date:** *11/11/2025*

	Base Option	Description
RQ	Generation	RQ Series
A	Major Revision	Major Revision A
004	Unit Size	Four
A	Series	A Series
A	Minor Revision	Minor Revision A
3	Voltage	460V/3φ/60Hz
G	Compressor Style	R-454B Variable Capacity Scroll Compressor
J	Condenser Style	Alpha Class - Air-Source Heat Pump
B	Indoor Coil Configuration	6 Row Evaporator
T	Cooling Heat Exchanger Construction	Stainless Steel Evap. Coil Casing + Polymer E-Coated Evap. And Cond. Coils
A	Cooling Staging	Modulating
A	Heat Type	Electric Heat
0	Heat Construction	Standard
2	Heat Designation	Heat 2 - 20 kW
N	Heat Staging	Modulating SCR Electric - Temperature Control
B	Heat Pump Auxiliary Heating	Heat Pump Auxiliary Heat - 20kW - Modulating

	Feature Option		Description
0	F1.	Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	F2.	Supply & Return Locations	Bottom Discharge and Return
0	F3A.	Supply Fan Quantity	1 Fan
E	F3B.	Supply Fan Configuration	No VFD's + Narrow Width Fan
D	F3C.	Supply Fan Size	18.5" Direct Drive Backward Curved Aluminum
G	F3D.	Supply Fan Motor Type	ECM Motor (1,800 nominal rpm)
D	F3E.	Supply Fan Motor Size	1 HP
E	F4A.	Outside Air Section	Manually Adjustable OA Opening + RA Opening
0	F4B.	Energy Recovery Type	No Energy Recovery
0	F4C.	Energy Recovery Size	No Energy Recovery
0	F5A.	Return Fan Quantity	0 Return Fans
0	F5B.	Return Fan Configuration	No Return Fan
0	F5C.	Return Fan Size	No Return Fan
0	F5D.	Return Fan Motor Type	No Return Fan
0	F5E.	Return Fan Motor Size	No Return Fan
0	F6A.	Exhaust Fan Quantity	0 Exhaust Fans
0	F6B.	Exhaust Fan Configuration	No Exhaust Fan
0	F6C.	Exhaust Fan Size	No Exhaust Fan
0	F6D.	Exhaust Fan Motor Type	No Exhaust Fan
0	F6E.	Exhaust Fan Motor Size	No Exhaust Fan
D	F7.	Outside Air Control	Manually Adjustable OA Opening + RA Opening
C	F8.	Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	F9A.	Unit Filter Type	2" Pleated - MERV 8 PLUS [2] EXTRA SET PER SPEC 15650-2.05.A.3.
0	F9B.	Unit Filter Size & Location	Standard Filters in Standard Position
0	F9C.	Final Filter Type	No Final Filters
A	F9D.	Filter Options	Clogged Filter Switch - Unit Filters
0	F10A.	Refrigeration Control A	Standard - Adj Comp. Cooling Lock Out Through Unit Controls

	Feature Option		Description
0	F10B.	Refrigeration Control B	Standard
Q	F11A.	Refrigeration Options A	Polymer E-Coated Modulating Hot Gas Reheat
0	F11B.	Refrigeration Options B	Standard Packaged Unit
0	F12.	Refrigeration Accessories	None
A	F13A.	Unit Disconnect Type	Non-fused Disconnect Power Switch
N	F13B.	Disconnect 1 Size	100 Amps
0	F13C.	Disconnect 2 Size	Standard - None
E	F14.	Safety Options	Remote Safety Shutdown Terminals
B	F15.	Electrical Accessories	Phase & Brownout Protection
G	F16A.	Control Sequence	Single Zone VAV Heat Pump Unit Controller - VAV Cool + VAV Heat
A	F16B.	Control Supplier	AAON Controls
0	F16C.	Control Supplier Options	None
A	F16D.	BMS Connection & Diagnostics	BACnet IP or MSTP
0	F17A.	Preheat Configuration	Standard - None
0	F17B.	Preheat Sizing	Standard - None
0	F18A.	Option Box Location	None
0	F18B.	Option Box Size	None
0	F18C.	Option Box Accessories	None
B	F19.	Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20.	Cabinet Options	Standard - None
0	F21.	Accessories	Standard
B	F22.	Maintenance Accessories	115V Convenience Outlet Field Wired
0	F23.	Code Options	Standard - ETL U.S.A. Listing
0	F24.	Shipping Splits	Standard
G	F25.	Air-Cooled Condenser Accessories	Cond. Coil Screen + ECM Condenser Fan Head Pressure Control
0	F26.	Evap-Cooled Condenser Accessories	Standard
0	F27.	Water-Cooled Condenser Accessories	None
0	F28.	Energy Recovery Accessories	None
0	F29.	VFD Options	Standard
B	F30.	Miscellaneous Options	SCCR (10kA)
0	F31.	Blank	Standard
0	F32.	Blank	Standard
0	F33.	Blank	Standard
0	F34.	Blank	Standard
0	F35.	Warranty	Standard - 2 Year Parts Warranty
0	F36.	Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
C	F37.	Specials & Paint	Premium AAON Gray Paint Exterior Paint + HERESITE P-413 Interior Corrosion Protection

Controller Components

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 1 2 3A 3B 3C 3D 3E 4A 4B 4C 5A 5B 5C 5D 5E 6A 6B 6C 6D 6E 7 8 9A 9B 9C

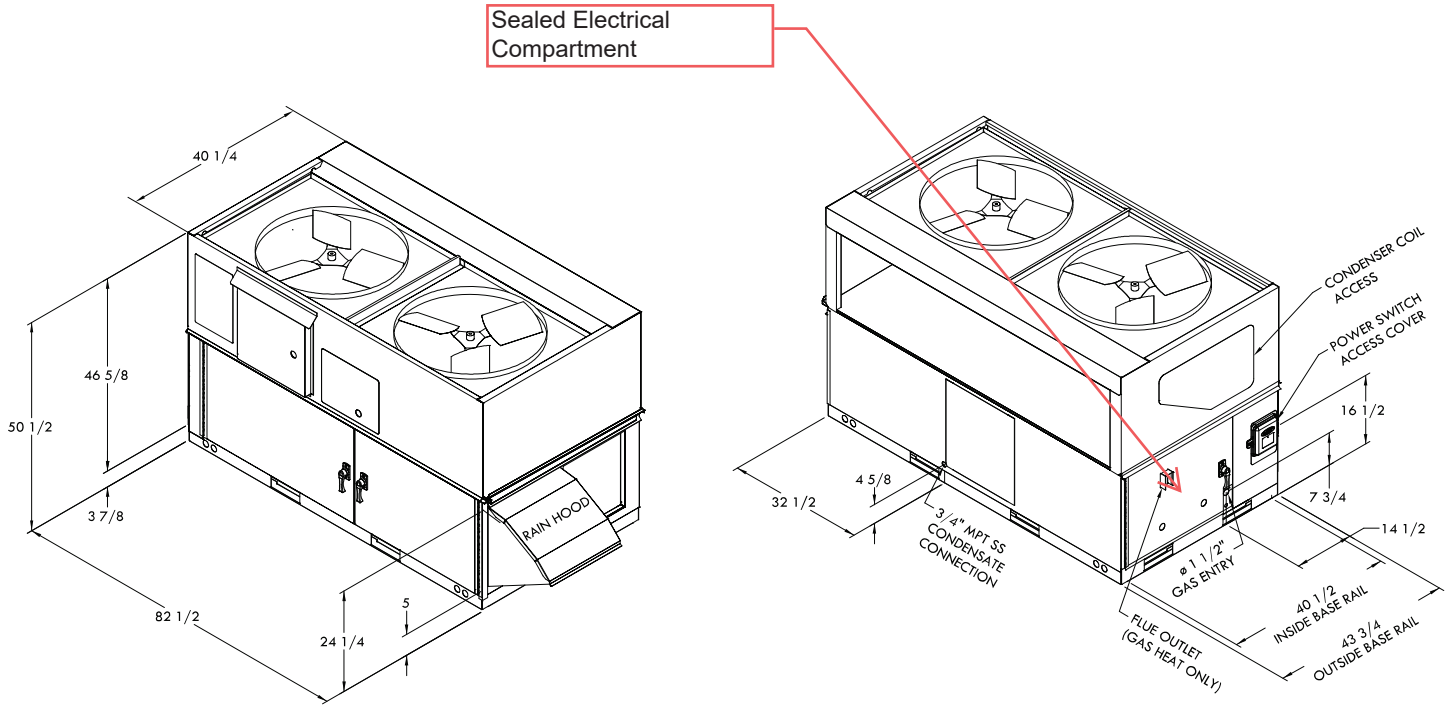
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9D 10A 10B 11A 11B 12 13A 13B 13C 14 15 16A 16B 16C 16D 17A 17B 18A 18B 18C 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

Tag: PHP_L02

Job Name:	Bentonville WRRF	For:	
Job Number:	Bentonville WRRF	Date:	November 11, 2025

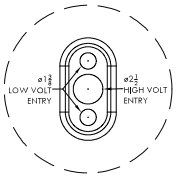
Part#	Included Parts	Assigned Channel	BACnet Point
ASM07503	VCCX-454 CONTROLLER		
ASM01692	OSA Temp/Hum Sensor	EBUS2 Communicating Sensor	AI:16,AI:17,AI:18,AI:19
ASM01820	Space Digital Temp/Hum Sensor	EBUS3 Communicating Sensor	AI:12,AI:13
R82890	Supply Temp Sensor - Field Installed	VCCX Control Point AI3	AI:9
	Supply Fan Control Signal 0-10VDC	VCCX Control Point AO1	AI:22
	Economizer	VCCX Control Point AO2	AI:30
	Modulated Heating (0-10VDC)	VCCX Control Point AO3	AI:35
R62330	Proof of Air Flow	VCCX Control Point BI1	BI:6, BI:24
G150620	Clogged Filter Switch (Standard Filters)	VCCX Control Point BI2	BI:25
	A2L Airstream Leak Detect Status	VCCX Control Point BI5	BI:9
	Safety Shut Down	VCCX Control Point BI8	BI:26
	Supply Fan	Configured Relay Point	BI:0
	Heat 1	Configured Relay Point	BI:1
ASM07563	A2L MITIGATION BOARD 1		
G137750	Gas Sensor 1	A2L MB1 AI1	
	Supply Fan Proof of Flow	A2L MB1 BI1	
	Alarm Output	A2L MB1 Fixed RO3	
ASM07716	REFRIGERATION MODULE		
V38391	Suction Pressure Sensor A	RM454-D SP-1	AI:48
V38410	Discharge Pressure Sensor A	RM454-D HP-1	AI:50
	Comp Discharge Temp A	RM454-D TEMP1	AI:66
	Modulated Condenser Signal A	RM454-D AOUT1	AI:46
G017740	O.D. Coil Defrost Temp Switch	RM454-D BIN3	BI:81
	Comp Status Input A	RM454-D BIN1	BI:77
	Emergency Shutdown	RM454-D BIN4	BI:83
	Comp Enable A	RM454-D RLY1	BI:84
	Comp Unload Signal A	RM454-D COMP1	AI:44
	Reversing Valve Enable	RM454-D RLY5	BI:88
ASM01670	MODULATING HOT GAS REHEAT MODULE		
	Reheat HGR Valve	MHGRV-X	AI:42



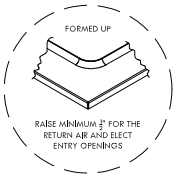
ALL DIMENSIONS IN INCHES

RQ CABINET ALPHA CLASS HEAT PUMP
AIR COOLED WITH ECONOMIZER

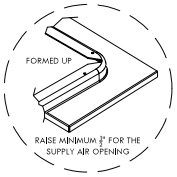
Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L02	RQ-00107



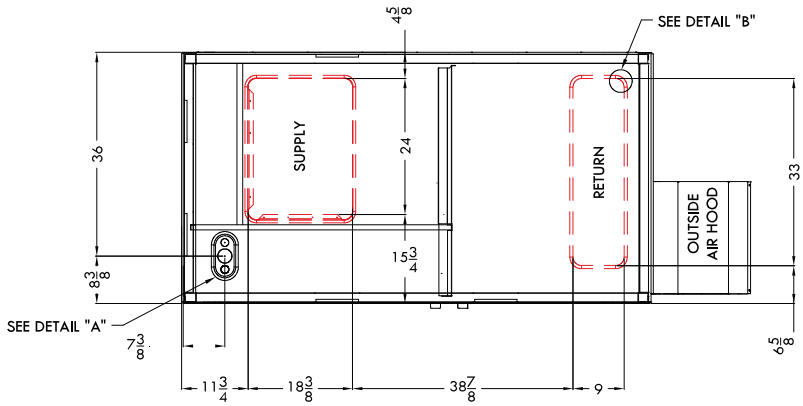
DETAIL A
UTILITY ENTRY

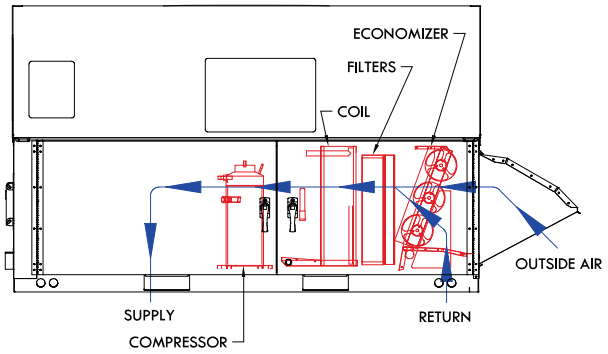


DETAIL B
RETURN AIR AND UTILITY
ENTRY OPENINGS



DETAIL C
SUPPLY AIR OPENING





ALL DIMENSIONS IN INCHES

RQ CABINET ALPHA CLASS HEAT PUMP
AIR COOLED WITH ECONOMIZER

Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L02	RQ-00107

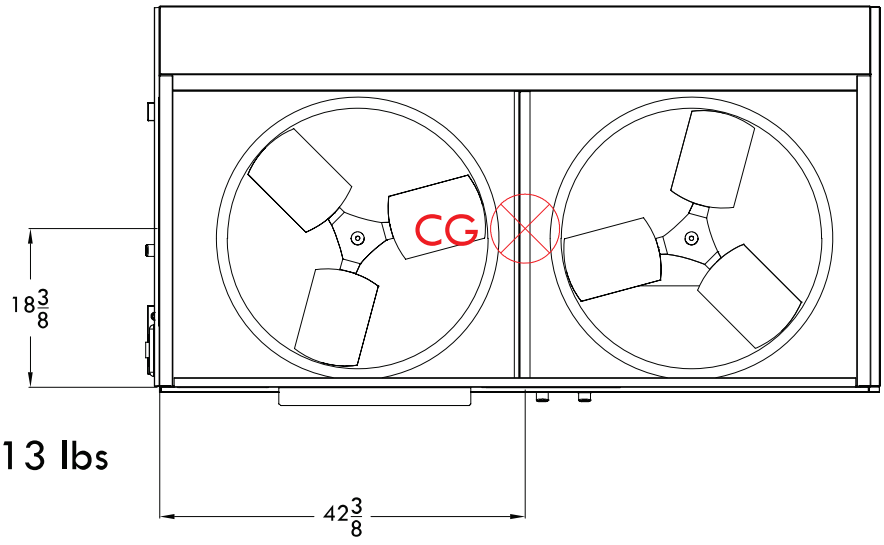
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Shipping Weight: 756 lbs ±5%
Operating Weight: 756 lbs ±5%
Center of Gravity (X, Y): 42.4 in, 18.4 in

LEFT

153 lbs

164 lbs

CONTROLS



OUTSIDE AIR

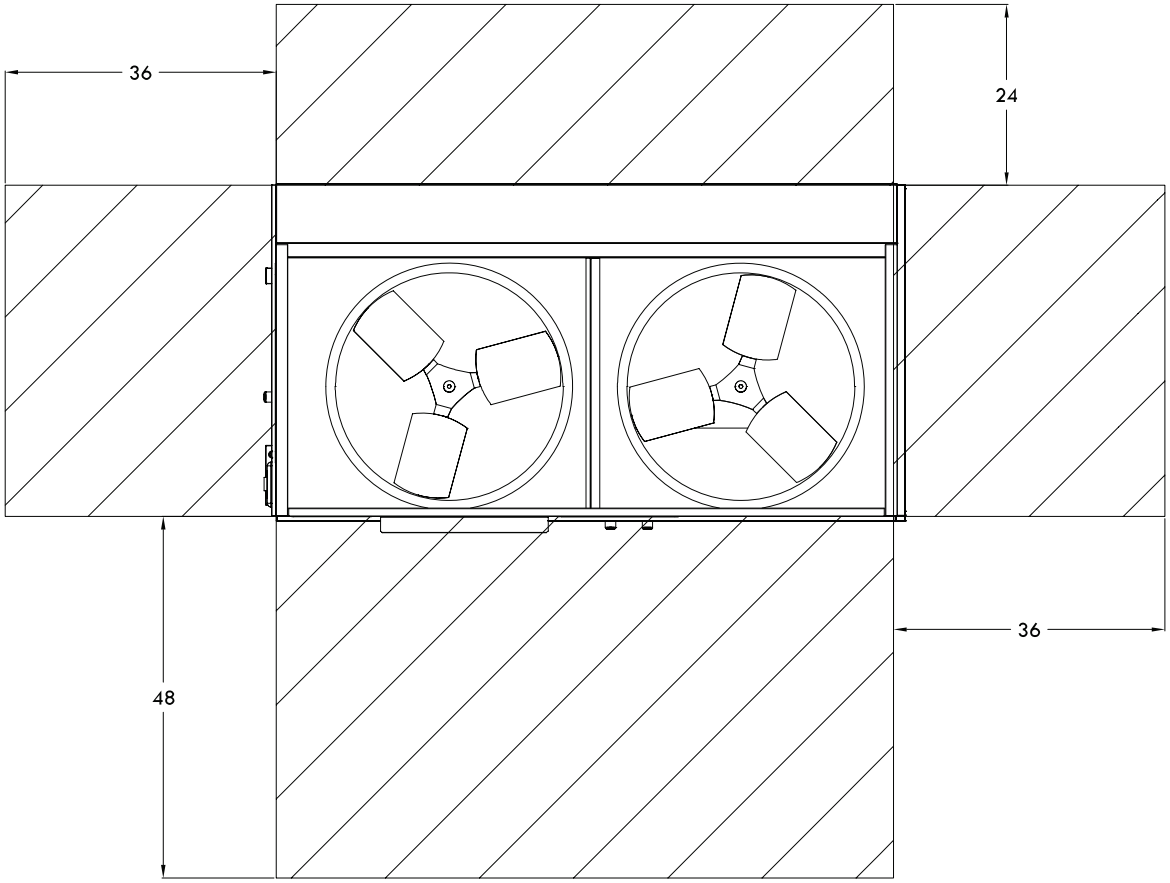
213 lbs

227 lbs

RIGHT

ALL DIMENSIONS IN INCHES

	UNIT CORNER WEIGHTS AND CG		
Job Name: Bentonville WRRF		Unit Tag: PHP_L02	Drawing No.: RQ-00107



ALL DIMENSIONS IN INCHES

UNIT CLEARANCES

Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L02	RQ-00107

Heresite P-413

Our 50 years of coating history speaks for itself.

In 1964, Heresite was the first company to apply coatings to aluminum-finned, copper-tubed heat exchangers. The Heresite coating became then, and still remains a standard in the industrial coatings industry. We provide the highest quality protective coatings for air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. Our phenolic epoxy has an advantage of dense cross linking and can therefore be applied as a very thin film maintaining stable heat transfer.

We continue our focus on innovation and again have a new story to tell, as we introduce our updated P-413

- A high performance phenolic epoxy coating developed specifically for heat exchangers.
- The flexibility and corrosion resistance of Heresite P-413 appreciably increases the service life of your heat exchange equipment.
- It is specially suited for coating light gauge metals in equipment operating in severe corrosive environments.

P-413 Specifications

The coil will receive a uniform coating on all surfaces, including fin edges, with P-413, a thermoset, modified phenolic coating. Application of P-413 will be through multiple coats by immersion or flow coating to a film thickness of approximately 1.0 mil.

P-413 provides corrosion protection in a 6,000 hour salt spray test in accordance with ASTM B-117 and humidity resistance of >2,000 hours per ASTM D2247. Chemical resistance is demonstrated via 100+ acetone double-rubs per ASTM 5402. P-413 also exhibits superior hardness of 5–6H per ASTM D3363, adhesion of 5B per ASTM B3359 and impact resistance of 160 in/lbs (ASTM D2794). Color shall be brown with gloss of 20–60 — 60 degree. If the coils are to be subjected to direct ultraviolet (UV) exposure, a spray-applied UV-resistant topcoat is an option.

Effective date: 10/09/17

P-413 Typical Properties (@ 1 mil DFT)

Salt Spray: ASTM B-117: 6,000+ hours

SWAAT: ASTM G85-11 Section A.3: Passed 1,000 hours using pressurized coil (see page 2 for results)

Cyclic Weathering: ISO 20340 Offshore Standard: Passed (4,200 hours)

Performance Testing: ISO 12944-6 C5 I/M: Passed C5-M high durability and C5-I high durability

Heat Transfer Reduction: <1% as applied for heat transfer components

Humidity: ASTM D-2247: 2,000+ hours

Simulated Sea Water Resistance: 2,000 hours

Solvent Resistance: ASTM-D5402: 100 acetone double rubs

Cross-hatch Adhesion: ASTM D-3359: 5B

Mandrel: ASTM-D522: >1/4 inch

Impact: ASTM D-2794: 160 lb/inch steel; 40 lb/inch aluminum

pH Range (14 day liquid spot test): 2.4–12.6

Temperature Cycling (4 hours at –75°C; 4 hours at 190°C): 4B–5B adhesion after 5 cycles

Dry Heat Resistance (4 hours at 200°C; 20 minutes at 232°C): 4B–5B adhesion after 5 cycles

Dry Film Thickness: ~1 mils

Hardness: ASTM D3363: 5–6H

Gloss: 20–60 on 60 degree meter (topcoat dependent)

Microchannel Compatible

Abrasion Resistance: 30–40 mg loss per 1,000 cycles

Meets FDA 175.300 for indirect food contact

Meets MIL Spec: MIL-C-18467, MIL-E-480 and MIL-STD-883 Method 1101

Meets Other Specs: Honeywell MC 7200-01 and GE F50T17

Thermal Conductivity: At approximately 2 mils thickness, Thermal Conductivity is less than 1.0 w/mK

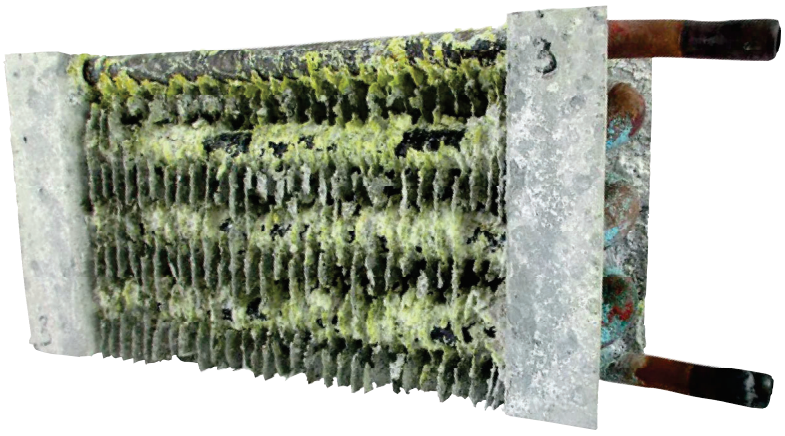
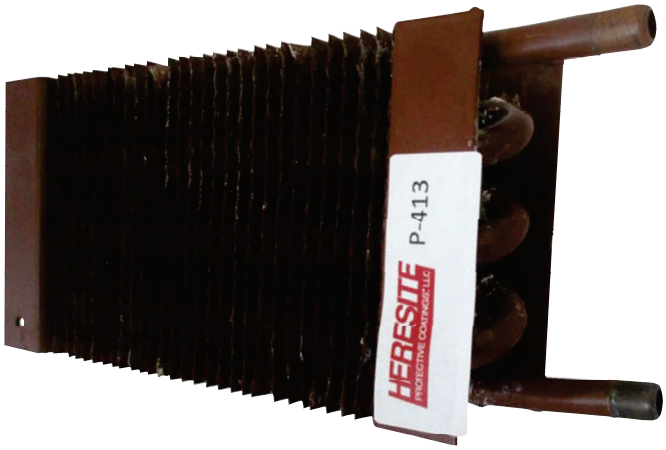
Dielectric Strength [ISO2376:2010(e)]: 286 volts per mil of thickness

NSF Certified – ANSI 51 Certification of Coatings for Food Zone – Non Contact

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HERESITE® PROTECTIVE COATINGS, LLC

SWAAT Results

	**Bare 1,000 hour SWAAT**
	**P-413 1,000 hour SWAAT**
	**P-413 + topcoat 1,000 hour SWAAT**

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Product Description
Baking cross-linked phenolic epoxy

Recommended Uses
Heresite P-413 is a high performance coating used principally for heat transfer components and parts — especially air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. This phenolic epoxy has an advantage of dense cross linking and are therefore highly corrosion resistant even when applied as a very thin film.

Chemical Resistance
P-413 is chemically resistant to a wide range of acids, solvents, and inorganic salts. Please review chemical resistance guide for further information.

Packaging Information
P-413 is available in one gallon, five gallon and 54 gallon drum quantities.

Thinners and Cleanup
Recommended use of Heresite S-275.

Storage Conditions
Coating should not be stored longer than 6 months. Coating should be stored in a clean, dry environment at 50–75°F. Keep out of direct sunlight. Avoid excessive heat and keep from freezing.

Physical Properties
Solids by weight: Approximately 73%

Solids by volume: Approximately 57%

Pot life: NA

Mixing Ratio by Volume: NA 1 component

Shelf life: 6 months

Color: Brown

VOC Content
2.25 lbs/gal (270 g/L) as supplied

Film Thickness
For heat transfer, a 2 coat immersion process will typically yield a dry film thickness of 1.0–2.0 mils (25–50 microns).

For other parts, please contact Heresite.

Coverage
Theoretical coverage is 800 square feet per gallon per dry mil. Coverage rates are estimates and make no allowance for material loss. Actual rates will vary dependent on application method, surfaces, etc.

Surface Preparation
All surfaces must be clean, sound, and free of any oils, dirt, grease, wax and any other contamination that may interfere with coating adhesion.

In general, the surface should be cleaned by solvent or a cleaner at elevated temperature followed by a clean water rinse. Rinse water shall have a conductivity of lower than 500 microsiemens and a neutral pH (7.0–8.0). All surfaces must be dried prior to application of coating.

In cases where there is a large amount of contamination or heat treated steel, a commercial blast is acceptable in accordance with NACE #3 or SSPC-SP-6-63 specifications. Surface profile or anchor pattern shall be 20–25% of the recommended dry film thickness.

Thinning
Reduce P-413 with S-275 solvent to 13–13.5 seconds on ISO Dip 3 mm Cup. This requires approximately a 1:1 dilution by volume.

The amount of thinner required is dependent upon temperature, ventilation, humidity, application type and desired film thickness.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Application

Application is specific to heat transfer components, for other parts — please contact Heresite.

Immersion Application:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Consult Heresite for tank and pump recommendations.
4. Ensure as the part is prepared for immersion, one will have a low point for drainage.
5. Immerse the cleaned part for 15 seconds in the reduced P-413.
6. Upon removal of the part from the coating, apply light air pressure (approximately 15 psi) using an Air Knife or similar device to spread the air flow. Using the compressed air, remove excess coating. Minimal brushing should be required.
7. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
8. Typically, a two coat immersion process is required to achieve 1.0 to 1.5 mil DFT. An intermediate bake is required between coats — see baking schedule.
9. It may be deemed desirable to apply a final aesthetic spray. This can be accomplished immediately after the final immersion is accomplished and prior to final bake.
10. During immersion application, the viscosity must be maintained and monitored. It is recommended that the viscosity be checked every hour to ensure compliance with the specification of 13–13.5 seconds. Additional solvent and coating can be added to adjust viscosity as needed.

Spray Application for Final Aesthetic Spray:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective.
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Typically, a one coat process is required to achieve 0.5 to 1.0 mil DFT.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Spray Application for Higher Film Build — 4–6 mil:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective (13.0–13.5 seconds ISO Dip 3 mm).
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film. Allow a minimum of 10 minutes to allow the slow solvents to evaporate. Then apply another 2–3 crisscross multi-passes.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Intermediate bake at 130°C (metal temperature) for a minimum of 10 minutes.
12. Repeat steps 7–10.
13. Final bake per the instructions within the bake schedule.
14. Typically, a two to three coat process is required to achieve 4.0 to 6.0 mil DFT.

Bake Schedule

Intermediate Bake:

1. 90°C (metal temperature) for a minimum of 10 minutes.
   a. To decrease the bake time, a maximum temperature of 130°C may be used.

Final Bake:

1. "Normal" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 15 minutes, then increased to 190°C. 190°C (metal temperature) held for 45 minutes.
2. "Soft Solder" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 130 minutes.

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKERS MUST WEAR FRESH AIR LINE RESPIRATORS. PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMERS SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESS OR IMPLIES, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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HERESITE® PROTECTIVE COATINGS, LLC

HERESITE

PROTECTIVE COATINGS®
LLC

Chemical Resistance Guide

Test data for the products published in this guide are determined by immersion of a coated panel in the chemical being tested. Additional information on the coating's resistance is achieved through the coating's history in actual service environments.

Temperature and concentration data are not necessarily the maximum operating conditions. They are the temperature and concentrations at which the specified coating system has been tested. The coating system may be suitable for higher temperatures and different concentrations but additional information or testing would be required.

Date: May 2019
(supersedes all previous copies)

To the best of our knowledge, the technical data contained herein is true and accurate at the date of insurance and are subject to change without prior notice. User must contact laboratory to verify corrections before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance, or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost are subject to change without prior notice. **NO OTHER GUARANTEE OF ANY KIND IS MADE BY SELLER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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HERESITE PROTECTIVE COATINGS, LLC

Key to the Guide

A	Coating is resistant, for continuous immersion, against attack from the chemical listed
B	Coating is resistant against attack from fumes of the chemical listed. For immersion service of the chemical please refer to a coating with an **A** or **LR** listed or contact Heresite Protective Coatings.
C	Coating will provide the necessary 72 hours resistance required for secondary containment. Coatings are not recommended for continuous immersion.
LR	Limited Recommendation, contact Heresite Protective Coatings, Inc. for assistance.
NR	Coating is not recommended for the service conditions.
Blank	Coating has insufficient test data for the service conditions.

Coatings are continuously being tested in a wide rage of service conditions. If you condition is not among the ones listed contact Heresite Protective Coatings at 920-684-6646 for assistance.

Coatings Included in This Guide

P-403L	High bake phenolic. P-403L offers excellent resistance to solvents, acids and salts, including 70-98% sulfuric acid at tmperatures up to 120F.
P-403L/L-66L	High gloss phenolic system designed for use when abrasion and release properties are required. This system utilizes P-403L as the primer and L-66L as the topcoat.
EP-6379	Baked epoxy phenolic. EP-6379 is resistant to a wide range of pH environments found in fume control devices, chemical, drill, process pipes and is also used in storage and ISO tanks.
P-413	Modified baked phenolic designed for HVAC equipment and light gauge metal. In addition to marine and salt air environments, the P-413 family of coatings will withstand exposure to an extensive variety of corrosive and chemical fumes and condensate.
VR-514	Air dry phenolic. Excellent for resistance to corrosive fume atmospheres and is particularly good in marine and salt air environments. Typical applications include swimming pools, waste water, marine environments and as a general maintenance coating.
UC-5500 Series	Polyurethane. Formulated as a top coat for other Heresite coatings with outstanding UV resistance with excellent weathering qualities, along with good flexibilit yand good abrasion resistance.

For further information, please contact Heresite Protective Coatings, Inc.

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HERESITE PROTECTIVE COATINGS, LLC

Chemical Synonyms

Common Name	Chemical Name
Alum	Aluminum Sulfate
Barite	Barium Sulfate
Baking Soda	Sodium Bicarbonate
Bleach	Sodium Hypochlorite
Calcite	Calcium Carbonate
Caustic	Sodium Hydroxide
Caustic Potash	Potassium Hydroxide
Chalk	Calcium Carbonate
Cupric, Cuprous	Copper II & Copper I
Dental Gas	Nitrogen I Oxide
Diuretic Salt	Potassium Acetate
Dry Ice	Carbon Dioxide
Epsom Salt	Magnesium Sulfate
Ferric, Ferrous	Iron III & Iron II
Graphite	Carbon

Common Name	Chemical Name
Laughing Gas	Nitrogen I Oxide
Lime	Calcium Oxide
Lye	Sodium Hydroxide
Magnesia	Magnesium Oxide
Methylene Bromide	Methane Dibromide
Methylene Chloride	Methane Dichloride
Muriatic Acid	Hydrochloric Acid
Potash	Potassium Carbonate
Phenol	Carbolic Acid
Phosgene	Carbonyl Chloride
Pyrite	Iron Disulfide
Soda Ash	Sodium Carbonate
Stannic, Stannous	Tin
Sulphate	Sulfate
Table Salt	Sodium Chloride

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Acetaldehyde		60ºF	A			B	NR
Acetaldehyde		100ºF	A			B	NR
Acetic Acid	5%	100ºF	LR			B	
Acetic Acid	10%	70ºF	LR	LR	B	B	NR
Acetic Acid	10%	100ºF	LR	LR	B	B	NR
Acetic Acid	10%	150ºF	B	B	B	B	NR
Acetic Acid	25%	70ºF	LR	LR	LR	B	NR
Acetic Acid	25%	150ºF	B	B	NR	B	NR
Acetic Acid	50%	100ºF	LR	LR	NR	B	NR
Acetic Acid	50%	120ºF	LR	NR	NR	B	NR
Acetic Acid	50%	150ºF	LR	NR	NR	B	NR
Acetic Acid	56%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	120ºF	B	B	NR	B	NR
Acetic Acid	100%	150ºF	B	B	NR	B	NR
Acetic Acid, Glacial		70ºF	B	B		B	
Acetic Acid, Vapors		350ºF	A	A			NR
Acetic Acid100% & ½% Sulfuric Acid		77ºF	B	B			
Acetic Anhydride	100%	70ºF	A	A		B	NR
Acetic Anhydride/ Acetic Acid (50%/50%)		175ºF		NR			
Acetone		70ºF	A	A	A	B	NR
Acetone		100ºF	A	A	B	B	NR
Acetone		134ºF	A	A	B	B	NR
Acetophenone		100ºF	A				
Acetylene		150ºF	A	A		B	B
Acid Copper Bath		150ºF				B	B
Acid-Klenz (Klenzode Products)		100ºF	A				
Acrylamide		100ºF	A				
Acrylic Latex 103-100		150ºF	A	A		B	
Acrylic Syrup		100ºF	A				
Acrylonitrile		70ºF	A	A		B	
Acrylonitrile		171ºF	A	A			
Activated Carbon, Slurry		70ºF	A				
Adipic Acid/Ethyl Alcohol 60%/40%		70ºF	A			B	
Agree® Shampoo	100%	150ºF	A	A	A		
Alcohol Mash (distillery)		210ºF	A	A		B	B
Alcolated Cresol		180ºF	A				
Alkaline Electrotinning		150ºF				B	B
Alkyl Benzene		100ºF	A			B	
Alkyl Chloroformate	100%	68ºF	A			B	
Alkylaryl Sulfonate	2%	70ºF	A	A			

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HERESITE PROTECTIVE COATINGS, LLC

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Alkylaryl Sulfonate	2%	100ºF	A	A			
Alkylaryl Sulfonate	100%	100ºF	A	A			
Alkylaryl Sulfonate	100%	151ºF	NR				NR
Allyl Alcohol		100ºF	A	A		B	
Allyl Chloride	100%	68ºF	A	A			
Allyl Gylcidyl Ether		70ºF	A				
Aluminum Acetate	5%	100ºF	A				
Aluminum Chloride	10%	150ºF	B	A		B	B
Aluminum Chloride	11%	120ºF	B	A		B	B
Aluminum Chloride	25%	150ºF				B	B
Aluminum Chloride	100%	70ºF	B	LR		B	B
Aluminum Chloride/Benzene	13%	70ºF	B				
Aluminum Chlorhydrate		120ºF	A	A	A	B	
Aluminum Fluoride	5%	100ºF				B	B
Aluminum Fluoride	5%	150ºF				B	B
Aluminum Nitrate	50%	70ºF	B			B	B
Aluminum Oxide (in Sulfuric Acid)		120ºF	A	A	A	B	
Aluminum Oxide (Trihydrate)		120ºF	A	A	A	B	
Aluminum Sulfate	46½%	70ºF	LR	A	A	B	B
Aluminum Sulfate	46½%	122ºF	LR	LR	A	B	B
Aluminum Sulfate	46½%	200ºF	LR			B	B
Aluminum Sulfate/Copper Sulfate		120ºF	LR	LR	A	B	
Ammonia	10%	100ºF	A			B	B
Ammonia	10%	113ºF	A			B	B
Ammonia, Aqua	29%	100ºF	A			B	NR
Ammonia, Aqua	34%	100ºF	A			B	NR
Ammonium Acetate	25%	150ºF	B	A		B	B
Ammonium Acetate	75%	200ºF		A			
Ammonium Bifluoride		140ºF	A				
Ammonium Carbonate	25%	70ºF	A				
Ammonium Chloride	33%	110ºF	A	A		B	B
Ammonium Diurinate		100ºF	A				
Ammonium Fluoride		150ºF					NR
Ammonium Hydroxide	5%	70ºF	A	A		B	NR
Ammonium Hydroxide	10%	100ºF	LR	LR	NR	B	NR
Ammonium Hydroxide	10%	150ºF	LR	LR	NR		NR
Ammonium Hydroxide	25%	70ºF	A		LR	B	NR
Ammonium Hydroxide	29%	70ºF	A	B		B	
Ammonium Hydroxide	29%	100ºF	A	NR	NR	B	NR
Ammonium Hydroxide	29%	120ºF	B	NR	NR	B	NR
Ammonium Hydroxide	30%	150ºF	B	NR	NR		NR

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Ammonium Lauryl Sulfate	100%	150ºF			NR		
Ammonium Nitrate	50%	70ºF	A	A		B	B
Ammonium Nitrate	50%	212ºF	A	A	B	B	B
Ammonium Nitrate/Urea 42%/32%		100ºF	A				
Ammonium Persulfate	45%	110ºF	B			B	B
Ammonium Phosphate, Monobasic	50%	70ºF	A			B	B
Ammonium Stearate		70ºF	A				
Ammonium Stymer Solution		70ºF	A				
Ammonium Sulfamate		70ºF	A	A			
Ammonium Sulfate, Liquid slurry		70ºF	A			B	B
Ammonium Sulfate, Liquid slurry		200ºF	A				
Ammonium Sulfate/Sodium Sulfate 6%/6%		150ºF	A				
Ammonium Sulfide	40%	100ºF	A		A	B	B
Ammonium Sulfite	50%	70ºF	A				
Ammonium Thiocyanate Solution		100ºF	A			B	B
Ammonium Thiosulfate	60%	100ºF	A	A			
Amyl Acetate	100%	70ºF	A	A		B	
Amyl Acetate	100%	100ºF	A	A	NR	B	B
Amyl Acetate	100%	150ºF	A	A	A	B	
Amyl Alcohol		70ºF	A	A	B	B	
Amyl Alcohol		150ºF	A	A		B	
Aniline		100ºF	A	A		B	B
Aniline Hydrochloride		150ºF				B	B
Aqualum (Altivia)		120ºF	LR	LR	A	B	
Aqua regia		70ºF	NR			NR	NR
Aqueous Ammonium Chloride17% & 4% MeOH		147ºF	A				
Arquad 2HT (Armour®) 75% Active		167ºF	A				
Arquad and Isopropyl Alcohol		158ºF	A				
Ascorbic Acid	10%	150ºF	A	A			
Arsenic Acid	50%	70ºF	LR				NR
Aviation Fuel		70ºF	A	A	A	B	
Boric Acid	100%	210ºF	B	A		B	B
Brake Fluid HD557		150ºF	A				
Brass Plating		150ºF					NR
Brine	6.7%	290ºF	A			B	B
Brine	12.3%	203ºF	A			B	B
Brine	12.3%	250ºF	A			B	B
Brine	29.2%	100ºF	A			B	B
Bromine	100ppm		B	B		B	
Bronze Plating		150ºF					NR
Butadiene		70°F	A			B	B

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Butadiene		150ºF	A			B	B
Butane		70ºF	A	A	A	B	B
Butane		150ºF	A	A	A	B	B
Butene		70ºF	A	A		B	
Butyl Acetate		70ºF	A	A	NR	B	NR
Butyl Acrylate		70ºF	A			B	
Butyl Alcohol	100%	150ºF	A	A	B	B	B
Butyl Cellosolve (Glycol Ether EB)		100ºF	A			B	
Butyl Phenol		210ºF	A				
Butylene		70ºF	A			B	B
1,3-Butylene Glycol		100ºF	A			B	
Butylene Oxide		100ºF	A				
Butyraldehyde	98%	70ºF	A			B	
Butyraldehyde	98%	150ºF	A			B	
Butyric Acid		70ºF	A				
Butyrolactone		70ºF	A	A		B	
Cadmium Cyanide		150ºF					B
Calcium Bisulfate		70ºF				B	B
Calcium Bisulfite		70ºF				B	B
Calcium Bromide	100%	150ºF	A	A	A	B	B
Calcium Carbonate	10%	150ºF	A	A		B	B
Calcium Carbonate	20%	200ºF	A				
Calcium Carbonate	100%	70ºF	A			B	B
Calcium Chloride	50%	70ºF	A	A		B	B
Calcium Chloride	70%	280ºF	A	A		B	B
Calcium Chloride	100%	150ºF	A	A		B	B
Calcium Cyanamide		70ºF	A			B	B
Calcium Cyanide		70ºF				B	B
Calcium Fluoride	25%	150ºF	A			B	
Calcium Hydroxide	50%	150ºF	A			B	B
Calcium Hypochlorite	30ppm	100ºF	A			NR	NR
Calcium Hypochlorite	5%	70ºF	NR			NR	NR
Calcium Lignosulfate	100%	150ºF	A		B		
Calcium Lignosulfate	100%	180ºF	A		NR		
Calcium Nitrate		150ºF				B	B
Calcium Sulfate		150ºF				B	B
Caprylic Acid	100%	70ºF	A	A	A	B	B
Caprylic Acid	100%	150ºF	A	A	B	B	
Caramel Color	100%	100ºF	A	A	A	B	B
Carbon Bisulfide		100ºF	A	A	A	B	NR
Carbon Dioxide		70ºF	A	A		B	B

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Carbon Monoxide		70ºF	A			B	B
Carbon Tetrachloride		70ºF	A	A		B	NR
Carmel		100ºF	A	A			
Casein		70ºF	A			B	B
Cashew Nut Oil		70ºF	A	A		B	B
Castor Oil		70ºF	A			B	B
CAT ® ELC (Extended Life Coolant) Concentrate CATEC-1	100%	70ºF				A	
Caustic Lime (Dehydrated)		150ºF				B	B
Caustic Potassium (Dehydrated)		150ºF				B	B
Cellosolve (Ethyleneglycol Ethylether)		100ºF	A	A		B	NR
Cherry Soda (Concentrate)		70ºF	A				
Chloric Acid	30%	100ºF	A		NR		
Chlorine, Fumes	100ppm	100ºF	B			B	LR
Chlorine, Water	0.40%	70ºF	B			B	LR
Chloral		150ºF	A				NR
Chloroaniline		70ºF	A				
Chlorobenzene (Anhydrous)		100ºF	A				
Chlorobenzene	10%	220ºF		A			
Chloroform	100%	70ºF	A	A		B	NR
Chloroform	100%	144ºF	A	A		B	NR
Chloropicrin		100ºF	A			B	B
Chlorosulfonic Acid	100%	70ºF	B	NR	NR		
Chlorotoluene		194ºF		A			
Chlorowax		100ºF	A				
Chlorox ® (See also Sodium Hypochlorite)	100%	70ºF	NR	NR	NR	NR	NR
Chocolate Syrup		70ºF	A			B	
Choline Chloride	70%	150ºF	A	A	A	B	NR
Chrome Plating Bath		150ºF					NR
Chromic Acid	10%	70ºF	B			B	B
Chromic Acid	20%	100ºF	A				
Chromic Acid	30%	70ºF	B			B	NR
Chromic Acid	50%	70ºF	B			B	NR
Citric Acid	25%	150ºF	LR	LR		B	B
Citric Acid	50%	70ºF	LR	LR		B	B
Citric Acid	50%	150ºF	LR	LR		B	B
Coal Tar		150ºF	A			B	NR
Cobalt Sulfate Solution	pH 6.0	170ºF	A				
Coca Cola Concentrate		70ºF	A	A	A		
Coconut Oil	100%	70ºF	A	A		B	B
Coconut Oil	100%	180ºF	A	A		B	B
Coke Oven Gas		150ºF	A	A		B	

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Collodion Solution		70ºF	A	A			NR
Copper Acetate	50%	70ºF	A			B	
Copper Chloride		70ºF	A			B	B
Copper Cyanide		70ºF	A			B	B
Copper Nitrate		70ºF				B	B
Copper Plating Solution		150ºF				B	B
Copper Sulfate	10%	100ºF	LR	A	B	B	B
Copper Sulfate	10%	120ºF	LR	A	B	B	B
Copper Sulfate	10%	150ºF	LR	B	B	B	B
Copper Sulfate	20%	100ºF	LR	A	A	B	B
Copper Sulfate	20%	120ºF	LR	A	A	B	B
Copper Sulfate	50%	100ºF	LR			B	B
Copper Sulfate	50%	150ºF	LR			B	B
Copper Sulfate (Anhydrous)	100%	140ºF	A	A			
Corn Mash		100ºF	A	A		B	B
Corn Oil (Mazola®)		70ºF	A			B	B
Corn Oil		180ºF	A			B	B
Corn Syrup	100%	70ºF	A	A	A	B	
Corn Syrup	100%	150ºF	A	A	A	B	
Cottonseed Oil		150ºF	A			B	B
Creosote		150ºF	A	A		B	NR
Cresol	100%	150ºF	A	A		B	NR
Crotonaldehyde	100%	70ºF	A			B	
Crude Oil		150ºF	A			B	B
Crude Oil @ 650PSI		200ºF	A			B	
Cyanide Cadmium Bath		100ºF				B	B
Cyanide Plating		100ºF				B	B
Cyanide Zinc		100ºF				B	B
Cyclobutane		55ºF	A			B	B
Cyclohexane		70ºF	A			B	B
Cyclohexanone		100ºF	A			B	NR
Cyclohexene		70ºF	A			B	B
Cyclopropane		70ºF	A			B	B
Dawn® Dish Soap	100%	150ºF	A				
Decon-Clean®	100%	70ºF				A	B
Decon-Quat®	100%	70ºF				A	B
Decyl Alcohol		70ºF	A			B	B
Dextrose		150ºF	A	A		B	B
Diacetone Alcohol	100%	70ºF	A	A	A	B	B
Diacetone Alcohol	100%	100ºF	A	A	A	B	B
Diacetone Alcohol	100%	120ºF	A	A	A	B	B

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Diacetone Alcohol	100%	131ºF	A	A	A	B	B
Diallyl Amine		70ºF	A				
Dibutyl Maleate		70ºF		A			
Dibutylphthalate		70ºF	A			B	
Dichloroacetic Acid	25%	70ºF		A			
O-Dichlorobenzene		100ºF	A			B	
Diesel Fuel	100%	60ºF	A	A	A	B	B
Diesel Fuel	100%	120ºF	A	A	A	B	B
Diethanolamine	100%	125ºF	A				
Diethanolamine	100%	150ºF	LR				
Diethanolamine	100%	350ºF	NR				
Diethyl Phthalate	100%	176ºF	A				
Diethyl Sulfate		100ºF	A				
Diethylene Glycol	50%	70ºF	A			B	
Diethylene Glycol	100%	100ºF	A			B	
Diethylene Glycol Monobutyl Ether (Glycol Ether DB)		100ºF	A			B	
Diethylenetriamine		70ºF	A	A			
Difluorophosphoric Acid		70ºF	NR				
Dihydrogenated Tallow Dimethylammonium Chloride		167ºF	A				
Dimethyl Ethanolamine (tech grade)		70ºF	A				
Dimethyl Phthalate		70ºF	A			B	B
Dimethyl Propane		70ºF	A			B	
Dimethyl Sulfoxide (DMSO)		70ºF	A				
Dimethyl Sulfoxide (DMSO)		302ºF	NR				
Dimethylamine		100ºF	A				NR
Dimethylamine (Anhydrous)		100ºF	A				NR
Dimethylformamide		70ºF	A				
Dioctyl Adipate		100ºF	A				
Dioctyl Phthlate Monomeric		100ºF	A	A			
Dioctyl Phthlate Monomeric		140ºF	A	A			
Diphenol Amine		150ºF	A				
Dipropylene Glycol	5%	100ºF	A	A		B	
Dipropylene Glycol	100%	150ºF	A	A		B	
Dipropylene Glycol Monomethyl ether (DPM)		100ºF	A	A		B	
Disodium Phosphate	5%	70ºF	A	A			B
Dodecylbenzene Sulfonate		125ºF	A			B	B
Dodecylbenzene Sulfonate (Anhydrous)		125ºF	A				
Dolchem®	100%	150ºF	A				
Dow® heavy duty oven cleaner	100%	70ºF	LR	NR	A		
Dow® heavy duty oven cleaner	100%	100ºF	NR	NR	B		
Dowtherm		70ºF				B	B

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Emulsion asphalt	100%	70ºF					NR
Epichlorohydrin		100ºF	A				
Ethane	100%	70ºF	A	A		B	B
Ethanol Amine		70ºF		A			
Ethyl Acetate	100%	100ºF	A	A	A	B	NR
Ethyl Acetate	100%	120ºF	A	A	A	B	NR
Ethyl Acetate	100%	150ºF	A	A	A	B	NR
Ethyl Acetate	100%	171ºF	A	A		B	NR
Ethyl Acetoacetate		70ºF	A	A			
Ethyl Acrylate		70ºF	A			B	
Ethyl Alcohol (Ethanol)	50%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	50%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	77%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	95%	70ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	150ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	97%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	100%	173ºF	A	A		B	B
Ethyl Amide	70%	70ºF	A				NR
Ethyl Amide (Anhydrous)	100%	70ºF	A				NR
Ethyl Chloride	100%	70ºF	A	A		B	
Ethyl Chloride	100%	150ºF	A	A		B	
Ethyl Ether (fumes)		70ºF	A			B	NR
Ethyl Ether (fumes)		94ºF	A			B	NR
2-Ethyl Hexacrylate		100ºF	A			B	B
2-Ethyl Hexenol		100ºF	A			B	
Ethyl Silicate Conc.		100ºF	A				
Ethylene Bromide	100%	176ºF	A			B	
Ethylene Chloride		100ºF	A	A		B	
Ethylene Chlorohydrin		100ºF	A	A		B	
Ethylene Chlorohydrin	100%	194ºF		A			
Ethylenediamine		70ºF	A	A			
Ethylenediaminetetracetic Acid (EDTA)	40%	70ºF	A				
Ethylene Dichloride		100ºF	A			B	
Ethylene Glycol	100%	70ºF	A	A	A	B	B
Ethylene Glycol	100%	120ºF	A	A	A	B	B
Ethylene Glycol	100%	150ºF	A	A		B	B
Ethylene Glycol Monomethyl Ether Acetate		100ºF	A			B	
Ethylene Oxide		100ºF	A				NR
Fatty Acid (Coconut)		180ºF	A			B	B
Fatty Acid (Cotton)		180ºF	A			B	B

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Fatty Acid (Oleic)		180ºF	A			B	B
Fatty Acid (Soya)		180ºF	A			B	B
Ferric Ammonium Citrate Solution		100ºF	A				
Ferric Chloride	10%	150ºF	A	A	A	B	B
Ferric Chloride	50%	70ºF	A	A	A	B	B
Ferric Chloride	50%	150ºF	A	A	A	B	B
Ferric Nitrate		150ºF				B	B
Ferric Sulfate		150ºF	A				B
Ferrous Sulfate	10%	150ºF	A	A		B	B
Ferrous Sulfate	25%	150ºF				B	B
Ferrous Sulfide	10%	150ºF	A	A			
Ferrous Sulfate/Hydrochloric Acid 50%/20%		100ºF	B				
Finesse® Shampoo	100%	150ºF	A	A	A		
Fish Oil		180ºF	A			B	B
Floorstar® TFRII	Conc.	150ºF	NR	NR	NR		
Fluosilic Acid		150ºF					NR
Formaldehyde	0.17%	150ºF	A			B	B
Formaldehyde & Methyl Alcohol (37%-7%)		70ºF	A	A	A	B	B
Formaldehyde & Methyl Alcohol (37%-7%)		150ºF	A	A	B	B	B
Formaldehyde (unstabalized)	44%	130ºF	A			B	B
Formaldehyde	50%	150ºF	A		B	B	B
Formic Acid	10%	70ºF	LR	LR		B	NR
Formic Acid	10%	150ºF	LR				NR
Formic Acid	90%	100ºF	NR				NR
Formic Acid	100%	70ºF	B			B	NR
Formic Acid	100%	125ºF	NR				NR
Freon		100ºF	A	A		B	NR
Fruit Juice		100ºF	A	A		B	B
Fuel Oil		100ºF	A	A		B	B
Fumaric Acid	10%	212ºF	A	A			
Furan		90ºF	A			B	
Furfuryl Alcohol		70ºF	A	A	A	B	
Furfurylamine		70ºF	A				
Gallic Acid		100ºF				B	B
Gasoline, Aviation		70ºF	A	A	A	B	B
Gasoline, Leaded		100ºF	A	A	A	B	B
Gasoline, Unleaded	100%	70ºF	A	A	A	B	B
Gasoline, Unleaded	100%	150ºF	A	A	A	B	B
Gasoline, White		70ºF	A	A	A	B	B
Gelatin		100ºF	A	A		B	B
Gluconic Acid	50%	100ºF	A				

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Glucose		70ºF	A			B	B
Glycidyl Phenylether		70ºF	A			B	
Glycerine		70ºF	A			B	B
Glycerine		200ºF	A			B	B
Glycolic Acid (Hydroxyacetic Acid)	70%	140ºF	A				
Glycols	30%	70ºF	A			B	B
Green Liquor		150ºF	LR			B	B
Heptane		100ºF	A	A		B	B
Heptanoic Acid		70ºF	A				
Hevea® Latex Type k5		70ºF	A			B	B
Hexane		150ºF	A	A			B
Hexane		350ºF	A	A			
1,6-Hexandiol		150ºF	A	A	A	B	B
Hexametaphosphate		100ºF	A				
Hexamethylenetetramine		150ºF	A	A	B		NR
Hilex® Bleach (See Sodium Hypochlorite)		70ºF	NR			NR	NR
Hydraulic Fluid (Houghtosafe 1120)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 56/60)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 620)		140ºF	A			B	
Hydraulic Fluid (skybtul)		50ºF	A			B	
Hydraulic Fluid (skybtul)		150ºF	A			B	
Hydrazine		100ºF	B			NR	
Hydrobromic Acid	2½%	70ºF	B	B	B	B	NR
Hydrobromic Acid	5%	70ºF	B	B	B	B	NR
Hydrobromic Acid	10%	150ºF	B	B	B	B	NR
Hydrobromic Acid	12½%	70ºF	B	B	LR	B	NR
Hydrobromic Acid	15%	70ºF	NR	LR	LR	B	NR
Hydrobromic Acid	20%	70ºF	NR				NR
Hydrobromic Acid	25%	70ºF	NR				NR
Hydrobromic Acid	30%	150ºF	NR			NR	NR
Hydrobromic Acid	48%	150ºF	NR	NR	NR	NR	NR
Hydrochloric Acid	2½%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	5%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	10%	70ºF	B	B		B	B
Hydrochloric Acid	10%	100ºF	B	B	B	B	B
Hydrochloric Acid	10%	150ºF	NR				B
Hydrochloric Acid	12½%	70ºF				B	B
Hydrochloric Acid	15%	70ºF				B	B
Hydrochloric Acid	20%	70ºF	B			B	B
Hydrochloric Acid	20%	100ºF	B			B	B
Hydrochloric Acid	20%	185ºF	NR				NR

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Hydrochloric Acid	30%	100ºF	B			NR	B
Hydrochloric Acid	30%	150ºF	NR				NR
Hydrochloric Acid	37%	70ºF					NR
Hydrochloric Acid	37%	150ºF	NR		NR		NR
Hydrocyanic Acid		100ºF					B
Hydrofluoric Acid	2%	70ºF				B	
Hydrofluoric Acid	10%	70ºF	NR				NR
Hydrofluoric, Vapors		212ºF	NR				NR
Hydrofluorosilic Acid	29%	100ºF	B				NR
Hydrogen Gas		70ºF	A	A		B	B
Hydrogen Gas		350ºF		A			
Hydrogen Peroxide	1%	70ºF				B	
Hydrogen Peroxide	30%	374ºF		B		NR	NR
Hydrogen Peroxide	90%	150ºF	NR	NR		NR	NR
Hydrogen Sulfide	3%	70ºF	A		NR	B	B
Hydrogen Sulfide	5%	210ºF	A		NR		
Hydroquinone		70ºF	A				
Hydroxyacetic Acid		77ºF	A	A			
Hydroxyacetic Acid		100ºF	A				
Hypochloric Acid		70ºF	NR			NR	NR
Hyposulfite		100ºF				B	B
Ink		100ºF	A	A		B	B
Insecticide Bidrin 8 (Amvac)	Conc.	70ºF	A		A		
Insecticide CDMAA (Amvac)	Conc.	70ºF	A	A	A		
Insecticide Naled (Amvac)	Conc.	70ºF	A	A	NR		
Insecticide Nifs T (Monsanto)		100ºF	A				
Iodine		75ºF	A			B	
Iron Pickle Liquor		150ºF				B	B
Iron Sulfate		100ºF	A	A		B	B
Iso-par (Isoparaffinic material)		140ºF	A				
Isobutane		70ºF	A			B	B
Isobutylaldehyde		70ºF	A			B	
Isobutyl Alcohol		70ºF	A			B	B
Isobutyl Alcohol/Formaldehyde 60%/40%		100ºF	A				
Isooctyl Alcohol		70ºF	A			B	B
Isophorone		70ºF	A			B	
Isopropyl Alcohol		70ºF	A	A		B	B
Isopropyl Alcohol		150ºF	A	A	A	B	B
Isopropyl Acetate		70ºF	A	A		B	
Isopropyl Acetate		200ºF	A	A			
Jet Fuel		70ºF	A	A		B	B

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Jet Fuel		100ºF	A	A		B	B
Jet Fuel JP-5		120ºF	A	A		B	B
Joy® Dish Soap		150ºF	A		A		
Kaboom®		120ºF	LR	LR	A	B	
Karo Syrup		70ºF	A	A	A	B	B
Kelvar		140ºF	A				
Kerosene		100ºF	A	A		B	B
Kopper Star Distillate		140ºF	A				
Lacquor		100ºF	A			B	NR
Lacquor Solvent		100ºF	A			B	NR
Lactic Acid	10%	140ºF	LR	LR		B	B
Lactic Acid	22%	100ºF	A				
Lactic Acid	100%	100ºF	A	A		B	B
Lanoline® Lotion Shampoo Concentrate		70ºF	A				
Lard		70ºF	A				
Latex		100ºF	A			B	B
Latex #512K (Dow®)		70ºF	A			B	B
Latex GR-S Type 3		77ºF	A	A		B	B
Latex Rubber		70ºF	A			B	B
Leachate Solution (Sour Water)		150ºF					
Lead Acetate	10%	150ºF	A	A		B	
Levulinic Acid		77ºF	A				
Lignin Sulfate		100ºF	A				
Lime (Chopped)		100ºF	A				
Linoleic Acid		100ºF	A			B	B
Lithium Chloride		70ºF	LR			B	B
LP Gas		100ºF	A	A		B	
LpHst (Steris product)	100%	70ºF				A	
LpHst (Steris product)	0.01%	70ºF				A	
Lube Oil (Pennzoil 10W30)		150ºF	A	A	A	B	B
Lubricating Oil		70ºF	A	A	A	B	B
Lubricating Oil		182ºF	A	A		B	B
Lysol®		70ºF	A				
Magnesium Carbonate		150ºF	A			B	B
Magnesium Chlorate		150ºF				B	B
Magnesium Chloride	40%	100ºF	A	A		B	B
Magnesium Chloride	5%	70ºF				A	
Magnesium Chloride	50%	70ºF	A			B	B
Magnesium Hydroxide Slurry		150ºF	A		A	B	B
Magnesium Nitrate		150ºF				B	B
Magnesium Oxide	20%	70ºF	A			B	B

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Magnesium Sulfate		100ºF	A			B	B
Magnesium Sulfate		150ºF	A			B	B
Maleic Acid	50%	70ºF	A			B	B
Maleic Anhydride		100ºF	A				
Maleic Anhydride		250ºF	A				
Malic Acid		100ºF	LR			B	B
Manganese Ammonium Sulfate		100ºF				B	B
Manganese Chloride		100ºF	A	A		B	B
Manganese Sulfate		150ºF	A			B	B
Martan B® liquid (Marathon Oil)		100ºF	A				
Mayonnaise		150ºF	A		A		
MEK Peroxide (45% in Dimethyl Phthalate)		70ºF	A	B	NR	B	NR
Melamine		70ºF	NR	NR			
Melamine Resin Solution		100ºF	A			B	B
Mercuric Chloride		100ºF	A	A		B	B
Methyl Acetate	96%	100ºF	A			B	NR
Methyl Acrylate		100ºF	A	A		B	
Methyl Alcohol	100%	70ºF	A	A	A	B	B
Methyl Alcohol	100%	120ºF	A	A	A	B	B
Methyl Alcohol	100%	148ºF	A	A	B	B	B
Methyl Butane		100ºF	A			B	B
Methyl Cellosolve (Glycol EM)		70ºF	A	A	B	B	
Methyl Cellosolve (Glycol EM)		120ºF	A	A	B	B	NR
Methyl Chloride		100ºF	A			B	NR
Methyl Chloride		150ºF	A			B	NR
Methyl Ether		50ºF	A			B	NR
Methyl Ethyl Ketone	100%	100ºF	A	A	B	B	NR
Methyl Ethyl Ketone	100%	150ºF	A	A		B	NR
Methyl Fluoride		150ºF	A			B	NR
Methyl Isobutyl Carbinol		70ºF	A			B	
Methyl Isobutyl Ketone (MIBK)		70ºF	A	A		B	NR
Methyl Mercaptan		70ºF	A				
Methyl Methacrylate		100ºF	A	A	NR	B	
Methyl Propane		70ºF	A			B	B
Methylene Bromide		100ºF	A	A			
Methylene Chloride	100%	77ºF	A	A		B	NR
Methylene Chloride	100%	100ºF	A	A		B	NR
Methylene Chloride	100%	113ºF	A	A		B	NR
Methylene Chlorobromide		70ºF	A			B	NR
Methylene Diisocyanate		100ºF	A				
n-Methylpyrolidone	100%	275ºF	A			B	

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Milk (condensed)		70ºF	A			B	B
Milk (whey)		150ºF	A			B	B
Mineral Oil		70ºF	A	A		B	B
Mineral Spirits		150ºF	A	A	A	B	B
Molasses	100%	70ºF	A	A		B	B
Molasses		110ºF	A	A		B	B
Monochloroacetic Acid		100ºF	A				
Monochloropinacolone (MCP)		75ºF	A				
Monochloropinacolone (MCP)		100ºF	A				
Monoethanolamine		100ºF	NR				NR
Monofluorophosphoric Acid		70ºF	B	B			NR
Morpholine		150ºF	A				
Mustard		150ºF	A		NR		
Nalco ® 2000 / Nalcool 2000 / Nalfleet 2000	100%	70ºF				A	
Naphthalene (sulfonated)		150ºF	A			B	B
Naphtha		150ºF	A	A	A	B	B
Naphthenic Acid		100ºF	A	A		B	B
Naphthenic Acid	95%	180ºF	A	A			
1-Naphthol-4-Sulfonic Acid	7.5-8.0pH	158ºF	A			B	B
Natural Gas		100ºF	A			B	B
Neatsfoot Oil		150ºF	A	A		B	B
Neatsfoot Oil		250ºF	A	A		B	B
Nickel Acetate	50%	70ºF	A			B	B
Nickel Chloride	50%	70ºF	A			B	B
Nickel Nitrate		150ºF				B	B
Nickel Plating Solution (electroless)		212ºF	B	A			
Nickel Plating Solution		374ºF	B		B	B	B
Nickel Salts		150ºF				B	B
Nickel Sulfate		150ºF				B	B
Nitric Acid	1%	70ºF	LR	A	B	B	NR
Nitric Acid	2%	185ºF	LR		B		NR
Nitric Acid	5%	70ºF	LR	LR	LR	B	
Nitric Acid	5%	120ºF	LR	B	B		NR
Nitric Acid	10%	100ºF			NR	B	NR
Nitric Acid	10%	140ºF	NR	NR	NR	B	NR
Nitric Acid	10%	150ºF	NR	NR	NR	B	NR
Nitric Acid	10%	185ºF	NR	NR	NR		NR
Nitric Acid	15%	150ºF	NR	NR	NR		NR
Nitric Acid	25%	70ºF	B			B	NR
Nitric Acid	25%	100ºF	NR	NR	NR		NR
Nitric Acid	25%	150ºF	NR	NR	NR		NR

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Nitric Acid	50%	100ºF	NR	NR	NR		NR
Nitric Acid	70%	100ºF	NR	NR	NR		NR
Nitrobenzene		100ºF	A	A		B	NR
Nitrobenzenesulfonic Acid		100ºF	A	A			
o-Nitrochlorobenzene		180ºF	A			B	
p-Nitrochlorobenzene		100ºF	A			B	B
Nitrogen		100ºF	A	A		B	B
Nitrogen		300ºF	A	A			
Nitrophenol		250ºF	A	A	NR	B	NR
1-Nitropropane		70ºF	A			B	B
Nonylphenol		100ºF	A			B	
Nonylphenol		180ºF	A			B	
n-Octyl Alcohol		70ºF	A			B	B
Nu-Calgon Evap Pow'r-C	100%	70ºF				A	LR
Nu-Calgon Evap-Green	100%	70ºF				A	LR
Nu-Calgon Green Clean	100%	70ºF				A	LR
Nu-Calgon Cal-Green	100%	70ºF				A	LR
Nu-Calgon Tri-Pow'r HD	100%	70ºF				A	LR
Nu-Calgon TriClean 2x	100%	70ºF				A	LR
Nu-Calgon Nu-Solve NR	100%	70ºF				A	LR
p-t-Octyl Phenol		250ºF	A				
Oil, Cutting		140ºF	A			B	B
Oil, water soluble		70ºF	A			B	
Oleic Acid		70ºF	A			B	B
Oleic Acid		250ºF	A				
Oleomargarine		70ºF	A				
Oleum		100ºF	B				NR
Olive Oil		70ºF	A			B	B
Orange Concentrate		70ºF	A			B	
Orange Soda Concentrate		70ºF	A			B	
Oxalic Acid		70ºF	A			B	B
Oxalic Acid		160ºF	A			B	
Oxygen		70ºF	A	A		B	B
Ozone			NR	NR		NR	
Palm Oil		70ºF	A	A		B	B
Palm Oil		150ºF	A	A		B	B
Palm Oil (Crude)		250ºF	A	A		B	NR
Palmitic Acid		200ºF	A			B	B
Palmolive® Dish soap		150ºF	A				
Paraformaldehyde	50%	150ºF	A			B	
Paraldehyde		70ºF	A			B	

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Peanut Butter		70ºF	A	A			
Peanut Oil		70ºF	A				
1,3-Pentadiene		100ºF	A			B	B
Pepper		70ºF	A			B	
Pepperoni						NR	
Perchloric Acid	20%	70ºF		B			NR
Perchloroethylene		200ºF	A			B	NR
Phenol	3%	70ºF	A			B	NR
Phenol	5%	150ºF	A				
Phenol	50%	150ºF	A	A			
Phenol	90%	100ºF	A	A			NR
Phenol	90%	150ºF	A	A			NR
Phenol	100%	150ºF	A	A			NR
Phenylenediamine	50%	70ºF	A				
Phenylhydrazine		70ºF	B				
1-Phenyl-2-methyl-1,2-propanediamine		70ºF	A				
Phosphoric Acid	10%	70ºF	B		B	B	B
Phosphoric Acid	10%	150ºF	B	B		B	B
Phosphoric Acid	25%	100ºF	B	B	B		
Phosphoric Acid	25%	150ºF	B	B			
Phosphoric Acid	50%	150ºF	NR	NR			
Phosphoric Acid	75%	100ºF			B		
Phosphoric Acid	75%	150ºF	NR	NR			
Phosphoric Acid	85%	70ºF	B			B	B
Phosphorus Oxychloride		70ºF	A				
Phosphorus Trichloride		70ºF	A				NR
Phthalic Acid	90%	70ºF	A				
Phthalic Anhydride	80%	70ºF	A				
Phthalic Anhydride, Concentrated (Mother Liquor)		100ºF	A				
Phthalic Anhydride, molten		347ºF	A				
Pickling Acid, sulfuric		150ºF				B	B
Picric Acid		70ºF				B	B
Pine Oil		70ºF	A	A	A	B	B
Pine Oil		100ºF	A	A	A	B	B
Polyaluminum Chloride		70ºF	A				
Polyethylate Nonylphenol	70%	100ºF	A			B	
Polyethylene Glycol		100ºF	A			B	
Polyols		100ºF	A				
Polyvinyl Acetate Emulsion		70ºF	A	A		B	
Polyvinyl Chloride Pellets		70ºF					
Potassium Acetate	25%	150ºF	A	A	A	B	B

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Potassium Bicarbonate		150ºF				B	B
Potassium Bisulfate		100ºF				B	B
Potassium Bromate	7%	70ºF	A	NR	A	B	NR
Potassium Bromate	7%	150ºF	B	NR	A	B	NR
Potassium Bromide	10%	150ºF	A	A	A	B	B
Potassium Bromide	100%	70ºF	A			B	B
Potassium Carbonate	10%	150ºF	B	B		B	B
Potassium Chloride	10%	70ºF	A	A	A	B	B
Potassium Chloride	10%	150ºF	A	A	A	B	B
Potassium Chloride	25%	150ºF	A	A	A	B	B
Potassium Chloride	100%	70ºF	A			B	B
Potassium Chromate	10%	150ºF	A	A		B	
Potassium Cuprocyanide		100ºF				B	B
Potassium Cyanate		150ºF				B	B
Potassium Dichromate	10%	150ºF	A	A		B	B
Potassium Ferricyanide	25%	150ºF	A	A		B	B
Potassium Ferrocyanide		70ºF	A			B	B
Potassium Fluoride		70ºF	A			B	B
Potassium Hydroxide	10%	100ºF	NR			NR	NR
Potassium Hydroxide	10%	150ºF	NR				
Potassium Hydroxide	50%	70ºF	NR	NR		B	NR
Potassium Hydroxide	50%	150ºF	NR	NR		NR	NR
Potassium Hypochlorite		100ºF	NR			NR	NR
Potassium Iodide	25%	150ºF	A	A	B	B	B
Potassium Nitrate	50%	70ºF	A			B	B
Potassium Nitrite		150ºF					B
Potassium Oleate		150ºF	A				
Potassium Permanganate		70ºF	B			B	B
Potassium Persulfate		150ºF				B	B
Potassium Phosphate		100ºF	A			B	B
Potassium Sulfate		150ºF	A			B	B
Potassium Sulfide		150ºF				B	B
Potassium Thiosulfate		100ºF				B	B
Propane		100ºF	A	A		B	B
Proprionaldehyde		70ºF	A			B	
Proprionic Acid		70ºF	LR				
n-Propyl Acetate		70ºF	A	A		B	
n-Propyl Alcohol	100%	70ºF	A	A		B	B
n-Propyl Alcohol		100ºF	A	A		B	B
n-Propyl Alcohol		150ºF	A	A		B	B
Propylene		100ºF	A			B	B

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Propylene Glycol		100ºF	A	A		B	
Propylene Glycol Monomethyl Ether (PM)		150ºF	A	A	NR	B	
Propylene Oxide		70ºF	A				
Propylenediamine		70ºF	A				NR
Pro-Red +	10%	70ºF				NR	
Prune Juice		100ºF	A			B	B
Pyridine		100ºF	A			B	
Pyrogallic Acid		70ºF				B	B
Quaternary Ammonium Chlorides		100ºF	A				
Rapeseed Oil		70ºF	A	A		B	B
Rocadyna (PVP)		150ºF	A		NR		
Rochelle Salts		100ºF	A			B	B
Rosin (wood)		388ºF	A			B	B
Rubber Latex		77ºF	A			B	
Sake Wine		100ºF	A	A		B	
Salicylic Acid	10%	150ºF	A	A		B	B
Salomi		70ºF				NR	
Saturated Lime & Calcium		374ºF		NR			
Sauve® shampoo	100%	70ºF	A				
Scale Gone 70 (MEC Corporation)	17%	150ºF	A	A			
Silicic Acid		100ºF				B	B
Silver Nitrate	20%	150ºF	A	A	B	B	B
Silver Plating Solution		150ºF				B	B
Sodium Acetate	25%	70ºF	A	A	A	B	B
Sodium Acetate	25%	150ºF	A	A	A	B	B
Sodium Acetate	50%	150ºF	A	A	A	B	B
Sodium Aluminate		100ºF				B	B
Sodium Bicarbonate		150ºF	B			B	B
Sodium Bisulfate	10%	150ºF	A			B	B
Sodium Bisulfate	25%	150ºF	A	NR		B	B
Sodium Bisulfide		100ºF				B	B
Sodium Bisulfite	25%	150ºF	A	A		B	B
Sodium Borate		100ºF	A			B	B
Sodium Bromide		150ºF	A			B	B
Sodium Carbonate	10%	176ºF	A	B	A	B	B
Sodium Carbonate	15%	185ºF	A		A		
Sodium Carbonate	20%	140ºF	A			B	B
Sodium Carbonate	50%	70ºF	A			B	B
Sodium Carbonate	99%	100ºF	A			B	B
Sodium Chlorate	46%	120ºF	NR	NR	A		
Sodium Chlorate	50%	70ºF	A	LR	A	B	B

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Sodium Chlorate	50%	120ºF	LR	LR	A		
Sodium Chloride	5%	70ºF				A	
Sodium Chloride	5%	150ºF	A	A		B	B
Sodium Chloride	20%	77ºF	A	A		B	B
Sodium Chloride	20%	200ºF	A				
Sodium Chloride	40%	200ºF	A			B	B
Sodium Chlorite		100ºF	B			B	B
Sodium Chlorite	25%	120ºF	NR	NR	NR	NR	NR
Sodium Chromate	50%	70ºF	A			B	B
Sodium Cyanide	20%	100ºF	B			B	B
Sodium Dichromate		100ºF	B			B	B
Sodium Ferricyanide		100ºF				B	B
Sodium Fluoride	25%	122ºF	A	A		B	NR
Sodium Fluoride	25%	150ºF	A	A		B	NR
Sodium Formate	22%	180ºF	A			B	
Sodium Formate	48%	150ºF	A				
Sodium Formate	50%	250ºF				B	
Sodium Hydrosulfide (Sodium Bisulfide)		100ºF				B	B
Sodium Hydroxide	½%	176ºF	A	B	A		NR
Sodium Hydroxide	1%	100ºF			A	NR	NR
Sodium Hydroxide	2%	77ºF		B	A	B	NR
Sodium Hydroxide	2%	176ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	8%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	70ºF	NR	NR		B	NR
Sodium Hydroxide	10%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	120ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	150ºF	NR	NR		NR	NR
Sodium Hydroxide	10%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	20%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	20%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	25%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	28%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	30%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	50%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	73%	160ºF	NR	NR	B	NR	NR

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Sodium Hydroxide	73%	250ºF	NR	NR		NR	NR
Sodium Hydroxide	75%	150ºF	NR	NR		NR	NR
Sodium Hypochlorite (Bleach)	5%	70ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	100ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	140ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite (Bleach)	5½%	150ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	12½%	70ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	15%	70ºF	NR	NR		NR	
Sodium Hypophosphite	5%	70ºF	A				
Sodium Metaphosphate	5%	70ºF	A				
Sodium Metaphosphate	12½%	100ºF	A				
Sodium Nitrate		100ºF	A			B	B
Sodium Nitrite		150ºF				B	B
Sodium Oleate		100ºF	A			B	B
Sodium Permanganate		150ºF				B	B
Sodium Peroxide		100ºF	B			B	B
Sodium Phosphate	50%	70ºF	B			B	B
Sodium Polyacrylate		70ºF	A				
Sodium Propionate	20%	70ºF	A			B	
Sodium Silicate		150ºF	A			B	B
Sodium Sulfate	10%	150ºF	A	A	A	B	B
Sodium Sulfate	25%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	200ºF	A	A	A	B	B
Sodium Sulfate Nickle Pickling Solution		150ºF				B	B
Sodium Sulfhydrate		100ºF	A				
Sodium Sulfite	10%	150ºF	A	A	A	B	B
Sodium Sulfite	10%	180ºF	A	A	A	B	B
Sodium Sulfite	25%	150ºF	A	A	A	B	B
Sodium Thiocyanate	10%	70ºF	LR				
Sodium Thiocyanate	50%	70ºF	LR				
Sodium Thiosulfate	10%	150ºF	A	A	A	B	B
Sodium Thiosulfate	30%	100ºF	A	A	A	B	B
Sodium Thiosulfate	30%	120ºF	A	A	A	B	B
Sodium ThioSulfate	30%	150ºF	A	A	A	B	B
Sodium Toluene Sulfonate	40%	100ºF	A				
Sodium Xylene Sulfonate		100ºF	NR				
Solo® Laundry detergent	100%	150ºF	B		NR		
Sorbitol	conc.	100ºF	A	A		B	
Soya Oil		180ºF	A			B	B
Soybean Hydrase		70ºF	A	A	A	B	

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Soybean Hydrase		150ºF	A	A	A	B	
Soysauce	100%	150ºF	A		A		
Sparkle	100%	70ºF				A	
Spor-Klenz®	1%					A	B
Spor-Klenz®	100%					A	
Stannic Chloride		100ºF	B			B	B
Stannous Chloride		100ºF				B	B
Starch		150ºF	A	A		B	B
Steam		225ºF	A	A	NR	B	NR
Steam		250ºF	A	A	NR	B	NR
Steam		290ºF	A	A	NR		NR
Stearic Acid	90%	160ºF	A	A		B	B
Stoddard Solvent		150ºF	A	A		B	B
Strawberry Preserves		70ºF	A				
Styrene		70ºF	A				
Styrene Butadiene Latex (pH 7-9)		140ºF	A	A			
Sugar Mixture		70ºF	A			B	B
Sulfamic Acid	20%	70ºF	A			B	B
Sulfamic Acid	50%	70ºF	A			B	B
Sulfur	100%	300ºF	A		B	B	NR
Sulfur Chloride		100ºF					NR
Sulfur Dioxide		150ºF	A			B	LR
Sulfur Trioxide		100ºF					NR
Sulfuric Acid	5%	70ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	100ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	120ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	150ºF	B	LR	B	B	B
Sulfuric Acid	10%	77ºF	B	NR	B	B	
Sulfuric Acid	10%	100ºF	B	NR	B		
Sulfuric Acid	10%	120ºF	B	NR	B	B	B
Sulfuric Acid	10%	150ºF	B	NR	B	B	
Sulfuric Acid	15%	185ºF	B	NR			
Sulfuric Acid	20%	70ºF	B	LR	LR	B	B
Sulfuric Acid	20%	150ºF	B	B	B	B	
Sulfuric Acid	25%	70ºF	B			B	
Sulfuric Acid	25%	100ºF	B	B		B	
Sulfuric Acid	25%	150ºF	B	B		B	
Sulfuric Acid	25%	300ºF	B	B			
Sulfuric Acid	30%	70ºF	B			B	B
Sulfuric Acid	30%	100ºF	B	B	B	B	
Sulfuric Acid	30%	150ºF	NR	NR			

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Sulfuric Acid	50%	70ºF	LR		B	B	B
Sulfuric Acid	50%	150ºF	LR			B	B
Sulfuric Acid	70%	70ºF	A			B	B
Sulfuric Acid	70%	100ºF	A			B	B
Sulfuric Acid	70%	150ºF	B	B		B	B
Sulfuric Acid	75%	70ºF	A				
Sulfuric Acid	75%	100ºF	A			B	B
Sulfuric Acid	75%	150ºF	LR			B	B
Sulfuric Acid	92%	100ºF	A				NR
Sulfuric Acid	96%	100ºF	A				
Sulfuric Acid	98%	70ºF	A	B		B	NR
Sulfuric Acid	98%	120ºF	A				NR
Sulfuric Acid	98%	150ºF	B				NR
Sulfuric Acid	98%	180ºF	NR				NR
Sulfuric Acid	100%	100ºF	LR	NR	NR		NR
Sulfuric Acid	100%	150ºF	LR	NR			NR
Sulfuric Acid/Chromic Acid 6%/5%		100ºF	NR				
Sulfuric Acid/Nitric Acid 64%/0.1%		100ºF	NR				
Sulfurous Acid	15%	200ºF	A				
Sulfurous Acid	100%	100ºF				B	NR
Surfactants		100ºF				B	B
Tall Oil		70ºF	A			B	B
Tall Oil		180ºF	A			B	B
Tallow (crude)		150ºF	A			B	B
Tannic Acid	10%	200ºF	A				
Tannic Acid	100%	100ºF	A			B	B
Tar		150ºF	A			B	B
Tartaric Acid	30%	200ºF	A				
Tartaric Acid	100%	100ºF				B	B
Tetrachloroethane		200ºF	A	A		B	NR
Tetraethylenepentamine		70ºF	A				
Tetrafluoroethylene		150ºF	A		A	B	NR
Tetrahydrofuran		70ºF	A			B	
Tetrahydrofuran		151ºF	A	A		B	
Thioglycolic Acid	97%	70ºF	A	A			
Thioglycolic Acid	97%	150ºF	LR	LR	NR		
Thiols		70ºF	A				
Tide® Laundry detergent	100%	70ºF	A				
Tide® Laundry detergent	100%	150ºF	A		NR		
Tin Immersion Dip		150ºF			NR		B
Tin Tetrachloride	50%	70ºF	A		A	B	NR

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Titanium Dioxide		100ºF	A.				
Titanium Tetrachloride		100ºF	NR	NR			
Toluene	100%	70ºF	A	A	B	B	NR
Toluene	100%	100ºF	A	A	B	B	NR
Toluene	100%	230ºF	A	A	B	B	NR
Toluene Diisocyanate (TDI)		100ºF	A	A			
Toluenesulfonamide/formaldehyde resin	100%	150ºF	A	A	A		
Tomato Paste, no salt (Hunts®)	100%	150ºF			A		
Tomato Puree (Hunts®)	100%	150ºF			A		
Toxaphene	100%	194ºF	A				
Toxaphene	100%	212ºF	A	LR			
Transformer Oil		70ºF	A				
Tributyl Phosphate		70ºF	A				
1,1,1 Trichloroethane		70ºF	A	A			
1,1,1 Trichloroethane		165ºF	A	A	B	B	NR
Trichloroethylene	100%	70ºF	A	A	A	B	NR
Trichloroethylene	100%	150ºF	A	A	A	B	NR
Trichloroethylene	100%	180ºF	A			B	NR
Tricresyl Phosphate	100%	70ºF	A	A	A	B	B
Tricresyl Phosphate	100%	100ºF	A			B	B
Tridecyl Alcohol		70ºF	A			B	B
Triethanolamine		100ºF	A				
Triethanolamine Lauryl Sulfate		100ºF	A	LR			
Triethylbenzene		150ºF	A				
Triethylene Glycol		100ºF	A				
Triethylenetetramine		100ºF	A	A			
Trifluoroacetic Acid (3M)	100%	162ºF	A	A	B	B	NR
Triphenyl Phosphite		100ºF	A	A	A	B	NR
Tripotassium Phosphate		150ºF	A	A	A	B	NR
Trisodium Phosphate	5%	140ºF	A			B	NR
Tung Oil	100%	70ºF	A	A	A	B	B
Turpentine		70ºF	A			B	B
Urea Fromaldehyde resin		100ºF	A			B	B
Urea Liquor		266ºF	A			B	B
Urea Solution	50%	100ºF	A				
Urea-Ammonium Nitrate solution		150ºF	A				
Uric Acid		70ºF	A			B	
V-8 Vegetable Juice		70ºF	A	A			
Vapam		100ºF		A			
Varnish		150ºF	A				
Vegetable Oil		100ºF	A				

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Vesphene (Steris Product)	100%	70ºF				A	
Vesphene (Steris Product)	0.01%	70ºF				A	
Vicks® Cough Syrup		70ºF	A			B	NR
Vinegar (White)		70ºF	A				
Vinyl Acetate (Clear liquid)		150ºF	A			B	B
Vinyl Chloride		70ºF	A			B	B
Vinyl Toluene		100ºF	A		A	B	B
Water, Boiler		212ºF	A				
Water, Boiling Distilled		225ºF	A			B	B
Water, Boiling Distilled		250ºF	A				
Water, Boiling Distilled		290ºF	A	A		B	B
Water, Brackish		150ºF	A	A			
Water, Cation Exchange	pH4	180ºF	A			B	
Water, DI		100ºF	A	A	A	B	B
Water, DI		150ºF	A	A	A	B	B
Water, DI		212ºF	A	A	A	B	NR
Water, Fresh		212ºF	A	A		B	B
Water, Salt	5%	150ºF	A			B	B
Water, Sea		165ºF	A	A		B	B
Water, Sea		212ºF	A	A		B	NR
Water, Tap		100ºF	A	A	A	B	B
Water, Tap		150ºF	A	A	A	B	B
Water, Tap		212ºF	A			B	NR
Wax		200ºF	A				
Whey		70ºF	A				
Whiskey		150ºF	A			B	B
White Liquor		150ºF	NR	NR		B	B
Whizz® Laundry detergent	100%	150ºF	NR	NR	NR		
Wine		100ºF	A			B	B
Wood Rosin	100%	100ºF	A	A	NR	B	B
Wood Rosin		388ºF	A			B	NR
Xylene	100%	150ºF	A	A		B	NR
P-Xylene		150ºF	A	A		B	NR
Yeast		150ºF				B	
Zinc Acetate	10%	100ºF	A			B	B
Zinc Acetate	30%	100ºF	A			B	B
Zinc Calcium Bromide		150ºF	A	A	A	B	B
Zinc Chloride	10%	150ºF	A	A		B	B
Zinc Chloride	40%	70ºF	A			B	B
Zinc Chloride	50%	70ºF	LR	LR		B	B
Zinc Nitrate		100ºF	B	B		B	B

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Zinc Plating Solution		150ºF	B	B		B	B
Zinc Sulfate		100ºF	B	B		B	B

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HERESITE PROTECTIVE COATINGS, LLC

3005 Ranchview Ln N
Plymouth, MN 55447
cdicurbs.com 888-234-7001

Manufacturer's Certification of Compliance

To Whom It May Concern,

I, Joe Long, Crystal Distribution Inc. Supply Chain Manager, certify that the products listed below comply with the domestic content requirements of the Build America, Buy America Act (BABA) and related federal regulations.

Product(s) or Material(s):

- Curbs
- Curb Adapters

Certification Statement:

For manufactured goods and construction materials, I certify that all manufacturing processes occurred in the U.S. at one of our five (5) manufacturing facilities, the cost of U.S.-sourced components is more than 55% of the total component cost, and final manufacturing or assembly was in the U.S.. For iron and steel products, all manufacturing, from melting through coating, took place in the U.S. based upon certifications provided to us by our galvanized sheet metal and micromat insulation suppliers.

This certification confirms compliance with all applicable BABA requirements.

Notification of Changes:

I agree to inform you immediately if compliance changes during this project.

Declaration:

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Joe Long
Supply Chain Manager
jlong@cdicurbs.com
763-639-7487

Line	Quantity	CDI Part #	Tag
D	1	2-0016-9220	PHP-L02

Description

Straight Curb
Straight, No Pitch, 16 in
New Model: RQ004 (PLENUM)
Wood Nailer; Top Brace; Not Insulated; Insulated Condenser Panel (only where required)

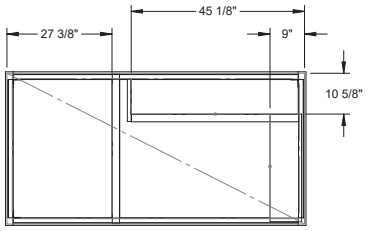
Curb to be coated with heresite p-413 by Blygold

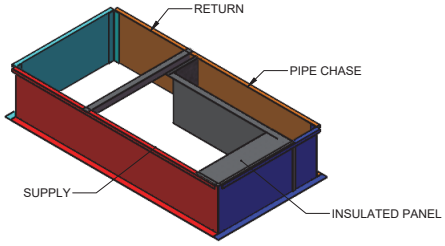
OPTIONS:
Material: 18 GA Galv. Steel
INSULATED PANELS (WHERE REQUIRED)
2X4 WOOD NAILER

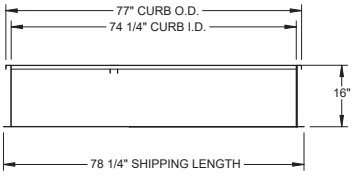
DIMENSIONED AND TOLERENCED PER ANSI Y14.5M-1982

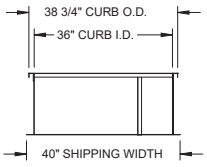
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	INITIAL DRAWING	11/21/25	GG

RTU TAG(S):









CURB SHOWN IS CDI STANDARD CONFIGURATION CDI RESERVES THE RIGHT TO CHANGE LAYOUT WITHOUT NOTIFICATION. IF CURB IS NEEDED IN A DIFFERENT CONFIGURATION CDI MUST BE NOTIFIED PRIOR TO PLACING AN ORDER.

*VERIFY EXISTING CURB OD
*VERIFY SUPPLY AND RETURN OPENINGS
*NOTE ANY CHANGES
*CALL WITH ANY QUESTIONS
*FAX BACK IF DRAWING IS OK AS IS

CURB WEIGHT (LBS.): 213

UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE: X ± 0.06, XX ±0.03, XXX ±0.01; X.X=±.007, X.XX ±.02

DIMENSIONS ARE AS FOLLOWS: Inch [mm]

3RD ANGLE PROJECTION

APPROVALS	DATE
DRAWN: gguerin	11/21/2025
CHECKED: -	-

CDI
17560 TYLER ST NW
ELK RIVER, MN 55330
(763)391-7790
(763)391-7851

TITLE: 2-0016-9220

FILE NAME: 2-0016-9220
ECO #:
DRAWING NO.: 2-0016-9220
REV: 01
SCALE: 1:25
SHEET: 1 OF 3

S:\CURBS_CURB_ADAPTERS\2-XXXX-XXXX_PITCHED_STRAIGHT_KD\STANDARD STRAIGHT-PITCHED\9000\2-0016-9220\

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Wate Water Resource Recovery Facility
PRODUCT	Packaged Air Conditioners/ Packaged Heat Pumps
MANUFACTURER	AAON
SPECIFICATION	156500-6-11 2.50
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 15, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

1100 Kendrick Ave. Springdale AR, 72764

SUBMITTAL NOTES

Review Comments

Remarks

1. **Please include bookmarks in the submittal PDF for the different unit tags and products.**
2. **Blygold coating submitted is tested on aluminum panels. This coating does not appear to be intended to be used as conformal coating for electronic circuit boards and wiring connections. Confirm or submit appropriate coating product for electronics.**
3. **Response to comment is not clear that the increased MCA rating has been coordinated with the electrical power circuit. Contractor to confirm.**
4. **Response to comments on roof curbs is not found. Confirm roof curbs are provided and include product information.**
5. **PAC A0l / PAC A02 / PAC J0l / PAC J02 / PHP L0l: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/ designer.**
6. **PHP L02: Contractor to coordinate exact location of openings with existing joists and framing members.**
7. **PHP L03: Contractor to coordinate exact location of openings with existing joists and framing members.**
8. **PHP M0l: This unit is supported by a concrete slab and grade**

Review Response

1. **Bookmarks are included on this submittal document**

2. The equipment manufacturer does not recommend coating electronic terminals or connections due to serviceability concerns. If the electrical is coated there is not a viable way to service, diagnose, or maintain proper operation of the systems. The note for H-2 Note 2 is listed below and calls out a conformal coating however, the spec calls for all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating. The H-2 Note #2 appears to be pulled from the Spec section 15650-11 Casing- a. DOAS 15650-12 a cont. Uncoated galvanized steel exterior is not acceptable. controls panels, wiring connections and other sensitive electronics shall be provided with heresite, E-coat, micro guard, or equal. There is not a spec call out for electrical coating on the Packaged Roof Top Units. Furthermore, the electrical components are in an isolated compartment not subject to exposure of the air stream.

H-2 Note 2 Packaged Roof Top Units 2. UNIT IS SUBJECT TO CORROSION FROM A HYDROGEN SULFIDE LADEN ATMOSPHERE. ALL AIRSTREAM COMPONENTS AND EXPOSED HEAT TRANSFER COMPONENTS SHALL BE GIVEN A PROTECTIVE SPECIAL COATING OF HERESITE, MICROGUARD 1, ELECTROFIN E-COAT OR APPROVED EQUAL. "CONTROLS PANELS, WIRING CONNECTIONS AND OTHER SENSITIVE ELECTRONICS – Pulled from DOAS Spec section 15650-11,12 a."

Spec - 15650-7 c. Where indicated in the schedules on the Drawings, all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating.

3. Contractor to Confirm

4. Curb data provided for each submitted section. Curbs to include Heresite P-413 coating by Blygold.

5. Contractor to Confirm

6. Contractor to Confirm

7. Contractor to Confirm

8. Contractor to Confirm

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Water Resource Recovery WRRF Facility
PRODUCT	Packaged Roof Top Units
MANUFACTURER	AAON
SPECIFICATION	15650
LOCATION	Springdale, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems
CONTRACTOR POC	
DATE	November 11, 2025
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

5440 Northshore Drive – North Little Rock, Arkansas 72118 – Tel: 501.374.5420 Fax: 501.370.9298

SUBMITTAL NOTES

PHP_L03

Remarks BLACK & VEATCH NOTES FROM SEPTEMBER 3, 20205

Building Mechanical Comments:
All Units:

1. Roof Top Units are specified under Division 15650, revise submittal title and confirm compliance with 15650.
2. Contractor to confirm that materials comply with American Iron and Steel (AIS) requirements as indicated section 15650-1.02.
3. AAON is not a listed manufacturer in specification section 15650. To be considered as a substitute, submit additional information on construction materials / components to prove compliance with section 15650 – 2.05.A.
4. There is no digital Building Management Control system (BMS) on the project. Controls are hardwired and must be built-in or coordinated with the general HVAC controls supplier. Contractor to confirm that all controls, interlocks, and alarms as indicated in the Contract Drawing Sequence of Operation H-6 will be provided.
5. Confirm extra materials will be provided as indicated in specification section 15650-2.05.A.3.
6. Confirm coatings will be applied as required by the Packaged Air Conditioning/Heat Pump Schedule Notes on Contract Drawing H-3. Please provide coating information and chemical resistance charts.
7. Confirm the cooling capacities listed in the submittal account for coatings provided.
8. Confirm Modulating Hot Gas Reheat is included on all units.
9. Confirm economizers are provided with differential enthalpy plus fixed dry bulb control.
10. Confirm supply fans are direct drive and provided with VFDs.
11. Confirm all units with R454B refrigerant are provided with A2L leak detection, alarm, and refrigerant circuit shutdown capability. Contractor to coordinate leak detection unit operation with duty / standby controls where applicable.
12. Confirm all units are provided with a roof curb 16 inches in height as required by spec paragraph 2.05.A.13.e.

POWERS OF ARKANSAS -
RESUBMIT NOTES 11/10/2025:
1. REVISED SUBMITTAL PER SPEC SECTION 15650
2. REVISED SUBMITTAL AMERICAN IRON AND STEEL COMPLIANCE - SEE BELOW
3. REVISED SUBMITTAL PER SPEC SECTION 15650-2.05.A.
4. REVISED SUBMITTAL UNIT HAS FACTORY CONTROLLER - FIELD CONTROLS PER DRAWING H-6 PROVIDED BY OTHERS
5. REVISED SUBMITTAL INCLUDES SPEC SECTION 15650-2.05.A. ADDITIONAL ITEMS OIL & FILTERS - PAGE #9 F9A BELOW - [1] LUBRICATING OIL SHIPS LOSE
6. REVISED SUBMITTAL INCLUDES CORROSIVE COATING PER DRAWING NOTE H-3 SEE ATTACHED HERESITE AND SUBMITTAL CALL OUT ON PAGE #10 F.37 & PAGE #16 BELOW
7. REVISED SUBMITTAL CAPACITES ACCOUNT FOR COATINGS.
8. REVISED SUBMITAL MHGRH CALLED OUT ON PAGE #10 F11A. BELOW
9. REVISED SUBMITAL NO ECONOMIZER
10. REVISED SUBMITAL DIRECT DRIVE FANS WITH ECM CALLED OUT ON PAGE #9 F3.4/F3.B/F3.C BELOW
11. REVISED SUBMITAL A2L COMPLIANT SEE ON PAGE #11 BELOW

I cannot say for sure if we have ever provided a letter or not to a customer. But all our raw material steel, Copper, Galvanized, Aluminum, & Stainless we get from domestic mills.

Jimmy T Davis
Category Manager-Raw Materials

AAON, Inc.
p: 918-382-6525
2425 S Yukon Ave
Tulsa, OK 74107
www.aaon.com

BLACK & VEATCH NOTES FROM SEPTEMBER 3, 2025

PHP-L03

1. Heat pump capacity appears below scheduled capacity. Confirm intent to operate heat pump and auxiliary electric coil simultaneously.
2. Confirm unit MCA with electric heat. If unit MCA is higher than listed in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3, Contractor to coordinate any needed changes with electrical at no additional cost to the owner.
3. The unit weight is higher than indicated in the schedule on contract drawing H-3. Contractor to coordinate any changes due to weight or different dimensions with the structural engineer at no additional cost to owner.
4. Three stages of cooling are required in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Submittal page 64 of 86 indicates one refrigerant circuit, and one step, this is not acceptable.

POWERS OF ARKANSA-
RESUBMIT NOTES 11/10/2025:

1. REVISED CAPACITY ON PAGE #5 BELOW - PAGE #6 HEAT PUMP CAPACITY TABLE AY DIFFERENT AMBIANT CONDITIONS.
2. REVISED SUBMITTAL PAGE #5 AUXILIARY HEAT
3. REVISED SUBMITTAL WEIGHT 756lbs vs. SCHEDULED OF APPROX 1500lbs - PAGE #5 BELOW
4. REVISED SUBMITTAL FIXED OA DAMPER

Unit Rating

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	1	2	3A	3B	3C	3D	3E	4A	4B	4C	5A	5B	5C	5D	5E	6A	6B	6C	6D	6E	7	8	9A	9B	9C
R	N	A	-	0	1	0	-	A	-	A	-	3	-	G	J	B	T	A	-	A	0	3	N	C	:	0	0	-	0	A	C	L	H	-
G	0	0	-	0	0	0	0	0	-	A	B	G	M	H	-	D	C	-	0	0	0														
A	-	0	0	-	Q	0	-	0	-	A	N	0	-	E	B	-	H	A	0	A	-	0	0	-	0	0	0	-	B	0	0	B	0	0
-	G	0	0	0	0	B	-	0	0	0	0	0	0	C																				

9D	10A	10B	11A	11B	12	13A	13B	13C	14	15	16A	16B	16C	16D	17A	17B	18A	18B	18C	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37

Tag: PHP_L03

Job Information

Job Name:	*Bentonville WRRF*
Job Number:	*Bentonville WRRF*
Site Altitude:	*1266*
Refrigerant:	*R-454B*
Design System Charge (oz):	*713*

Static Pressure

External:	*1.60 in. w.g.*
Cooling Coil:	*0.62 in. w.g.*
Filters Clean:	*0.20 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*
Reheat Coil:	*0.09 in. w.g.*

Cooling Section

	Gross	Net
Total Capacity:	*109.1 MBH*	*99.8 MBH*
Sensible Capacity:	*89.8 MBH*	*80.4 MBH*
Latent Capacity:	*19.3 MBH*	
Mixed Air Temp (DB/WB):	*73.9 °F / 61.5 °F*	
Entering Air Temp (DB/WB):	*73.9 °F / 61.5 °F*	
Lv Air Temp (Coil) (DB/WB):	*51.0 °F / 50.8 °F*	
Lv Air Temp (Unit) (DB/WB):	*53.3 °F / 51.8 °F*	

Supply Air Fan:	*1 x RNA185 @ 3.30 BHP Ea.*
SA Fan RPM / Width:	*2086 RPM / 4.140 in*
SA Fan FEI:	*1.20*
Exhaust Air Fan:	*1 x RM12X9-RN @ 2.11 BHP Ea.*
EA Fan RPM / Width:	*1108 RPM /*
EA Fan FEI:	*0.36*
Evaporator Coil:	*8.8 ft² / 6 Rows / 14 FPI*
Evaporator Face Velocity:	*434.3 fpm*

Unit Information

SCHEDULED WEIGH 1500lbs

Approx. Op./Ship Weights:	*1502 lbs / 1502 lbs (±5%)*
Ambient Temperature (DB/WB):	*102.0 °F / 75.0 °F*
Coil Filter FV / Qty:	*427.5 fpm / 4*
Min. Room Area/Height/Airflow**:	*669 ft² / 7 ft / 1206 SCFM*
Exhaust Airflow/ESP/TSP:	*3510 SCFM / 0.10 in. w.g. / 0.36 in. w.g.*
Outside Air Prefilter FV / Qty:	*103.8 fpm / 1*
Supply Airflow/ESP:	*3800 SCFM / 1.60 in. w.g.*
Outside Airflow:	*300 SCFM*
Return Airflow/ESP:	*3675 SCFM / 0.10 in. w.g.*
Return Temperature (DB/WB):	*71.5 °F / 60.1 °F*
Economizer:	*0.19 in. w.g.*
Heater:	*0.15 in. w.g.*
Cabinet:	*0.23 in. w.g.*
Total:	*3.43 in. w.g.*

Heating Section

Preheat Type:	*Std (No Preheat)*
Integrated Heat Capacity:	*57.5 MBH*
Primary Heat Type:	*Heat Pump*
Total Capacity:	*63.0 MBH*
OA Temp (DB/WB):	*15.0 °F / 9.0 °F*
RA Temp (DB/WB):	*65.7 °F / 62.0 °F*
Entering Air Temp (DB/WB):	*61.7 °F / 59.2 °F*
Leaving Air Temp (DB/WB):	*76.0 °F / 64.1 °F*
Input (Emergency/Aux):	*30.0 kW / 30.0 kW*
Fan Temp Rise:	*2.3 Δ°F*
Auxiliary Heating Type:	*Electric Heat*
Heating Airflow:	*3800 SCFM*
Emergency Capacity:	*30.0 kW* AUX HEAT OPERATES WHILE HEAT PUMP IS IN OPERATION
Auxiliary Capacity:	*30.0 kW*
Emergency Entering Air Temp (DB/WB):	*61.7 °F / 59.2 °F*
Emergency Leaving Air Temp (DB/WB):	*87.3 °F / 67.7 °F*
Auxiliary Entering Air Temp (DB/WB):	*76.0 °F / 64.1 °F*
Auxiliary Leaving Air Temp (DB/WB):	*101.6 °F / 71.8 °F*
Electric Heat FLA:	*36.1*

Re-heat Coil:

Capacity:	*94.0 MBH*
Leaving Air Temp (DB/WB):	*75.0 °F / 60.1 °F*
Relative Humidity:	*42.5%*

Rating Information

Listing Model	*RN-010-3-0-GBBC-V0-21-000-A*
Cooling Capacity:	*108.0 MBH*
Cooling EER:	*11.1 BTU/h·W*
Cooling IEER:	*14.5 BTU/h·W*
Rated in accordance with AHRI Standard 340/360 (I-P)	
Application EER @ Op. Conditions:	***7.3 BTU/h·W***
Application COP @ Op. Conditions:	***1.89 W/W***
Application COPH @ Op. Conditions:	***3.5 W/W***

Heating High Temp Capacity:	*97.0 MBH*
Heating High Temp COP:	*3.5 W/W*
Heating Low Temp Capacity:	*59.5 MBH*
Heating Low Temp COP:	*2.25 W/W*

Electrical Data

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

Circuit 1

Rating:	*460V/3Ø/60Hz*	*Minimum Circuit Amp:*	*78* SCHEDULED MCA 76
Unit FLA:	*65*	*Maximum Overcurrent:*	*80*
SCCR:	*10 KAIC*		

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	*1*		*460*	*3*			*13.5*
Condenser Fan:	*2*	*0.33*	*460*	*1*	*1100*	*1.6*	
Supply Fan:	*1*	*5.00*	*460*	*3*	*1760*	*7.6*	
Exhaust Fan:	*1*	*3.00*	*460*	*3*	*1760*	*4.8*	

Cabinet Sound Power Levels*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW (dB):	*91*	*89*	*90*	*87*	*81*	*78*	*74*	*69*
Return LW (dB):	*96*	*91*	*80*	*74*	*75*	*70*	*65*	*59*

**Sound data is generated by a propriety acoustics model validated through unit testing in accordance with AHRI 260, utilizing tested fan sound data in accordance with AMCA 300.*

*****The minimum floor area is based on the Lower Flammability Limit (LFL) and calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.***

HEAT PUMP Performance Data Table

Outside Air		Mixed Air		Leaving Air		Heat Pump Capacity	Heat Pump Integrated Capacity	Heat Wheel Heating Capacity	Heating COP
DB °F	WB °F	DB °F	WB °F	DB °F	WB °F	MBH	MBH	MBH	W/W
62.0	56.2	65.4	61.6	98.9	71.9	134.1	134.1		3.47
57.0	51.6	65.0	61.3	95.8	70.9	123.5	123.5		3.30
52.0	47.1	64.6	61.0	93.0	70.0	113.7	113.7		3.12
47.0	42.6	64.2	60.7	90.3	69.1	104.8	104.8		2.95
42.0	38.0	63.8	60.5	88.0	68.3	97.1	97.1		2.80
37.0	33.5	63.4	60.2	82.7	66.6	90.1	77.4		2.32
32.0	28.8	63.0	60.0	81.2	66.1	83.5	73.0		2.23
27.0	24.3	62.6	59.8	79.7	65.6	77.5	68.7		2.15
22.0	19.7	62.3	59.6	78.3	65.1	72.0	64.7		2.06
17.0	15.0	61.9	59.4	76.9	64.6	66.8	60.8		1.97
12.0	10.4	61.5	59.3	75.6	64.1	62.1	56.9		1.88
7.0	5.7	61.1	59.1	74.2	63.6	57.6	53.0		1.78
5.0	2.0	60.9	59.0	73.4	63.3	54.9	50.5		1.71
2.0	0.1	60.7	58.9	72.7	63.1	52.7	48.5		1.66
0.0	0.0	60.5	58.9	72.4	63.0	52.2	48.0		1.65

**Invalid operation point - Compressor operating outside of operating envelope*
***Electric preheat is used to maintain the entering air temperature when applicable.*

18.5" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PHP_L03*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*2200*
Diameter x Qty:	*18.5 in. x 1*
CFM:	*3800*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*3800*
Fan Energy Index (FEI):	*1.20*
Static Pressure:	*3.43 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*3.59 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*3.59 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*5 x 1 / No*
Frame Size:	*184T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*460V/3Ø/60Hz*
Enclosure Type:	*TEFC*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE:

RPM:	*2086*
BHP:	*3.30*
Efficiency:	*62.27%*
Max Duct SP with Blocked Airway:	*0 in. Wg @2086 RPM*

Max Duct SP with Blocked Airway:

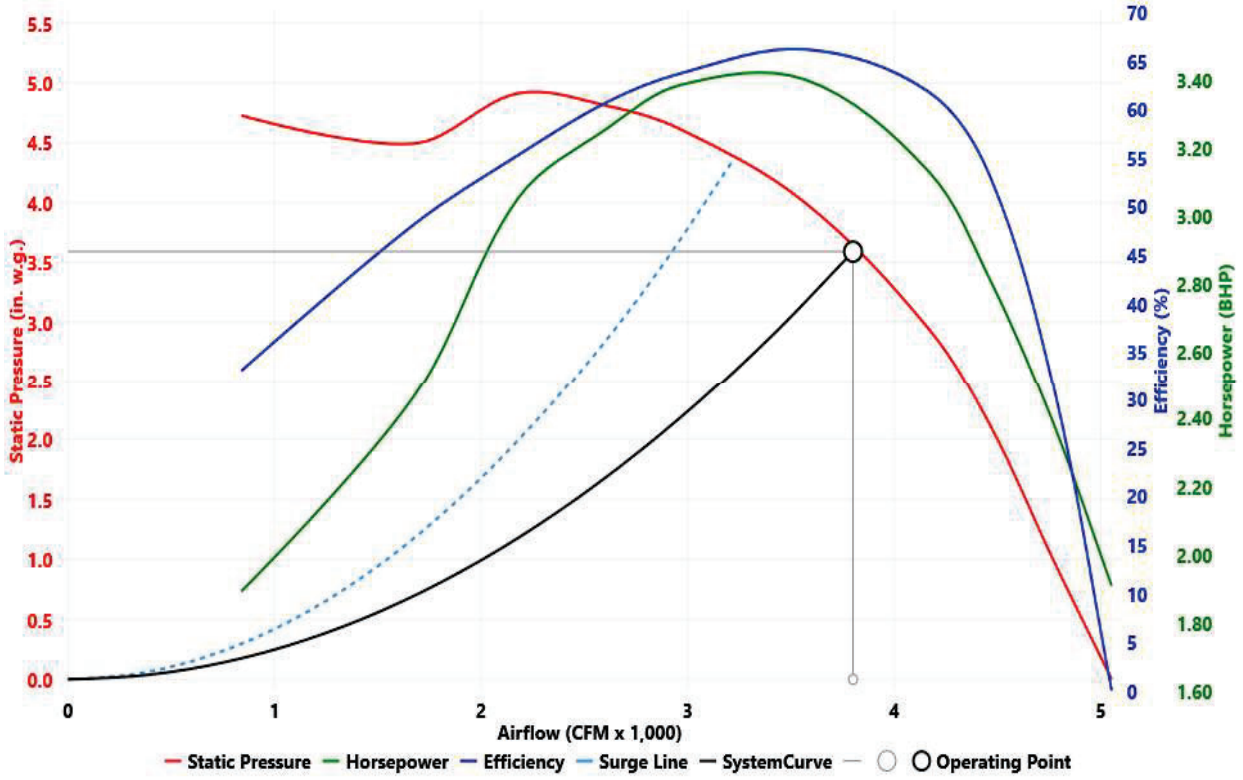
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
89	88	90	89	84	81	78	73
89	88	90	89	84	81	78	73

SOUND POWER A-Weighted: 91 dB

Supply Fan Model: RNA185 @ 2086 RPM and 100% Width
Design Conditions: 3800 CFM @ 3.59 in. w.g. SP



11" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PHP_L03*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*1440*
Diameter x Qty:	*11 in. x 1*
CFM:	*3510*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*3510*
Fan Energy Index (FEI):	*0.36*
Static Pressure:	*0.36 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*0.37 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*0.37 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*3 x 1 / No*
Frame Size:	*182T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*460V/3Ø/60Hz*
Enclosure Type:	*TEFC*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE

RPM:	*1108*
BHP:	*2.11*
Efficiency:	*9.44%*
Max Duct SP with Blocked Airway:	*0 in. Wg @1108 RPM*

Max Duct SP with Blocked Airway:

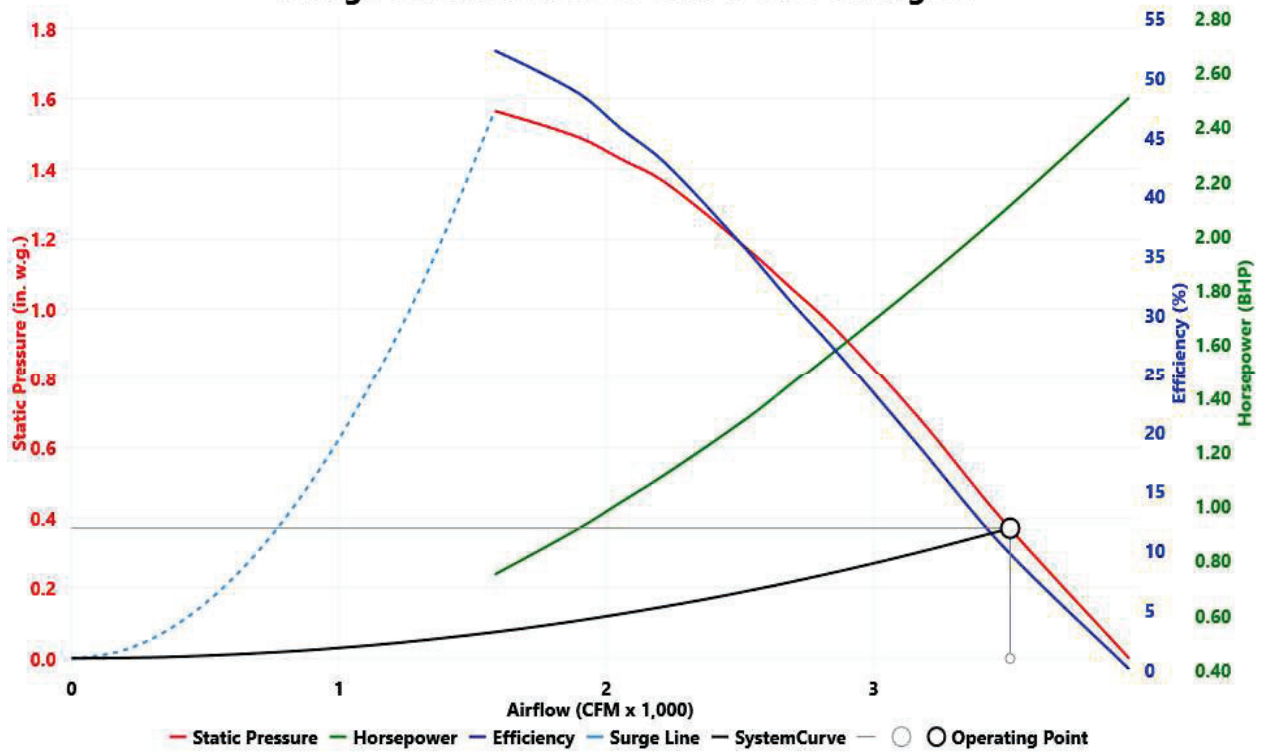
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
96	92	83	79	78	72	67	62

SOUND POWER A-Weighted: dB

Exhaust Fan Model: RM12X9 @ 1108 RPM and 100% Width
Design Conditions: 3510 CFM @ 0.37 in. w.g. SP



Unit Submittal

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

```
                                                A1 A2 A3 A4 A5    B1 B2 B3 B4 B5    1  2    3A 3B 3C 3D 3E    4A 4B 4C    5A 5B 5C 5D 5E    6A 6B 6C 6D 6E    7  8    9A 9B 9C
RNA-010-A-A-3-GJBTA-A03NC:00-0ACLH-G00-00000-ABGMH-DC-000
              A-00-Q0-0-AN0-EB-HA0A-00-000-B00B00-G0000B-000000C
                9D  10A 10B 11A 11B 12  13A 13B 13C 14 15 16A 16B 16C 16D 17A 17B 18A 18B 18C 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37
```

Tag: *PHP_L03*

Job Name: *Bentonville WRRF*

Job Number: *Bentonville WRRF*

Unit Worksheet For:

Unit Worksheet Date: *11/12/2025*

	Base Option	Description
RN	Generation	RN Series
A	Major Revision	Major Revision A
010	Unit Size	Ten
A	Series	A Series
A	Minor Revision	Minor Revision A
3	Voltage	460V/3φ/60Hz
G	Compressor Style	R-454B Variable Capacity Scroll Compressor
J	Condenser Style	Alpha Class - Air-Source Heat Pump
B	Indoor Coil Configuration	6 Row Evaporator
T	Cooling Heat Exchanger Construction	Stainless Steel Evap. Coil Casing + Polymer E-Coated Evap. And Cond. Coils
A	Cooling Staging	1 Variable Capacity Comp
A	Heat Type	Electric Heat (Vertical Unit Configuration)
0	Heat Construction	Standard
3	Heat Designation	30 kW
N	Heat Staging	Modulating SCR Electric - Temperature Control
C	Heat Pump Auxiliary Heating	Auxiliary Heat - 30kW - Modulating

	Feature Option		Description
0	F1.	Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	F2.	Supply & Return Locations	Bottom Supply--Bottom Return
0	F3A.	Supply Fan Quantity	1 Fan
A	F3B.	Supply Fan Configuration	1 Fan per VFD + Full Width Fan
C	F3C.	Supply Fan Size	18.5" Direct Drive Backward Curved Aluminum
L	F3D.	Supply Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
H	F3E.	Supply Fan Motor Size	5 hp
G	F4A.	Outside Air Section	Economizer + Power Exhaust
0	F4B.	Energy Recovery Type	No Energy Recovery
0	F4C.	Energy Recovery Size	No Energy Recovery
0	F5A.	Return Fan Quantity	0 Return Fans
0	F5B.	Return Fan Configuration	No Return Fan
0	F5C.	Return Fan Size	No Return Fan
0	F5D.	Return Fan Motor Type	No Return Fan
0	F5E.	Return Fan Motor Size	No Return Fan
A	F6A.	Exhaust Fan Quantity	1 Fan
B	F6B.	Exhaust Fan Configuration	1 Fan per VFD + Full Width Fan
G	F6C.	Exhaust Fan Size	12x9 Forward Curved
M	F6D.	Exhaust Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
H	F6E.	Exhaust Fan Motor Size	3 hp
D	F7.	Outside Air Control	Fully Modulating Actuator - Dual Enthalpy Limit + Dry Bulb Temp Sensor
C	F8.	Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	F9A.	Unit Filter Type	2" Pleated - MERV 8 PLUS [2] EXTRA SET PER SPEC 15650-2.05.A.3.
0	F9B.	Unit Filter Size & Location	Standard Filters in Standard Position
0	F9C.	Final Filter Type	No Final Filters
A	F9D.	Filter Options	Clogged Filter Switch - Unit Filters
0	F10A.	Refrigeration Control A	Standard - Adj Comp. Cooling Lock Out Through Unit Controls

	Feature Option		Description
0	F10B.	Refrigeration Control B	Standard
Q	F11A.	Refrigeration Options A	Modulating Hot Gas Reheat [MHGR]-MC - Polymer E-Coated
0	F11B.	Refrigeration Options B	Standard Packaged Unit
0	F12.	Refrigeration Accessories	None
A	F13A.	Unit Disconnect Type	Single Point Power - Non-fused Disconnect Power Switch
N	F13B.	Disconnect 1 Size	100 Amps
0	F13C.	Disconnect 2 Size	Standard - None
E	F14.	Safety Options	Remote Safety Shutdown Terminals
B	F15.	Electrical Accessories	Phase & Brown Out Protection
H	F16A.	Control Sequence	Constant Air Volume Heat Pump Unit Controller - CAV Cool + CAV Heat
A	F16B.	Control Supplier	AAON Controls
0	F16C.	Control Supplier Options	None
A	F16D.	BMS Connection & Diagnostics	BACnet IP or MSTP
0	F17A.	Preheat Configuration	Standard - None
0	F17B.	Preheat Sizing	Standard - None
0	F18A.	Option Box Location	None
0	F18B.	Option Box Size	None
0	F18C.	Option Box Accessories	None
B	F19.	Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20.	Cabinet Options	Standard - None
0	F21.	Accessories	Standard
B	F22.	Maintenance Accessories	Field Wired 115V Convenience Outlet
0	F23.	Code Options	Standard - ETL U.S.A. Listing
0	F24.	Shipping Splits	Standard
G	F25.	Air-Cooled Condenser Accessories	Cond Coil Guards + ECM Condenser Fan Head Pressure Control
0	F26.	Evap-Cooled Condenser Accessories	Standard
0	F27.	Water-Cooled Condenser Accessories	None
0	F28.	Energy Recovery Accessories	None
0	F29.	VFD Options	Standard
B	F30.	Miscellaneous Options	SCCR (10kA)
0	F31.	Blank	Standard
0	F32.	Blank	Standard
0	F33.	Blank	Standard
0	F34.	Blank	Standard
0	F35.	Warranty	Standard Warranty
0	F36.	Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
C	F37.	Specials & Paint	Premium AAON Gray Paint Exterior Paint + HERESITE P-413 Interior Corrosion Protection

Controller Components

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 1 2 3A 3B 3C 3D 3E 4A 4B 4C 5A 5B 5C 5D 5E 6A 6B 6C 6D 6E 7 8 9A 9B 9C

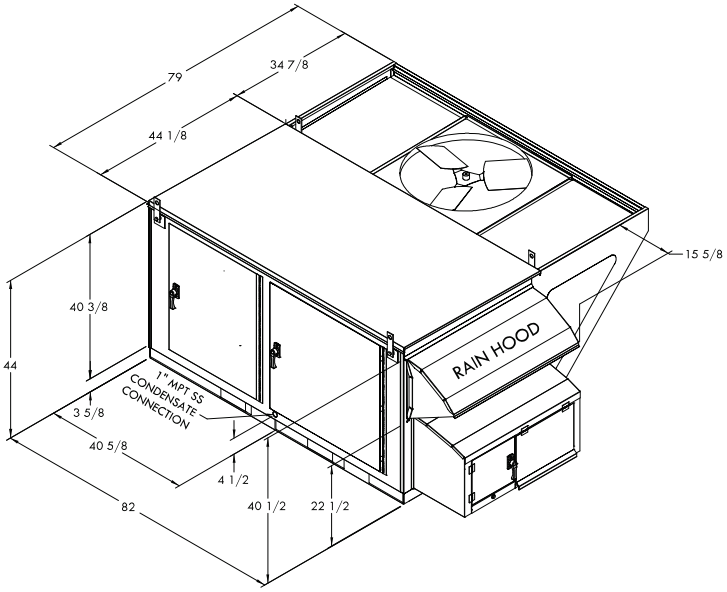
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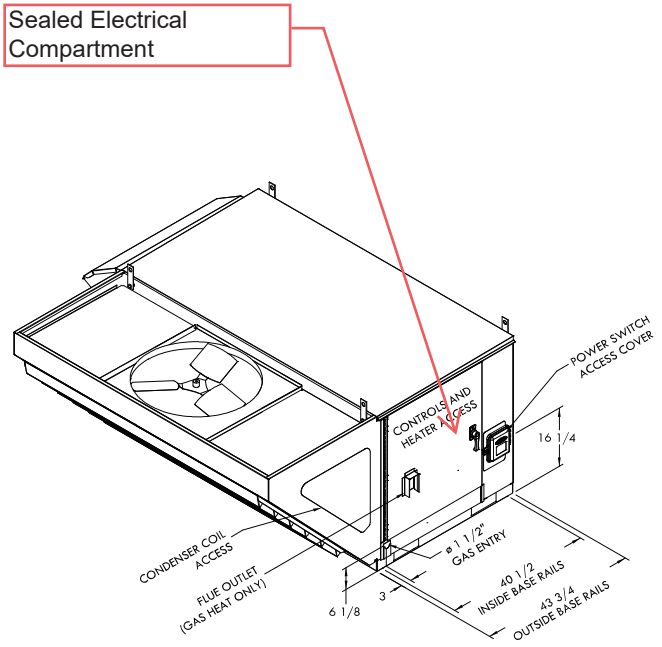
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Tag: PHP_L03

Job Name:	Bentonville WRRF	For:	
Job Number:	Bentonville WRRF	Date:	November 12, 2025

Part#	Included Parts	Assigned Channel	BACnet Point
ASM07503	VCCX-454 CONTROLLER		
ASM01692	OSA Temp/Hum Sensor	EBUS2 Communicating Sensor	AI:16,AI:17,AI:18,AI:19
R82890	Supply Temp Sensor - Field Installed	VCCX Control Point AI3	AI:9
ASM01820	Space Digital Temp/Hum Sensor	EBUS3 Communicating Sensor	AI:12,AI:13
ASM01832	Building Pressure Sensor	VCCX Control Point AI5	AI:23
	Supply Fan Control Signal 0-10VDC	VCCX Control Point AO1	AI:22
	Economizer	VCCX Control Point AO2	AI:30
	Modulated Heating (0-10VDC)	VCCX Control Point AO3	AI:35
	Building Pressure Control Signal	VCCX Control Point AO4	AI:24
R62330	Proof of Air Flow	VCCX Control Point BI1	BI:6, BI:24
G150620	Clogged Filter Switch (Standard Filters)	VCCX Control Point BI2	BI:25
	A2L Airstream Leak Detect Status	VCCX Control Point BI5	BI:9
	Safety Shut Down	VCCX Control Point BI8	BI:26
	Supply Fan	Configured Relay Point	BI:0
	Exhaust Fan	Configured Relay Point	BI:1
	Heat 1	Configured Relay Point	BI:2
ASM07563	A2L MITIGATION BOARD 1		
G137750	Gas Sensor 1	A2L MB1 AI1	
	Supply Fan Proof of Flow	A2L MB1 BI1	
	Alarm Output	A2L MB1 Fixed RO3	
ASM07716	REFRIGERATION MODULE		
V38391	Suction Pressure Sensor A	RM454-D SP-1	AI:48
V38410	Discharge Pressure Sensor A	RM454-D HP-1	AI:50
	Comp Discharge Temp A	RM454-D TEMP1	AI:66
	Modulated Condenser Signal A	RM454-D AOUT1	AI:46
G017740	O.D. Coil Defrost Temp Switch	RM454-D BIN3	BI:81
	Comp Status Input A	RM454-D BIN1	BI:77
	Emergency Shutdown	RM454-D BIN4	BI:83
	Comp Enable A	RM454-D RLY1	BI:84
	Comp Unload Signal A	RM454-D COMP1	AI:44
	Reversing Valve Enable	RM454-D RLY5	BI:88
ASM01670	MODULATING HOT GAS REHEAT MODULE		
	Reheat HGR Valve	MHGRV-X	AI:42

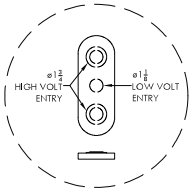




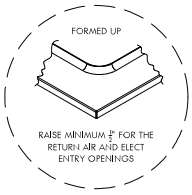
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RN A-CABINET ALPHA CLASS HEAT PUMP
AIR COOLED WITH ECONOMIZER, POWER EXHAUST

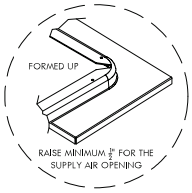
Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L03	RNA-00017



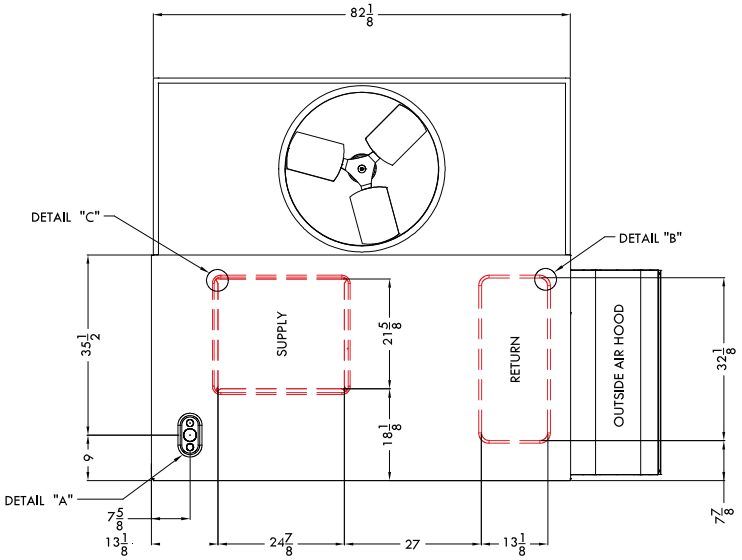
DETAIL A
UTILITY ENTRY

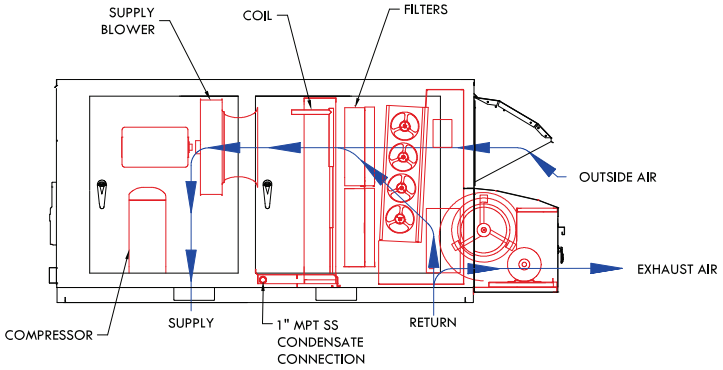


DETAIL B
RETURN AIR AND UTILITY
ENTRY OPENINGS



DETAIL C
SUPPLY AIR OPENING





ALL DIMENSIONS IN INCHES

RN A-CABINET ALPHA CLASS HEAT PUMP
AIR COOLED WITH ECONOMIZER, POWER EXHAUST

Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L03	RNA-00017

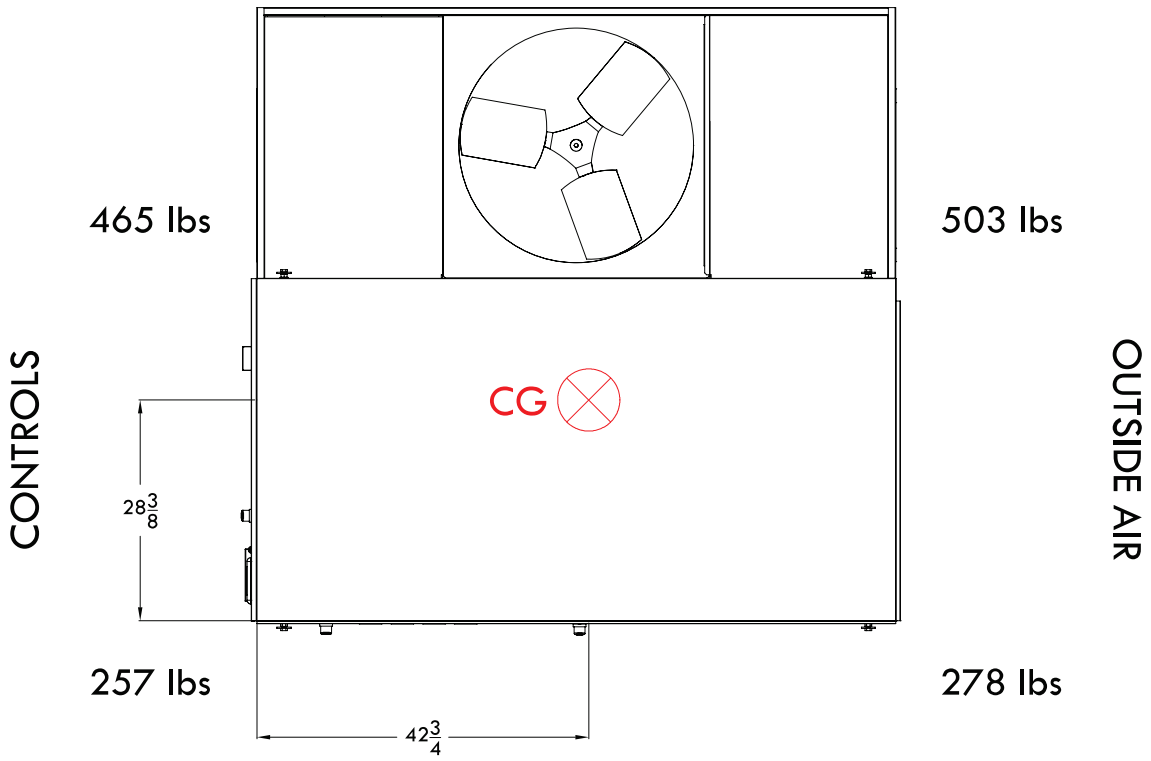
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Shipping Weight: 1502 lbs ±5%

Operating Weight: 1502 lbs ±5%

Center of Gravity (X, Y): 42.7 in, 28.4 in

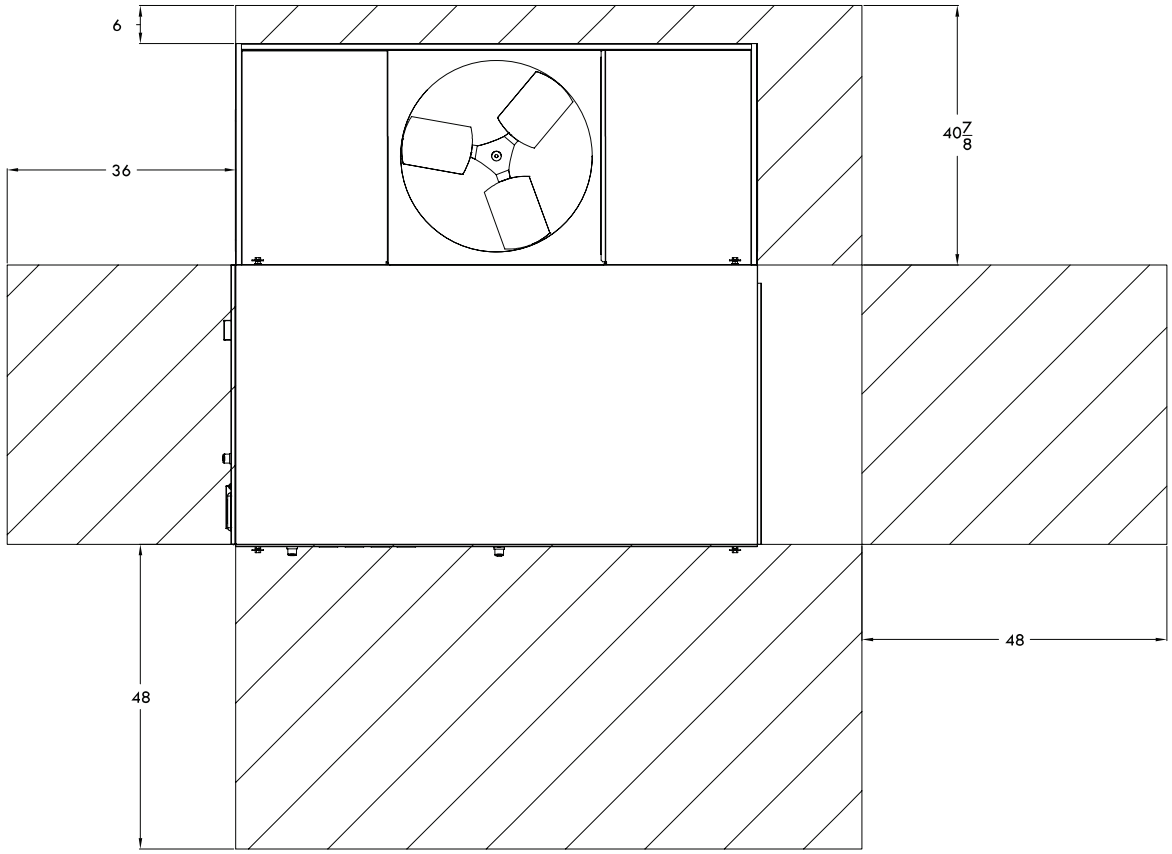
LEFT



RIGHT

ALL DIMENSIONS IN INCHES

	UNIT CORNER WEIGHTS AND CG		
Job Name: Bentonville WRRF		Unit Tag: PHP_L03	Drawing No.: RNA-00017



ALL DIMENSIONS IN INCHES

UNIT CLEARANCES

Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_L03	RNA-00017

Heresite P-413

Our 50 years of coating history speaks for itself.

In 1964, Heresite was the first company to apply coatings to aluminum-finned, copper-tubed heat exchangers. The Heresite coating became then, and still remains a standard in the industrial coatings industry. We provide the highest quality protective coatings for air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. Our phenolic epoxy has an advantage of dense cross linking and can therefore be applied as a very thin film maintaining stable heat transfer.

We continue our focus on innovation and again have a new story to tell, as we introduce our updated P-413

- A high performance phenolic epoxy coating developed specifically for heat exchangers.
- The flexibility and corrosion resistance of Heresite P-413 appreciably increases the service life of your heat exchange equipment.
- It is specially suited for coating light gauge metals in equipment operating in severe corrosive environments.

P-413 Specifications

The coil will receive a uniform coating on all surfaces, including fin edges, with P-413, a thermoset, modified phenolic coating. Application of P-413 will be through multiple coats by immersion or flow coating to a film thickness of approximately 1.0 mil.

P-413 provides corrosion protection in a 6,000 hour salt spray test in accordance with ASTM B-117 and humidity resistance of >2,000 hours per ASTM D2247. Chemical resistance is demonstrated via 100+ acetone double-rubs per ASTM 5402. P-413 also exhibits superior hardness of 5–6H per ASTM D3363, adhesion of 5B per ASTM B3359 and impact resistance of 160 in/lbs (ASTM D2794). Color shall be brown with gloss of 20–60 — 60 degree. If the coils are to be subjected to direct ultraviolet (UV) exposure, a spray-applied UV-resistant topcoat is an option.

Effective date: 10/09/17

P-413 Typical Properties (@ 1 mil DFT)

Salt Spray: ASTM B-117: 6,000+ hours

SWAAT: ASTM G85-11 Section A.3: Passed 1,000 hours using pressurized coil (see page 2 for results)

Cyclic Weathering: ISO 20340 Offshore Standard: Passed (4,200 hours)

Performance Testing: ISO 12944-6 C5 I/M: Passed C5-M high durability and C5-I high durability

Heat Transfer Reduction: <1% as applied for heat transfer components

Humidity: ASTM D-2247: 2,000+ hours

Simulated Sea Water Resistance: 2,000 hours

Solvent Resistance: ASTM-D5402: 100 acetone double rubs

Cross-hatch Adhesion: ASTM D-3359: 5B

Mandrel: ASTM-D522: >1/4 inch

Impact: ASTM D-2794: 160 lb/inch steel; 40 lb/inch aluminum

pH Range (14 day liquid spot test): 2.4–12.6

Temperature Cycling (4 hours at –75°C; 4 hours at 190°C): 4B–5B adhesion after 5 cycles

Dry Heat Resistance (4 hours at 200°C; 20 minutes at 232°C): 4B–5B adhesion after 5 cycles

Dry Film Thickness: ~1 mils

Hardness: ASTM D3363: 5–6H

Gloss: 20–60 on 60 degree meter (topcoat dependent)

Microchannel Compatible

Abrasion Resistance: 30–40 mg loss per 1,000 cycles

Meets FDA 175.300 for indirect food contact

Meets MIL Spec: MIL-C-18467, MIL-E-480 and MIL-STD-883 Method 1101

Meets Other Specs: Honeywell MC 7200-01 and GE F50T17

Thermal Conductivity: At approximately 2 mils thickness, Thermal Conductivity is less than 1.0 w/mK

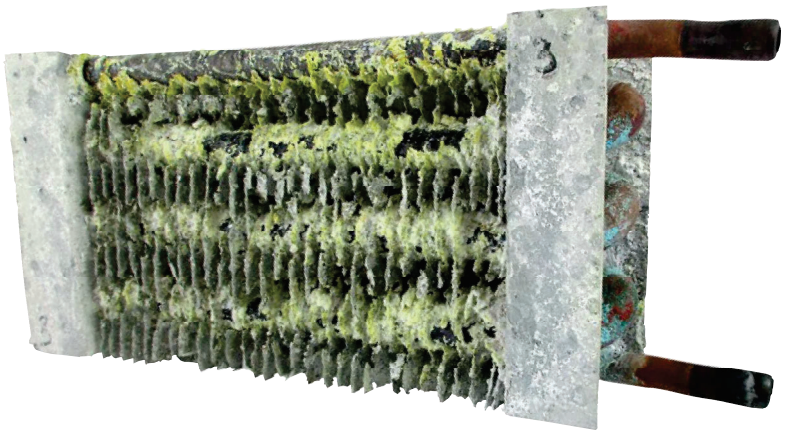
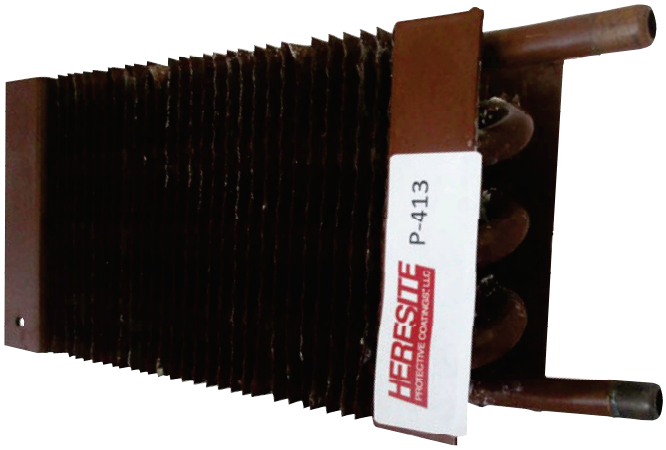
Dielectric Strength [ISO2376:2010(e)]: 286 volts per mil of thickness

NSF Certified – ANSI 51 Certification of Coatings for Food Zone – Non Contact

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HERESITE® PROTECTIVE COATINGS, LLC

SWAAT Results

	**Bare 1,000 hour SWAAT**
	**P-413 1,000 hour SWAAT**
	**P-413 + topcoat 1,000 hour SWAAT**

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Product Description
Baking cross-linked phenolic epoxy

Recommended Uses
Heresite P-413 is a high performance coating used principally for heat transfer components and parts — especially air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. This phenolic epoxy has an advantage of dense cross linking and are therefore highly corrosion resistant even when applied as a very thin film.

Chemical Resistance
P-413 is chemically resistant to a wide range of acids, solvents, and inorganic salts. Please review chemical resistance guide for further information.

Packaging Information
P-413 is available in one gallon, five gallon and 54 gallon drum quantities.

Thinners and Cleanup
Recommended use of Heresite S-275.

Storage Conditions
Coating should not be stored longer than 6 months. Coating should be stored in a clean, dry environment at 50–75°F. Keep out of direct sunlight. Avoid excessive heat and keep from freezing.

Physical Properties
Solids by weight: Approximately 73%

Solids by volume: Approximately 57%

Pot life: NA

Mixing Ratio by Volume: NA 1 component

Shelf life: 6 months

Color: Brown

VOC Content
2.25 lbs/gal (270 g/L) as supplied

Film Thickness
For heat transfer, a 2 coat immersion process will typically yield a dry film thickness of 1.0–2.0 mils (25–50 microns).

For other parts, please contact Heresite.

Coverage
Theoretical coverage is 800 square feet per gallon per dry mil. Coverage rates are estimates and make no allowance for material loss. Actual rates will vary dependent on application method, surfaces, etc.

Surface Preparation
All surfaces must be clean, sound, and free of any oils, dirt, grease, wax and any other contamination that may interfere with coating adhesion.

In general, the surface should be cleaned by solvent or a cleaner at elevated temperature followed by a clean water rinse. Rinse water shall have a conductivity of lower than 500 microsiemens and a neutral pH (7.0–8.0). All surfaces must be dried prior to application of coating.

In cases where there is a large amount of contamination or heat treated steel, a commercial blast is acceptable in accordance with NACE #3 or SSPC-SP-6-63 specifications. Surface profile or anchor pattern shall be 20–25% of the recommended dry film thickness.

Thinning
Reduce P-413 with S-275 solvent to 13–13.5 seconds on ISO Dip 3 mm Cup. This requires approximately a 1:1 dilution by volume.

The amount of thinner required is dependent upon temperature, ventilation, humidity, application type and desired film thickness.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Application

Application is specific to heat transfer components, for other parts — please contact Heresite.

Immersion Application:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Consult Heresite for tank and pump recommendations.
4. Ensure as the part is prepared for immersion, one will have a low point for drainage.
5. Immerse the cleaned part for 15 seconds in the reduced P-413.
6. Upon removal of the part from the coating, apply light air pressure (approximately 15 psi) using an Air Knife or similar device to spread the air flow. Using the compressed air, remove excess coating. Minimal brushing should be required.
7. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
8. Typically, a two coat immersion process is required to achieve 1.0 to 1.5 mil DFT. An intermediate bake is required between coats — see baking schedule.
9. It may be deemed desirable to apply a final aesthetic spray. This can be accomplished immediately after the final immersion is accomplished and prior to final bake.
10. During immersion application, the viscosity must be maintained and monitored. It is recommended that the viscosity be checked every hour to ensure compliance with the specification of 13–13.5 seconds. Additional solvent and coating can be added to adjust viscosity as needed.

Spray Application for Final Aesthetic Spray:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective.
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Typically, a one coat process is required to achieve 0.5 to 1.0 mil DFT.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Spray Application for Higher Film Build — 4–6 mil:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective (13.0–13.5 seconds ISO Dip 3 mm).
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film. Allow a minimum of 10 minutes to allow the slow solvents to evaporate. Then apply another 2–3 crisscross multi-passes.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Intermediate bake at 130°C (metal temperature) for a minimum of 10 minutes.
12. Repeat steps 7–10.
13. Final bake per the instructions within the bake schedule.
14. Typically, a two to three coat process is required to achieve 4.0 to 6.0 mil DFT.

Bake Schedule

Intermediate Bake:

1. 90°C (metal temperature) for a minimum of 10 minutes.
   a. To decrease the bake time, a maximum temperature of 130°C may be used.

Final Bake:

1. "Normal" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 15 minutes, then increased to 190°C. 190°C (metal temperature) held for 45 minutes.
2. "Soft Solder" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 130 minutes.

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKERS MUST WEAR FRESH AIR LINE RESPIRATORS. PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMERS SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

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Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

HERESITE

PROTECTIVE COATINGS®
LLC

Chemical Resistance Guide

Test data for the products published in this guide are determined by immersion of a coated panel in the chemical being tested. Additional information on the coating's resistance is achieved through the coating's history in actual service environments.

Temperature and concentration data are not necessarily the maximum operating conditions. They are the temperature and concentrations at which the specified coating system has been tested. The coating system may be suitable for higher temperatures and different concentrations but additional information or testing would be required.

Date: May 2019
(supersedes all previous copies)

To the best of our knowledge, the technical data contained herein is true and accurate at the date of insurance and are subject to change without prior notice. User must contact laboratory to verify corrections before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance, or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost are subject to change without prior notice. **NO OTHER GUARANTEE OF ANY KIND IS MADE BY SELLER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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HERESITE PROTECTIVE COATINGS, LLC

Key to the Guide

A	Coating is resistant, for continuous immersion, against attack from the chemical listed
B	Coating is resistant against attack from fumes of the chemical listed. For immersion service of the chemical please refer to a coating with an **A** or **LR** listed or contact Heresite Protective Coatings.
C	Coating will provide the necessary 72 hours resistance required for secondary containment. Coatings are not recommended for continuous immersion.
LR	Limited Recommendation, contact Heresite Protective Coatings, Inc. for assistance.
NR	Coating is not recommended for the service conditions.
Blank	Coating has insufficient test data for the service conditions.

Coatings are continuously being tested in a wide rage of service conditions. If you condition is not among the ones listed contact Heresite Protective Coatings at 920-684-6646 for assistance.

Coatings Included in This Guide

P-403L	High bake phenolic. P-403L offers excellent resistance to solvents, acids and salts, including 70-98% sulfuric acid at tmperatures up to 120F.
P-403L/L-66L	High gloss phenolic system designed for use when abrasion and release properties are required. This system utilizes P-403L as the primer and L-66L as the topcoat.
EP-6379	Baked epoxy phenolic. EP-6379 is resistant to a wide range of pH environments found in fume control devices, chemical, drill, process pipes and is also used in storage and ISO tanks.
P-413	Modified baked phenolic designed for HVAC equipment and light gauge metal. In addition to marine and salt air environments, the P-413 family of coatings will withstand exposure to an extensive variety of corrosive and chemical fumes and condensate.
VR-514	Air dry phenolic. Excellent for resistance to corrosive fume atmospheres and is particularly good in marine and salt air environments. Typical applications include swimming pools, waste water, marine environments and as a general maintenance coating.
UC-5500 Series	Polyurethane. Formulated as a top coat for other Heresite coatings with outstanding UV resistance with excellent weathering qualities, along with good flexibilit yand good abrasion resistance.

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HERESITE PROTECTIVE COATINGS, LLC

Chemical Synonyms

Common Name	Chemical Name
Alum	Aluminum Sulfate
Barite	Barium Sulfate
Baking Soda	Sodium Bicarbonate
Bleach	Sodium Hypochlorite
Calcite	Calcium Carbonate
Caustic	Sodium Hydroxide
Caustic Potash	Potassium Hydroxide
Chalk	Calcium Carbonate
Cupric, Cuprous	Copper II & Copper I
Dental Gas	Nitrogen I Oxide
Diuretic Salt	Potassium Acetate
Dry Ice	Carbon Dioxide
Epsom Salt	Magnesium Sulfate
Ferric, Ferrous	Iron III & Iron II
Graphite	Carbon

Common Name	Chemical Name
Laughing Gas	Nitrogen I Oxide
Lime	Calcium Oxide
Lye	Sodium Hydroxide
Magnesia	Magnesium Oxide
Methylene Bromide	Methane Dibromide
Methylene Chloride	Methane Dichloride
Muriatic Acid	Hydrochloric Acid
Potash	Potassium Carbonate
Phenol	Carbolic Acid
Phosgene	Carbonyl Chloride
Pyrite	Iron Disulfide
Soda Ash	Sodium Carbonate
Stannic, Stannous	Tin
Sulphate	Sulfate
Table Salt	Sodium Chloride

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Acetaldehyde		60ºF	A			B	NR
Acetaldehyde		100ºF	A			B	NR
Acetic Acid	5%	100ºF	LR			B	
Acetic Acid	10%	70ºF	LR	LR	B	B	NR
Acetic Acid	10%	100ºF	LR	LR	B	B	NR
Acetic Acid	10%	150ºF	B	B	B	B	NR
Acetic Acid	25%	70ºF	LR	LR	LR	B	NR
Acetic Acid	25%	150ºF	B	B	NR	B	NR
Acetic Acid	50%	100ºF	LR	LR	NR	B	NR
Acetic Acid	50%	120ºF	LR	NR	NR	B	NR
Acetic Acid	50%	150ºF	LR	NR	NR	B	NR
Acetic Acid	56%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	120ºF	B	B	NR	B	NR
Acetic Acid	100%	150ºF	B	B	NR	B	NR
Acetic Acid, Glacial		70ºF	B	B		B	
Acetic Acid, Vapors		350ºF	A	A			NR
Acetic Acid100% & ½% Sulfuric Acid		77ºF	B	B			
Acetic Anhydride	100%	70ºF	A	A		B	NR
Acetic Anhydride/ Acetic Acid (50%/50%)		175ºF		NR			
Acetone		70ºF	A	A	A	B	NR
Acetone		100ºF	A	A	B	B	NR
Acetone		134ºF	A	A	B	B	NR
Acetophenone		100ºF	A				
Acetylene		150ºF	A	A		B	B
Acid Copper Bath		150ºF				B	B
Acid-Klenz (Klenzode Products)		100ºF	A				
Acrylamide		100ºF	A				
Acrylic Latex 103-100		150ºF	A	A		B	
Acrylic Syrup		100ºF	A				
Acrylonitrile		70ºF	A	A		B	
Acrylonitrile		171ºF	A	A			
Activated Carbon, Slurry		70ºF	A				
Adipic Acid/Ethyl Alcohol 60%/40%		70ºF	A			B	
Agree® Shampoo	100%	150ºF	A	A	A		
Alcohol Mash (distillery)		210ºF	A	A		B	B
Alcolated Cresol		180ºF	A				
Alkaline Electrotinning		150ºF				B	B
Alkyl Benzene		100ºF	A			B	
Alkyl Chloroformate	100%	68ºF	A			B	
Alkylaryl Sulfonate	2%	70ºF	A	A			

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Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Alkylaryl Sulfonate	2%	100ºF	A	A			
Alkylaryl Sulfonate	100%	100ºF	A	A			
Alkylaryl Sulfonate	100%	151ºF	NR				NR
Allyl Alcohol		100ºF	A	A		B	
Allyl Chloride	100%	68ºF	A	A			
Allyl Gylcidyl Ether		70ºF	A				
Aluminum Acetate	5%	100ºF	A				
Aluminum Chloride	10%	150ºF	B	A		B	B
Aluminum Chloride	11%	120ºF	B	A		B	B
Aluminum Chloride	25%	150ºF				B	B
Aluminum Chloride	100%	70ºF	B	LR		B	B
Aluminum Chloride/Benzene	13%	70ºF	B				
Aluminum Chlorhydrate		120ºF	A	A	A	B	
Aluminum Fluoride	5%	100ºF				B	B
Aluminum Fluoride	5%	150ºF				B	B
Aluminum Nitrate	50%	70ºF	B			B	B
Aluminum Oxide (in Sulfuric Acid)		120ºF	A	A	A	B	
Aluminum Oxide (Trihydrate)		120ºF	A	A	A	B	
Aluminum Sulfate	46½%	70ºF	LR	A	A	B	B
Aluminum Sulfate	46½%	122ºF	LR	LR	A	B	B
Aluminum Sulfate	46½%	200ºF	LR			B	B
Aluminum Sulfate/Copper Sulfate		120ºF	LR	LR	A	B	
Ammonia	10%	100ºF	A			B	B
Ammonia	10%	113ºF	A			B	B
Ammonia, Aqua	29%	100ºF	A			B	NR
Ammonia, Aqua	34%	100ºF	A			B	NR
Ammonium Acetate	25%	150ºF	B	A		B	B
Ammonium Acetate	75%	200ºF		A			
Ammonium Bifluoride		140ºF	A				
Ammonium Carbonate	25%	70ºF	A				
Ammonium Chloride	33%	110ºF	A	A		B	B
Ammonium Diurinate		100ºF	A				
Ammonium Fluoride		150ºF					NR
Ammonium Hydroxide	5%	70ºF	A	A		B	NR
Ammonium Hydroxide	10%	100ºF	LR	LR	NR	B	NR
Ammonium Hydroxide	10%	150ºF	LR	LR	NR		NR
Ammonium Hydroxide	25%	70ºF	A		LR	B	NR
Ammonium Hydroxide	29%	70ºF	A	B		B	
Ammonium Hydroxide	29%	100ºF	A	NR	NR	B	NR
Ammonium Hydroxide	29%	120ºF	B	NR	NR	B	NR
Ammonium Hydroxide	30%	150ºF	B	NR	NR		NR

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Ammonium Lauryl Sulfate	100%	150ºF			NR		
Ammonium Nitrate	50%	70ºF	A	A		B	B
Ammonium Nitrate	50%	212ºF	A	A	B	B	B
Ammonium Nitrate/Urea 42%/32%		100ºF	A				
Ammonium Persulfate	45%	110ºF	B			B	B
Ammonium Phosphate, Monobasic	50%	70ºF	A			B	B
Ammonium Stearate		70ºF	A				
Ammonium Stymer Solution		70ºF	A				
Ammonium Sulfamate		70ºF	A	A			
Ammonium Sulfate, Liquid slurry		70ºF	A			B	B
Ammonium Sulfate, Liquid slurry		200ºF	A				
Ammonium Sulfate/Sodium Sulfate 6%/6%		150ºF	A				
Ammonium Sulfide	40%	100ºF	A		A	B	B
Ammonium Sulfite	50%	70ºF	A				
Ammonium Thiocyanate Solution		100ºF	A			B	B
Ammonium Thiosulfate	60%	100ºF	A	A			
Amyl Acetate	100%	70ºF	A	A		B	
Amyl Acetate	100%	100ºF	A	A	NR	B	B
Amyl Acetate	100%	150ºF	A	A	A	B	
Amyl Alcohol		70ºF	A	A	B	B	
Amyl Alcohol		150ºF	A	A		B	
Aniline		100ºF	A	A		B	B
Aniline Hydrochloride		150ºF				B	B
Aqualum (Altivia)		120ºF	LR	LR	A	B	
Aqua regia		70ºF	NR			NR	NR
Aqueous Ammonium Chloride17% & 4% MeOH		147ºF	A				
Arquad 2HT (Armour®) 75% Active		167ºF	A				
Arquad and Isopropyl Alcohol		158ºF	A				
Ascorbic Acid	10%	150ºF	A	A			
Arsenic Acid	50%	70ºF	LR				NR
Aviation Fuel		70ºF	A	A	A	B	
Boric Acid	100%	210ºF	B	A		B	B
Brake Fluid HD557		150ºF	A				
Brass Plating		150ºF					NR
Brine	6.7%	290ºF	A			B	B
Brine	12.3%	203ºF	A			B	B
Brine	12.3%	250ºF	A			B	B
Brine	29.2%	100ºF	A			B	B
Bromine	100ppm		B	B		B	
Bronze Plating		150ºF					NR
Butadiene		70°F	A			B	B

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Butadiene		150ºF	A			B	B
Butane		70ºF	A	A	A	B	B
Butane		150ºF	A	A	A	B	B
Butene		70ºF	A	A		B	
Butyl Acetate		70ºF	A	A	NR	B	NR
Butyl Acrylate		70ºF	A			B	
Butyl Alcohol	100%	150ºF	A	A	B	B	B
Butyl Cellosolve (Glycol Ether EB)		100ºF	A			B	
Butyl Phenol		210ºF	A				
Butylene		70ºF	A			B	B
1,3-Butylene Glycol		100ºF	A			B	
Butylene Oxide		100ºF	A				
Butyraldehyde	98%	70ºF	A			B	
Butyraldehyde	98%	150ºF	A			B	
Butyric Acid		70ºF	A				
Butyrolactone		70ºF	A	A		B	
Cadmium Cyanide		150ºF					B
Calcium Bisulfate		70ºF				B	B
Calcium Bisulfite		70ºF				B	B
Calcium Bromide	100%	150ºF	A	A	A	B	B
Calcium Carbonate	10%	150ºF	A	A		B	B
Calcium Carbonate	20%	200ºF	A				
Calcium Carbonate	100%	70ºF	A			B	B
Calcium Chloride	50%	70ºF	A	A		B	B
Calcium Chloride	70%	280ºF	A	A		B	B
Calcium Chloride	100%	150ºF	A	A		B	B
Calcium Cyanamide		70ºF	A			B	B
Calcium Cyanide		70ºF				B	B
Calcium Fluoride	25%	150ºF	A			B	
Calcium Hydroxide	50%	150ºF	A			B	B
Calcium Hypochlorite	30ppm	100ºF	A			NR	NR
Calcium Hypochlorite	5%	70ºF	NR			NR	NR
Calcium Lignosulfate	100%	150ºF	A		B		
Calcium Lignosulfate	100%	180ºF	A		NR		
Calcium Nitrate		150ºF				B	B
Calcium Sulfate		150ºF				B	B
Caprylic Acid	100%	70ºF	A	A	A	B	B
Caprylic Acid	100%	150ºF	A	A	B	B	
Caramel Color	100%	100ºF	A	A	A	B	B
Carbon Bisulfide		100ºF	A	A	A	B	NR
Carbon Dioxide		70ºF	A	A		B	B

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Carbon Monoxide		70ºF	A			B	B
Carbon Tetrachloride		70ºF	A	A		B	NR
Carmel		100ºF	A	A			
Casein		70ºF	A			B	B
Cashew Nut Oil		70ºF	A	A		B	B
Castor Oil		70ºF	A			B	B
CAT ® ELC (Extended Life Coolant) Concentrate CATEC-1	100%	70ºF				A	
Caustic Lime (Dehydrated)		150ºF				B	B
Caustic Potassium (Dehydrated)		150ºF				B	B
Cellosolve (Ethyleneglycol Ethylether)		100ºF	A	A		B	NR
Cherry Soda (Concentrate)		70ºF	A				
Chloric Acid	30%	100ºF	A		NR		
Chlorine, Fumes	100ppm	100ºF	B			B	LR
Chlorine, Water	0.40%	70ºF	B			B	LR
Chloral		150ºF	A				NR
Chloroaniline		70ºF	A				
Chlorobenzene (Anhydrous)		100ºF	A				
Chlorobenzene	10%	220ºF		A			
Chloroform	100%	70ºF	A	A		B	NR
Chloroform	100%	144ºF	A	A		B	NR
Chloropicrin		100ºF	A			B	B
Chlorosulfonic Acid	100%	70ºF	B	NR	NR		
Chlorotoluene		194ºF		A			
Chlorowax		100ºF	A				
Chlorox ® (See also Sodium Hypochlorite)	100%	70ºF	NR	NR	NR	NR	NR
Chocolate Syrup		70ºF	A			B	
Choline Chloride	70%	150ºF	A	A	A	B	NR
Chrome Plating Bath		150ºF					NR
Chromic Acid	10%	70ºF	B			B	B
Chromic Acid	20%	100ºF	A				
Chromic Acid	30%	70ºF	B			B	NR
Chromic Acid	50%	70ºF	B			B	NR
Citric Acid	25%	150ºF	LR	LR		B	B
Citric Acid	50%	70ºF	LR	LR		B	B
Citric Acid	50%	150ºF	LR	LR		B	B
Coal Tar		150ºF	A			B	NR
Cobalt Sulfate Solution	pH 6.0	170ºF	A				
Coca Cola Concentrate		70ºF	A	A	A		
Coconut Oil	100%	70ºF	A	A		B	B
Coconut Oil	100%	180ºF	A	A		B	B
Coke Oven Gas		150ºF	A	A		B	

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Collodion Solution		70ºF	A	A			NR
Copper Acetate	50%	70ºF	A			B	
Copper Chloride		70ºF	A			B	B
Copper Cyanide		70ºF	A			B	B
Copper Nitrate		70ºF				B	B
Copper Plating Solution		150ºF				B	B
Copper Sulfate	10%	100ºF	LR	A	B	B	B
Copper Sulfate	10%	120ºF	LR	A	B	B	B
Copper Sulfate	10%	150ºF	LR	B	B	B	B
Copper Sulfate	20%	100ºF	LR	A	A	B	B
Copper Sulfate	20%	120ºF	LR	A	A	B	B
Copper Sulfate	50%	100ºF	LR			B	B
Copper Sulfate	50%	150ºF	LR			B	B
Copper Sulfate (Anhydrous)	100%	140ºF	A	A			
Corn Mash		100ºF	A	A		B	B
Corn Oil (Mazola®)		70ºF	A			B	B
Corn Oil		180ºF	A			B	B
Corn Syrup	100%	70ºF	A	A	A	B	
Corn Syrup	100%	150ºF	A	A	A	B	
Cottonseed Oil		150ºF	A			B	B
Creosote		150ºF	A	A		B	NR
Cresol	100%	150ºF	A	A		B	NR
Crotonaldehyde	100%	70ºF	A			B	
Crude Oil		150ºF	A			B	B
Crude Oil @ 650PSI		200ºF	A			B	
Cyanide Cadmium Bath		100ºF				B	B
Cyanide Plating		100ºF				B	B
Cyanide Zinc		100ºF				B	B
Cyclobutane		55ºF	A			B	B
Cyclohexane		70ºF	A			B	B
Cyclohexanone		100ºF	A			B	NR
Cyclohexene		70ºF	A			B	B
Cyclopropane		70ºF	A			B	B
Dawn® Dish Soap	100%	150ºF	A				
Decon-Clean®	100%	70ºF				A	B
Decon-Quat®	100%	70ºF				A	B
Decyl Alcohol		70ºF	A			B	B
Dextrose		150ºF	A	A		B	B
Diacetone Alcohol	100%	70ºF	A	A	A	B	B
Diacetone Alcohol	100%	100ºF	A	A	A	B	B
Diacetone Alcohol	100%	120ºF	A	A	A	B	B

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Diacetone Alcohol	100%	131ºF	A	A	A	B	B
Diallyl Amine		70ºF	A				
Dibutyl Maleate		70ºF		A			
Dibutylphthalate		70ºF	A			B	
Dichloroacetic Acid	25%	70ºF		A			
O-Dichlorobenzene		100ºF	A			B	
Diesel Fuel	100%	60ºF	A	A	A	B	B
Diesel Fuel	100%	120ºF	A	A	A	B	B
Diethanolamine	100%	125ºF	A				
Diethanolamine	100%	150ºF	LR				
Diethanolamine	100%	350ºF	NR				
Diethyl Phthalate	100%	176ºF	A				
Diethyl Sulfate		100ºF	A				
Diethylene Glycol	50%	70ºF	A			B	
Diethylene Glycol	100%	100ºF	A			B	
Diethylene Glycol Monobutyl Ether (Glycol Ether DB)		100ºF	A			B	
Diethylenetriamine		70ºF	A	A			
Difluorophosphoric Acid		70ºF	NR				
Dihydrogenated Tallow Dimethylammonium Chloride		167ºF	A				
Dimethyl Ethanolamine (tech grade)		70ºF	A				
Dimethyl Phthalate		70ºF	A			B	B
Dimethyl Propane		70ºF	A			B	
Dimethyl Sulfoxide (DMSO)		70ºF	A				
Dimethyl Sulfoxide (DMSO)		302ºF	NR				
Dimethylamine		100ºF	A				NR
Dimethylamine (Anhydrous)		100ºF	A				NR
Dimethylformamide		70ºF	A				
Dioctyl Adipate		100ºF	A				
Dioctyl Phthlate Monomeric		100ºF	A	A			
Dioctyl Phthlate Monomeric		140ºF	A	A			
Diphenol Amine		150ºF	A				
Dipropylene Glycol	5%	100ºF	A	A		B	
Dipropylene Glycol	100%	150ºF	A	A		B	
Dipropylene Glycol Monomethyl ether (DPM)		100ºF	A	A		B	
Disodium Phosphate	5%	70ºF	A	A			B
Dodecylbenzene Sulfonate		125ºF	A			B	B
Dodecylbenzene Sulfonate (Anhydrous)		125ºF	A				
Dolchem®	100%	150ºF	A				
Dow® heavy duty oven cleaner	100%	70ºF	LR	NR	A		
Dow® heavy duty oven cleaner	100%	100ºF	NR	NR	B		
Dowtherm		70ºF				B	B

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Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Emulsion asphalt	100%	70ºF					NR
Epichlorohydrin		100ºF	A				
Ethane	100%	70ºF	A	A		B	B
Ethanol Amine		70ºF		A			
Ethyl Acetate	100%	100ºF	A	A	A	B	NR
Ethyl Acetate	100%	120ºF	A	A	A	B	NR
Ethyl Acetate	100%	150ºF	A	A	A	B	NR
Ethyl Acetate	100%	171ºF	A	A		B	NR
Ethyl Acetoacetate		70ºF	A	A			
Ethyl Acrylate		70ºF	A			B	
Ethyl Alcohol (Ethanol)	50%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	50%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	77%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	95%	70ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	150ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	97%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	100%	173ºF	A	A		B	B
Ethyl Amide	70%	70ºF	A				NR
Ethyl Amide (Anhydrous)	100%	70ºF	A				NR
Ethyl Chloride	100%	70ºF	A	A		B	
Ethyl Chloride	100%	150ºF	A	A		B	
Ethyl Ether (fumes)		70ºF	A			B	NR
Ethyl Ether (fumes)		94ºF	A			B	NR
2-Ethyl Hexacrylate		100ºF	A			B	B
2-Ethyl Hexenol		100ºF	A			B	
Ethyl Silicate Conc.		100ºF	A				
Ethylene Bromide	100%	176ºF	A			B	
Ethylene Chloride		100ºF	A	A		B	
Ethylene Chlorohydrin		100ºF	A	A		B	
Ethylene Chlorohydrin	100%	194ºF		A			
Ethylenediamine		70ºF	A	A			
Ethylenediaminetetracetic Acid (EDTA)	40%	70ºF	A				
Ethylene Dichloride		100ºF	A			B	
Ethylene Glycol	100%	70ºF	A	A	A	B	B
Ethylene Glycol	100%	120ºF	A	A	A	B	B
Ethylene Glycol	100%	150ºF	A	A		B	B
Ethylene Glycol Monomethyl Ether Acetate		100ºF	A			B	
Ethylene Oxide		100ºF	A				NR
Fatty Acid (Coconut)		180ºF	A			B	B
Fatty Acid (Cotton)		180ºF	A			B	B

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Fatty Acid (Oleic)		180ºF	A			B	B
Fatty Acid (Soya)		180ºF	A			B	B
Ferric Ammonium Citrate Solution		100ºF	A				
Ferric Chloride	10%	150ºF	A	A	A	B	B
Ferric Chloride	50%	70ºF	A	A	A	B	B
Ferric Chloride	50%	150ºF	A	A	A	B	B
Ferric Nitrate		150ºF				B	B
Ferric Sulfate		150ºF	A				B
Ferrous Sulfate	10%	150ºF	A	A		B	B
Ferrous Sulfate	25%	150ºF				B	B
Ferrous Sulfide	10%	150ºF	A	A			
Ferrous Sulfate/Hydrochloric Acid 50%/20%		100ºF	B				
Finesse® Shampoo	100%	150ºF	A	A	A		
Fish Oil		180ºF	A			B	B
Floorstar® TFRII	Conc.	150ºF	NR	NR	NR		
Fluosilic Acid		150ºF					NR
Formaldehyde	0.17%	150ºF	A			B	B
Formaldehyde & Methyl Alcohol (37%-7%)		70ºF	A	A	A	B	B
Formaldehyde & Methyl Alcohol (37%-7%)		150ºF	A	A	B	B	B
Formaldehyde (unstabalized)	44%	130ºF	A			B	B
Formaldehyde	50%	150ºF	A		B	B	B
Formic Acid	10%	70ºF	LR	LR		B	NR
Formic Acid	10%	150ºF	LR				NR
Formic Acid	90%	100ºF	NR				NR
Formic Acid	100%	70ºF	B			B	NR
Formic Acid	100%	125ºF	NR				NR
Freon		100ºF	A	A		B	NR
Fruit Juice		100ºF	A	A		B	B
Fuel Oil		100ºF	A	A		B	B
Fumaric Acid	10%	212ºF	A	A			
Furan		90ºF	A			B	
Furfuryl Alcohol		70ºF	A	A	A	B	
Furfurylamine		70ºF	A				
Gallic Acid		100ºF				B	B
Gasoline, Aviation		70ºF	A	A	A	B	B
Gasoline, Leaded		100ºF	A	A	A	B	B
Gasoline, Unleaded	100%	70ºF	A	A	A	B	B
Gasoline, Unleaded	100%	150ºF	A	A	A	B	B
Gasoline, White		70ºF	A	A	A	B	B
Gelatin		100ºF	A	A		B	B
Gluconic Acid	50%	100ºF	A				

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Glucose		70ºF	A			B	B
Glycidyl Phenylether		70ºF	A			B	
Glycerine		70ºF	A			B	B
Glycerine		200ºF	A			B	B
Glycolic Acid (Hydroxyacetic Acid)	70%	140ºF	A				
Glycols	30%	70ºF	A			B	B
Green Liquor		150ºF	LR			B	B
Heptane		100ºF	A	A		B	B
Heptanoic Acid		70ºF	A				
Hevea® Latex Type k5		70ºF	A			B	B
Hexane		150ºF	A	A			B
Hexane		350ºF	A	A			
1,6-Hexandiol		150ºF	A	A	A	B	B
Hexametaphosphate		100ºF	A				
Hexamethylenetetramine		150ºF	A	A	B		NR
Hilex® Bleach (See Sodium Hypochlorite)		70ºF	NR			NR	NR
Hydraulic Fluid (Houghtosafe 1120)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 56/60)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 620)		140ºF	A			B	
Hydraulic Fluid (skybtul)		50ºF	A			B	
Hydraulic Fluid (skybtul)		150ºF	A			B	
Hydrazine		100ºF	B			NR	
Hydrobromic Acid	2½%	70ºF	B	B	B	B	NR
Hydrobromic Acid	5%	70ºF	B	B	B	B	NR
Hydrobromic Acid	10%	150ºF	B	B	B	B	NR
Hydrobromic Acid	12½%	70ºF	B	B	LR	B	NR
Hydrobromic Acid	15%	70ºF	NR	LR	LR	B	NR
Hydrobromic Acid	20%	70ºF	NR				NR
Hydrobromic Acid	25%	70ºF	NR				NR
Hydrobromic Acid	30%	150ºF	NR			NR	NR
Hydrobromic Acid	48%	150ºF	NR	NR	NR	NR	NR
Hydrochloric Acid	2½%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	5%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	10%	70ºF	B	B		B	B
Hydrochloric Acid	10%	100ºF	B	B	B	B	B
Hydrochloric Acid	10%	150ºF	NR				B
Hydrochloric Acid	12½%	70ºF				B	B
Hydrochloric Acid	15%	70ºF				B	B
Hydrochloric Acid	20%	70ºF	B			B	B
Hydrochloric Acid	20%	100ºF	B			B	B
Hydrochloric Acid	20%	185ºF	NR				NR

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Hydrochloric Acid	30%	100ºF	B			NR	B
Hydrochloric Acid	30%	150ºF	NR				NR
Hydrochloric Acid	37%	70ºF					NR
Hydrochloric Acid	37%	150ºF	NR		NR		NR
Hydrocyanic Acid		100ºF					B
Hydrofluoric Acid	2%	70ºF				B	
Hydrofluoric Acid	10%	70ºF	NR				NR
Hydrofluoric, Vapors		212ºF	NR				NR
Hydrofluorosilic Acid	29%	100ºF	B				NR
Hydrogen Gas		70ºF	A	A		B	B
Hydrogen Gas		350ºF		A			
Hydrogen Peroxide	1%	70ºF				B	
Hydrogen Peroxide	30%	374ºF		B		NR	NR
Hydrogen Peroxide	90%	150ºF	NR	NR		NR	NR
Hydrogen Sulfide	3%	70ºF	A		NR	B	B
Hydrogen Sulfide	5%	210ºF	A		NR		
Hydroquinone		70ºF	A				
Hydroxyacetic Acid		77ºF	A	A			
Hydroxyacetic Acid		100ºF	A				
Hypochloric Acid		70ºF	NR			NR	NR
Hyposulfite		100ºF				B	B
Ink		100ºF	A	A		B	B
Insecticide Bidrin 8 (Amvac)	Conc.	70ºF	A		A		
Insecticide CDMAA (Amvac)	Conc.	70ºF	A	A	A		
Insecticide Naled (Amvac)	Conc.	70ºF	A	A	NR		
Insecticide Nifs T (Monsanto)		100ºF	A				
Iodine		75ºF	A			B	
Iron Pickle Liquor		150ºF				B	B
Iron Sulfate		100ºF	A	A		B	B
Iso-par (Isoparaffinic material)		140ºF	A				
Isobutane		70ºF	A			B	B
Isobutylaldehyde		70ºF	A			B	
Isobutyl Alcohol		70ºF	A			B	B
Isobutyl Alcohol/Formaldehyde 60%/40%		100ºF	A				
Isooctyl Alcohol		70ºF	A			B	B
Isophorone		70ºF	A			B	
Isopropyl Alcohol		70ºF	A	A		B	B
Isopropyl Alcohol		150ºF	A	A	A	B	B
Isopropyl Acetate		70ºF	A	A		B	
Isopropyl Acetate		200ºF	A	A			
Jet Fuel		70ºF	A	A		B	B

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Jet Fuel		100ºF	A	A		B	B
Jet Fuel JP-5		120ºF	A	A		B	B
Joy® Dish Soap		150ºF	A		A		
Kaboom®		120ºF	LR	LR	A	B	
Karo Syrup		70ºF	A	A	A	B	B
Kelvar		140ºF	A				
Kerosene		100ºF	A	A		B	B
Kopper Star Distillate		140ºF	A				
Lacquor		100ºF	A			B	NR
Lacquor Solvent		100ºF	A			B	NR
Lactic Acid	10%	140ºF	LR	LR		B	B
Lactic Acid	22%	100ºF	A				
Lactic Acid	100%	100ºF	A	A		B	B
Lanoline® Lotion Shampoo Concentrate		70ºF	A				
Lard		70ºF	A				
Latex		100ºF	A			B	B
Latex #512K (Dow®)		70ºF	A			B	B
Latex GR-S Type 3		77ºF	A	A		B	B
Latex Rubber		70ºF	A			B	B
Leachate Solution (Sour Water)		150ºF					
Lead Acetate	10%	150ºF	A	A		B	
Levulinic Acid		77ºF	A				
Lignin Sulfate		100ºF	A				
Lime (Chopped)		100ºF	A				
Linoleic Acid		100ºF	A			B	B
Lithium Chloride		70ºF	LR			B	B
LP Gas		100ºF	A	A		B	
LpHst (Steris product)	100%	70ºF				A	
LpHst (Steris product)	0.01%	70ºF				A	
Lube Oil (Pennzoil 10W30)		150ºF	A	A	A	B	B
Lubricating Oil		70ºF	A	A	A	B	B
Lubricating Oil		182ºF	A	A		B	B
Lysol®		70ºF	A				
Magnesium Carbonate		150ºF	A			B	B
Magnesium Chlorate		150ºF				B	B
Magnesium Chloride	40%	100ºF	A	A		B	B
Magnesium Chloride	5%	70ºF				A	
Magnesium Chloride	50%	70ºF	A			B	B
Magnesium Hydroxide Slurry		150ºF	A		A	B	B
Magnesium Nitrate		150ºF				B	B
Magnesium Oxide	20%	70ºF	A			B	B

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Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Magnesium Sulfate		100ºF	A			B	B
Magnesium Sulfate		150ºF	A			B	B
Maleic Acid	50%	70ºF	A			B	B
Maleic Anhydride		100ºF	A				
Maleic Anhydride		250ºF	A				
Malic Acid		100ºF	LR			B	B
Manganese Ammonium Sulfate		100ºF				B	B
Manganese Chloride		100ºF	A	A		B	B
Manganese Sulfate		150ºF	A			B	B
Martan B® liquid (Marathon Oil)		100ºF	A				
Mayonnaise		150ºF	A		A		
MEK Peroxide (45% in Dimethyl Phthalate)		70ºF	A	B	NR	B	NR
Melamine		70ºF	NR	NR			
Melamine Resin Solution		100ºF	A			B	B
Mercuric Chloride		100ºF	A	A		B	B
Methyl Acetate	96%	100ºF	A			B	NR
Methyl Acrylate		100ºF	A	A		B	
Methyl Alcohol	100%	70ºF	A	A	A	B	B
Methyl Alcohol	100%	120ºF	A	A	A	B	B
Methyl Alcohol	100%	148ºF	A	A	B	B	B
Methyl Butane		100ºF	A			B	B
Methyl Cellosolve (Glycol EM)		70ºF	A	A	B	B	
Methyl Cellosolve (Glycol EM)		120ºF	A	A	B	B	NR
Methyl Chloride		100ºF	A			B	NR
Methyl Chloride		150ºF	A			B	NR
Methyl Ether		50ºF	A			B	NR
Methyl Ethyl Ketone	100%	100ºF	A	A	B	B	NR
Methyl Ethyl Ketone	100%	150ºF	A	A		B	NR
Methyl Fluoride		150ºF	A			B	NR
Methyl Isobutyl Carbinol		70ºF	A			B	
Methyl Isobutyl Ketone (MIBK)		70ºF	A	A		B	NR
Methyl Mercaptan		70ºF	A				
Methyl Methacrylate		100ºF	A	A	NR	B	
Methyl Propane		70ºF	A			B	B
Methylene Bromide		100ºF	A	A			
Methylene Chloride	100%	77ºF	A	A		B	NR
Methylene Chloride	100%	100ºF	A	A		B	NR
Methylene Chloride	100%	113ºF	A	A		B	NR
Methylene Chlorobromide		70ºF	A			B	NR
Methylene Diisocyanate		100ºF	A				
n-Methylpyrolidone	100%	275ºF	A			B	

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Milk (condensed)		70ºF	A			B	B
Milk (whey)		150ºF	A			B	B
Mineral Oil		70ºF	A	A		B	B
Mineral Spirits		150ºF	A	A	A	B	B
Molasses	100%	70ºF	A	A		B	B
Molasses		110ºF	A	A		B	B
Monochloroacetic Acid		100ºF	A				
Monochloropinacolone (MCP)		75ºF	A				
Monochloropinacolone (MCP)		100ºF	A				
Monoethanolamine		100ºF	NR				NR
Monofluorophosphoric Acid		70ºF	B	B			NR
Morpholine		150ºF	A				
Mustard		150ºF	A		NR		
Nalco ® 2000 / Nalcool 2000 / Nalfleet 2000	100%	70ºF				A	
Naphthalene (sulfonated)		150ºF	A			B	B
Naphtha		150ºF	A	A	A	B	B
Naphthenic Acid		100ºF	A	A		B	B
Naphthenic Acid	95%	180ºF	A	A			
1-Naphthol-4-Sulfonic Acid	7.5-8.0pH	158ºF	A			B	B
Natural Gas		100ºF	A			B	B
Neatsfoot Oil		150ºF	A	A		B	B
Neatsfoot Oil		250ºF	A	A		B	B
Nickel Acetate	50%	70ºF	A			B	B
Nickel Chloride	50%	70ºF	A			B	B
Nickel Nitrate		150ºF				B	B
Nickel Plating Solution (electroless)		212ºF	B	A			
Nickel Plating Solution		374ºF	B		B	B	B
Nickel Salts		150ºF				B	B
Nickel Sulfate		150ºF				B	B
Nitric Acid	1%	70ºF	LR	A	B	B	NR
Nitric Acid	2%	185ºF	LR		B		NR
Nitric Acid	5%	70ºF	LR	LR	LR	B	
Nitric Acid	5%	120ºF	LR	B	B		NR
Nitric Acid	10%	100ºF			NR	B	NR
Nitric Acid	10%	140ºF	NR	NR	NR	B	NR
Nitric Acid	10%	150ºF	NR	NR	NR	B	NR
Nitric Acid	10%	185ºF	NR	NR	NR		NR
Nitric Acid	15%	150ºF	NR	NR	NR		NR
Nitric Acid	25%	70ºF	B			B	NR
Nitric Acid	25%	100ºF	NR	NR	NR		NR
Nitric Acid	25%	150ºF	NR	NR	NR		NR

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Nitric Acid	50%	100ºF	NR	NR	NR		NR
Nitric Acid	70%	100ºF	NR	NR	NR		NR
Nitrobenzene		100ºF	A	A		B	NR
Nitrobenzenesulfonic Acid		100ºF	A	A			
o-Nitrochlorobenzene		180ºF	A			B	
p-Nitrochlorobenzene		100ºF	A			B	B
Nitrogen		100ºF	A	A		B	B
Nitrogen		300ºF	A	A			
Nitrophenol		250ºF	A	A	NR	B	NR
1-Nitropropane		70ºF	A			B	B
Nonylphenol		100ºF	A			B	
Nonylphenol		180ºF	A			B	
n-Octyl Alcohol		70ºF	A			B	B
Nu-Calgon Evap Pow'r-C	100%	70ºF				A	LR
Nu-Calgon Evap-Green	100%	70ºF				A	LR
Nu-Calgon Green Clean	100%	70ºF				A	LR
Nu-Calgon Cal-Green	100%	70ºF				A	LR
Nu-Calgon Tri-Pow'r HD	100%	70ºF				A	LR
Nu-Calgon TriClean 2x	100%	70ºF				A	LR
Nu-Calgon Nu-Solve NR	100%	70ºF				A	LR
p-t-Octyl Phenol		250ºF	A				
Oil, Cutting		140ºF	A			B	B
Oil, water soluble		70ºF	A			B	
Oleic Acid		70ºF	A			B	B
Oleic Acid		250ºF	A				
Oleomargarine		70ºF	A				
Oleum		100ºF	B				NR
Olive Oil		70ºF	A			B	B
Orange Concentrate		70ºF	A			B	
Orange Soda Concentrate		70ºF	A			B	
Oxalic Acid		70ºF	A			B	B
Oxalic Acid		160ºF	A			B	
Oxygen		70ºF	A	A		B	B
Ozone			NR	NR		NR	
Palm Oil		70ºF	A	A		B	B
Palm Oil		150ºF	A	A		B	B
Palm Oil (Crude)		250ºF	A	A		B	NR
Palmitic Acid		200ºF	A			B	B
Palmolive® Dish soap		150ºF	A				
Paraformaldehyde	50%	150ºF	A			B	
Paraldehyde		70ºF	A			B	

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Peanut Butter		70ºF	A	A			
Peanut Oil		70ºF	A				
1,3-Pentadiene		100ºF	A			B	B
Pepper		70ºF	A			B	
Pepperoni						NR	
Perchloric Acid	20%	70ºF		B			NR
Perchloroethylene		200ºF	A			B	NR
Phenol	3%	70ºF	A			B	NR
Phenol	5%	150ºF	A				
Phenol	50%	150ºF	A	A			
Phenol	90%	100ºF	A	A			NR
Phenol	90%	150ºF	A	A			NR
Phenol	100%	150ºF	A	A			NR
Phenylenediamine	50%	70ºF	A				
Phenylhydrazine		70ºF	B				
1-Phenyl-2-methyl-1,2-propanediamine		70ºF	A				
Phosphoric Acid	10%	70ºF	B		B	B	B
Phosphoric Acid	10%	150ºF	B	B		B	B
Phosphoric Acid	25%	100ºF	B	B	B		
Phosphoric Acid	25%	150ºF	B	B			
Phosphoric Acid	50%	150ºF	NR	NR			
Phosphoric Acid	75%	100ºF			B		
Phosphoric Acid	75%	150ºF	NR	NR			
Phosphoric Acid	85%	70ºF	B			B	B
Phosphorus Oxychloride		70ºF	A				
Phosphorus Trichloride		70ºF	A				NR
Phthalic Acid	90%	70ºF	A				
Phthalic Anhydride	80%	70ºF	A				
Phthalic Anhydride, Concentrated (Mother Liquor)		100ºF	A				
Phthalic Anhydride, molten		347ºF	A				
Pickling Acid, sulfuric		150ºF				B	B
Picric Acid		70ºF				B	B
Pine Oil		70ºF	A	A	A	B	B
Pine Oil		100ºF	A	A	A	B	B
Polyaluminum Chloride		70ºF	A				
Polyethylate Nonylphenol	70%	100ºF	A			B	
Polyethylene Glycol		100ºF	A			B	
Polyols		100ºF	A				
Polyvinyl Acetate Emulsion		70ºF	A	A		B	
Polyvinyl Chloride Pellets		70ºF					
Potassium Acetate	25%	150ºF	A	A	A	B	B

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Potassium Bicarbonate		150ºF				B	B
Potassium Bisulfate		100ºF				B	B
Potassium Bromate	7%	70ºF	A	NR	A	B	NR
Potassium Bromate	7%	150ºF	B	NR	A	B	NR
Potassium Bromide	10%	150ºF	A	A	A	B	B
Potassium Bromide	100%	70ºF	A			B	B
Potassium Carbonate	10%	150ºF	B	B		B	B
Potassium Chloride	10%	70ºF	A	A	A	B	B
Potassium Chloride	10%	150ºF	A	A	A	B	B
Potassium Chloride	25%	150ºF	A	A	A	B	B
Potassium Chloride	100%	70ºF	A			B	B
Potassium Chromate	10%	150ºF	A	A		B	
Potassium Cuprocyanide		100ºF				B	B
Potassium Cyanate		150ºF				B	B
Potassium Dichromate	10%	150ºF	A	A		B	B
Potassium Ferricyanide	25%	150ºF	A	A		B	B
Potassium Ferrocyanide		70ºF	A			B	B
Potassium Fluoride		70ºF	A			B	B
Potassium Hydroxide	10%	100ºF	NR			NR	NR
Potassium Hydroxide	10%	150ºF	NR				
Potassium Hydroxide	50%	70ºF	NR	NR		B	NR
Potassium Hydroxide	50%	150ºF	NR	NR		NR	NR
Potassium Hypochlorite		100ºF	NR			NR	NR
Potassium Iodide	25%	150ºF	A	A	B	B	B
Potassium Nitrate	50%	70ºF	A			B	B
Potassium Nitrite		150ºF					B
Potassium Oleate		150ºF	A				
Potassium Permanganate		70ºF	B			B	B
Potassium Persulfate		150ºF				B	B
Potassium Phosphate		100ºF	A			B	B
Potassium Sulfate		150ºF	A			B	B
Potassium Sulfide		150ºF				B	B
Potassium Thiosulfate		100ºF				B	B
Propane		100ºF	A	A		B	B
Proprionaldehyde		70ºF	A			B	
Proprionic Acid		70ºF	LR				
n-Propyl Acetate		70ºF	A	A		B	
n-Propyl Alcohol	100%	70ºF	A	A		B	B
n-Propyl Alcohol		100ºF	A	A		B	B
n-Propyl Alcohol		150ºF	A	A		B	B
Propylene		100ºF	A			B	B

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Propylene Glycol		100ºF	A	A		B	
Propylene Glycol Monomethyl Ether (PM)		150ºF	A	A	NR	B	
Propylene Oxide		70ºF	A				
Propylenediamine		70ºF	A				NR
Pro-Red +	10%	70ºF				NR	
Prune Juice		100ºF	A			B	B
Pyridine		100ºF	A			B	
Pyrogallic Acid		70ºF				B	B
Quaternary Ammonium Chlorides		100ºF	A				
Rapeseed Oil		70ºF	A	A		B	B
Rocadyna (PVP)		150ºF	A		NR		
Rochelle Salts		100ºF	A			B	B
Rosin (wood)		388ºF	A			B	B
Rubber Latex		77ºF	A			B	
Sake Wine		100ºF	A	A		B	
Salicylic Acid	10%	150ºF	A	A		B	B
Salomi		70ºF				NR	
Saturated Lime & Calcium		374ºF		NR			
Sauve® shampoo	100%	70ºF	A				
Scale Gone 70 (MEC Corporation)	17%	150ºF	A	A			
Silicic Acid		100ºF				B	B
Silver Nitrate	20%	150ºF	A	A	B	B	B
Silver Plating Solution		150ºF				B	B
Sodium Acetate	25%	70ºF	A	A	A	B	B
Sodium Acetate	25%	150ºF	A	A	A	B	B
Sodium Acetate	50%	150ºF	A	A	A	B	B
Sodium Aluminate		100ºF				B	B
Sodium Bicarbonate		150ºF	B			B	B
Sodium Bisulfate	10%	150ºF	A			B	B
Sodium Bisulfate	25%	150ºF	A	NR		B	B
Sodium Bisulfide		100ºF				B	B
Sodium Bisulfite	25%	150ºF	A	A		B	B
Sodium Borate		100ºF	A			B	B
Sodium Bromide		150ºF	A			B	B
Sodium Carbonate	10%	176ºF	A	B	A	B	B
Sodium Carbonate	15%	185ºF	A		A		
Sodium Carbonate	20%	140ºF	A			B	B
Sodium Carbonate	50%	70ºF	A			B	B
Sodium Carbonate	99%	100ºF	A			B	B
Sodium Chlorate	46%	120ºF	NR	NR	A		
Sodium Chlorate	50%	70ºF	A	LR	A	B	B

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Sodium Chlorate	50%	120ºF	LR	LR	A		
Sodium Chloride	5%	70ºF				A	
Sodium Chloride	5%	150ºF	A	A		B	B
Sodium Chloride	20%	77ºF	A	A		B	B
Sodium Chloride	20%	200ºF	A				
Sodium Chloride	40%	200ºF	A			B	B
Sodium Chlorite		100ºF	B			B	B
Sodium Chlorite	25%	120ºF	NR	NR	NR	NR	NR
Sodium Chromate	50%	70ºF	A			B	B
Sodium Cyanide	20%	100ºF	B			B	B
Sodium Dichromate		100ºF	B			B	B
Sodium Ferricyanide		100ºF				B	B
Sodium Fluoride	25%	122ºF	A	A		B	NR
Sodium Fluoride	25%	150ºF	A	A		B	NR
Sodium Formate	22%	180ºF	A			B	
Sodium Formate	48%	150ºF	A				
Sodium Formate	50%	250ºF				B	
Sodium Hydrosulfide (Sodium Bisulfide)		100ºF				B	B
Sodium Hydroxide	½%	176ºF	A	B	A		NR
Sodium Hydroxide	1%	100ºF			A	NR	NR
Sodium Hydroxide	2%	77ºF		B	A	B	NR
Sodium Hydroxide	2%	176ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	8%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	70ºF	NR	NR		B	NR
Sodium Hydroxide	10%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	120ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	150ºF	NR	NR		NR	NR
Sodium Hydroxide	10%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	20%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	20%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	25%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	28%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	30%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	50%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	73%	160ºF	NR	NR	B	NR	NR

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Sodium Hydroxide	73%	250ºF	NR	NR		NR	NR
Sodium Hydroxide	75%	150ºF	NR	NR		NR	NR
Sodium Hypochlorite (Bleach)	5%	70ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	100ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	140ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite (Bleach)	5½%	150ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	12½%	70ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	15%	70ºF	NR	NR		NR	
Sodium Hypophosphite	5%	70ºF	A				
Sodium Metaphosphate	5%	70ºF	A				
Sodium Metaphosphate	12½%	100ºF	A				
Sodium Nitrate		100ºF	A			B	B
Sodium Nitrite		150ºF				B	B
Sodium Oleate		100ºF	A			B	B
Sodium Permanganate		150ºF				B	B
Sodium Peroxide		100ºF	B			B	B
Sodium Phosphate	50%	70ºF	B			B	B
Sodium Polyacrylate		70ºF	A				
Sodium Propionate	20%	70ºF	A			B	
Sodium Silicate		150ºF	A			B	B
Sodium Sulfate	10%	150ºF	A	A	A	B	B
Sodium Sulfate	25%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	200ºF	A	A	A	B	B
Sodium Sulfate Nickle Pickling Solution		150ºF				B	B
Sodium Sulfhydrate		100ºF	A				
Sodium Sulfite	10%	150ºF	A	A	A	B	B
Sodium Sulfite	10%	180ºF	A	A	A	B	B
Sodium Sulfite	25%	150ºF	A	A	A	B	B
Sodium Thiocyanate	10%	70ºF	LR				
Sodium Thiocyanate	50%	70ºF	LR				
Sodium Thiosulfate	10%	150ºF	A	A	A	B	B
Sodium Thiosulfate	30%	100ºF	A	A	A	B	B
Sodium Thiosulfate	30%	120ºF	A	A	A	B	B
Sodium ThioSulfate	30%	150ºF	A	A	A	B	B
Sodium Toluene Sulfonate	40%	100ºF	A				
Sodium Xylene Sulfonate		100ºF	NR				
Solo® Laundry detergent	100%	150ºF	B		NR		
Sorbitol	conc.	100ºF	A	A		B	
Soya Oil		180ºF	A			B	B
Soybean Hydrase		70ºF	A	A	A	B	

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Soybean Hydrase		150ºF	A	A	A	B	
Soysauce	100%	150ºF	A		A		
Sparkle	100%	70ºF				A	
Spor-Klenz®	1%					A	B
Spor-Klenz®	100%					A	
Stannic Chloride		100ºF	B			B	B
Stannous Chloride		100ºF				B	B
Starch		150ºF	A	A		B	B
Steam		225ºF	A	A	NR	B	NR
Steam		250ºF	A	A	NR	B	NR
Steam		290ºF	A	A	NR		NR
Stearic Acid	90%	160ºF	A	A		B	B
Stoddard Solvent		150ºF	A	A		B	B
Strawberry Preserves		70ºF	A				
Styrene		70ºF	A				
Styrene Butadiene Latex (pH 7-9)		140ºF	A	A			
Sugar Mixture		70ºF	A			B	B
Sulfamic Acid	20%	70ºF	A			B	B
Sulfamic Acid	50%	70ºF	A			B	B
Sulfur	100%	300ºF	A		B	B	NR
Sulfur Chloride		100ºF					NR
Sulfur Dioxide		150ºF	A			B	LR
Sulfur Trioxide		100ºF					NR
Sulfuric Acid	5%	70ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	100ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	120ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	150ºF	B	LR	B	B	B
Sulfuric Acid	10%	77ºF	B	NR	B	B	
Sulfuric Acid	10%	100ºF	B	NR	B		
Sulfuric Acid	10%	120ºF	B	NR	B	B	B
Sulfuric Acid	10%	150ºF	B	NR	B	B	
Sulfuric Acid	15%	185ºF	B	NR			
Sulfuric Acid	20%	70ºF	B	LR	LR	B	B
Sulfuric Acid	20%	150ºF	B	B	B	B	
Sulfuric Acid	25%	70ºF	B			B	
Sulfuric Acid	25%	100ºF	B	B		B	
Sulfuric Acid	25%	150ºF	B	B		B	
Sulfuric Acid	25%	300ºF	B	B			
Sulfuric Acid	30%	70ºF	B			B	B
Sulfuric Acid	30%	100ºF	B	B	B	B	
Sulfuric Acid	30%	150ºF	NR	NR			

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Sulfuric Acid	50%	70ºF	LR		B	B	B
Sulfuric Acid	50%	150ºF	LR			B	B
Sulfuric Acid	70%	70ºF	A			B	B
Sulfuric Acid	70%	100ºF	A			B	B
Sulfuric Acid	70%	150ºF	B	B		B	B
Sulfuric Acid	75%	70ºF	A				
Sulfuric Acid	75%	100ºF	A			B	B
Sulfuric Acid	75%	150ºF	LR			B	B
Sulfuric Acid	92%	100ºF	A				NR
Sulfuric Acid	96%	100ºF	A				
Sulfuric Acid	98%	70ºF	A	B		B	NR
Sulfuric Acid	98%	120ºF	A				NR
Sulfuric Acid	98%	150ºF	B				NR
Sulfuric Acid	98%	180ºF	NR				NR
Sulfuric Acid	100%	100ºF	LR	NR	NR		NR
Sulfuric Acid	100%	150ºF	LR	NR			NR
Sulfuric Acid/Chromic Acid 6%/5%		100ºF	NR				
Sulfuric Acid/Nitric Acid 64%/0.1%		100ºF	NR				
Sulfurous Acid	15%	200ºF	A				
Sulfurous Acid	100%	100ºF				B	NR
Surfactants		100ºF				B	B
Tall Oil		70ºF	A			B	B
Tall Oil		180ºF	A			B	B
Tallow (crude)		150ºF	A			B	B
Tannic Acid	10%	200ºF	A				
Tannic Acid	100%	100ºF	A			B	B
Tar		150ºF	A			B	B
Tartaric Acid	30%	200ºF	A				
Tartaric Acid	100%	100ºF				B	B
Tetrachloroethane		200ºF	A	A		B	NR
Tetraethylenepentamine		70ºF	A				
Tetrafluoroethylene		150ºF	A		A	B	NR
Tetrahydrofuran		70ºF	A			B	
Tetrahydrofuran		151ºF	A	A		B	
Thioglycolic Acid	97%	70ºF	A	A			
Thioglycolic Acid	97%	150ºF	LR	LR	NR		
Thiols		70ºF	A				
Tide® Laundry detergent	100%	70ºF	A				
Tide® Laundry detergent	100%	150ºF	A		NR		
Tin Immersion Dip		150ºF			NR		B
Tin Tetrachloride	50%	70ºF	A		A	B	NR

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Titanium Dioxide		100ºF	A.				
Titanium Tetrachloride		100ºF	NR	NR			
Toluene	100%	70ºF	A	A	B	B	NR
Toluene	100%	100ºF	A	A	B	B	NR
Toluene	100%	230ºF	A	A	B	B	NR
Toluene Diisocyanate (TDI)		100ºF	A	A			
Toluenesulfonamide/formaldehyde resin	100%	150ºF	A	A	A		
Tomato Paste, no salt (Hunts®)	100%	150ºF			A		
Tomato Puree (Hunts®)	100%	150ºF			A		
Toxaphene	100%	194ºF	A				
Toxaphene	100%	212ºF	A	LR			
Transformer Oil		70ºF	A				
Tributyl Phosphate		70ºF	A				
1,1,1 Trichloroethane		70ºF	A	A			
1,1,1 Trichloroethane		165ºF	A	A	B	B	NR
Trichloroethylene	100%	70ºF	A	A	A	B	NR
Trichloroethylene	100%	150ºF	A	A	A	B	NR
Trichloroethylene	100%	180ºF	A			B	NR
Tricresyl Phosphate	100%	70ºF	A	A	A	B	B
Tricresyl Phosphate	100%	100ºF	A			B	B
Tridecyl Alcohol		70ºF	A			B	B
Triethanolamine		100ºF	A				
Triethanolamine Lauryl Sulfate		100ºF	A	LR			
Triethylbenzene		150ºF	A				
Triethylene Glycol		100ºF	A				
Triethylenetetramine		100ºF	A	A			
Trifluoroacetic Acid (3M)	100%	162ºF	A	A	B	B	NR
Triphenyl Phosphite		100ºF	A	A	A	B	NR
Tripotassium Phosphate		150ºF	A	A	A	B	NR
Trisodium Phosphate	5%	140ºF	A			B	NR
Tung Oil	100%	70ºF	A	A	A	B	B
Turpentine		70ºF	A			B	B
Urea Fromaldehyde resin		100ºF	A			B	B
Urea Liquor		266ºF	A			B	B
Urea Solution	50%	100ºF	A				
Urea-Ammonium Nitrate solution		150ºF	A				
Uric Acid		70ºF	A			B	
V-8 Vegetable Juice		70ºF	A	A			
Vapam		100ºF		A			
Varnish		150ºF	A				
Vegetable Oil		100ºF	A				

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Vesphene (Steris Product)	100%	70ºF				A	
Vesphene (Steris Product)	0.01%	70ºF				A	
Vicks® Cough Syrup		70ºF	A			B	NR
Vinegar (White)		70ºF	A				
Vinyl Acetate (Clear liquid)		150ºF	A			B	B
Vinyl Chloride		70ºF	A			B	B
Vinyl Toluene		100ºF	A		A	B	B
Water, Boiler		212ºF	A				
Water, Boiling Distilled		225ºF	A			B	B
Water, Boiling Distilled		250ºF	A				
Water, Boiling Distilled		290ºF	A	A		B	B
Water, Brackish		150ºF	A	A			
Water, Cation Exchange	pH4	180ºF	A			B	
Water, DI		100ºF	A	A	A	B	B
Water, DI		150ºF	A	A	A	B	B
Water, DI		212ºF	A	A	A	B	NR
Water, Fresh		212ºF	A	A		B	B
Water, Salt	5%	150ºF	A			B	B
Water, Sea		165ºF	A	A		B	B
Water, Sea		212ºF	A	A		B	NR
Water, Tap		100ºF	A	A	A	B	B
Water, Tap		150ºF	A	A	A	B	B
Water, Tap		212ºF	A			B	NR
Wax		200ºF	A				
Whey		70ºF	A				
Whiskey		150ºF	A			B	B
White Liquor		150ºF	NR	NR		B	B
Whizz® Laundry detergent	100%	150ºF	NR	NR	NR		
Wine		100ºF	A			B	B
Wood Rosin	100%	100ºF	A	A	NR	B	B
Wood Rosin		388ºF	A			B	NR
Xylene	100%	150ºF	A	A		B	NR
P-Xylene		150ºF	A	A		B	NR
Yeast		150ºF				B	
Zinc Acetate	10%	100ºF	A			B	B
Zinc Acetate	30%	100ºF	A			B	B
Zinc Calcium Bromide		150ºF	A	A	A	B	B
Zinc Chloride	10%	150ºF	A	A		B	B
Zinc Chloride	40%	70ºF	A			B	B
Zinc Chloride	50%	70ºF	LR	LR		B	B
Zinc Nitrate		100ºF	B	B		B	B

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
Blank:Insuffient Data

Heresite Protective Coatings LLC • 822 S. 14th St • Manitowoc, WI 54220
800-558-7747 or 920-684-6646 • sales@heresite.com • www.heresite.com

HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Zinc Plating Solution		150ºF	B	B		B	B
Zinc Sulfate		100ºF	B	B		B	B

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
Blank:Insuffient Data

Heresite Protective Coatings LLC • 822 S. 14th St • Manitowoc, WI 54220
800-558-7747 or 920-684-6646 • sales@heresite.com • www.heresite.com

HERESITE PROTECTIVE COATINGS, LLC

3005 Ranchview Ln N
Plymouth, MN 55447
cdicurbs.com 888-234-7001

Manufacturer's Certification of Compliance

To Whom It May Concern,

I, Joe Long, Crystal Distribution Inc. Supply Chain Manager, certify that the products listed below comply with the domestic content requirements of the Build America, Buy America Act (BABA) and related federal regulations.

Product(s) or Material(s):

- Curbs
- Curb Adapters

Certification Statement:

For manufactured goods and construction materials, I certify that all manufacturing processes occurred in the U.S. at one of our five (5) manufacturing facilities, the cost of U.S.-sourced components is more than 55% of the total component cost, and final manufacturing or assembly was in the U.S.. For iron and steel products, all manufacturing, from melting through coating, took place in the U.S. based upon certifications provided to us by our galvanized sheet metal and micromat insulation suppliers.

This certification confirms compliance with all applicable BABA requirements.

Notification of Changes:

I agree to inform you immediately if compliance changes during this project.

Declaration:

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Joe Long
Supply Chain Manager
jlong@cdicurbs.com
763-639-7487

Line	Quantity	CDI Part #	Tag
E	1	2-0016-9207	PHP-L03

Description

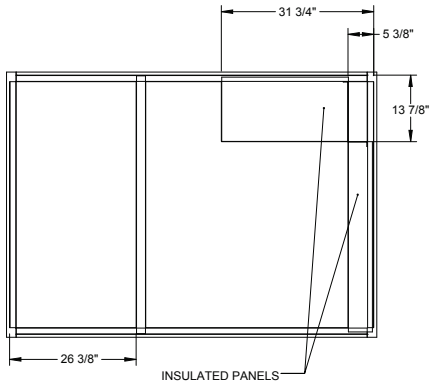
Straight Curb
Straight, No Pitch, 16 in
New Model: RN009 (PLENUM)
Wood Nailer; Top Brace; Not Insulated; Insulated Condenser Panel (only where required)

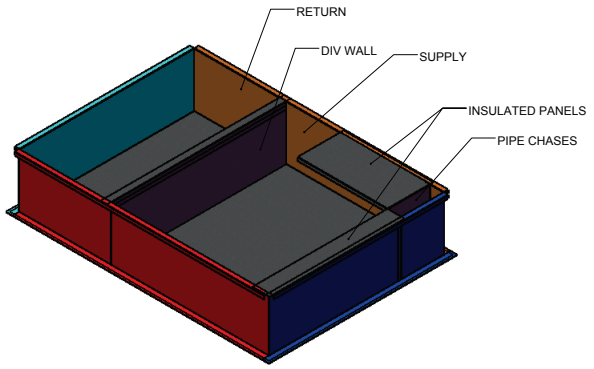
Curb to be coated with heresite p-413 by Blygold

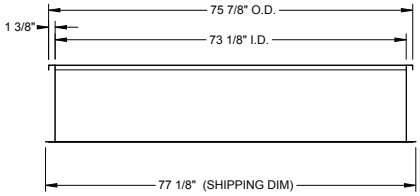
OPTIONS:
MATERIAL: 18 ga. GAL STEEL
INSULATED PANELS (WHERE REQUIRED)
PIPECHASE
1X4 WOOD NAILER (UNDER TOP FLANGE)

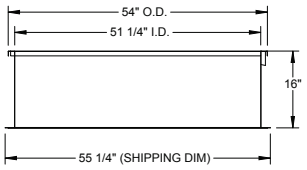
DIMENSIONED AND TOLERENCED PER ANSI Y14.5M-1982

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
	DRAWING	5/3/16	BDR









CURB SHOWN IS CDI STANDARD CONFIGURATION
CDI RESERVES THE RIGHT TO CHANGE LAYOUT WITHOUT NOTIFICATION. IF CURB IS NEEDED IN A DIFFERENT CONFIGURATION CDI MUST BE NOTIFIED PRIOR TO PLACING AN ORDER.

*VERIFY EXISTING CURB OD
*VERIFY SUPPLY AND RETURN OPENINGS
*NOTE ANY CHANGES
*CALL WITH ANY QUESTIONS
*FAX BACK IF DRAWING IS OK AS IS

CURB WEIGHT (LBS.): 182.23

UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE: X ± 0.06, XX ± 0.03, XXX ± 0.01; .X ± 1/64", .XX ± 1/32"

DIMENSIONS ARE AS FOLLOWS: Inch [mm]

3RD ANGLE PROJECTION

APPROVALS	DATE
DRAWN: brenfro	
CHECKED:	
Tuesday, May 03, 2016 9:04:04 AM	

CDI
17560 TYLER ST NW
ELK RIVER, MN 55330
(763)391-7790
(763)391-7851

TITLE: 2-0016-9207

FILE NAME: 2-0016-9207

ECO #:

DRAWING NO.:

REV:

SCALE: 1:20

SHEET: 4 OF 7

S:\CURBS_CURB_ADAPTERS\2-XXXX-XXXX_PITCHED_STRAIGHT_KD\STANDARD STRAIGHT-PITCHED\9000\2-0016-9207\

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Wate Water Resource Recovery Facility
PRODUCT	Packaged Air Conditioners/ Packaged Heat Pumps
MANUFACTURER	AAON
SPECIFICATION	156500-6-11 2.50
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 15, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

1100 Kendrick Ave. Springdale AR, 72764

SUBMITTAL NOTES

Review Comments

Remarks

1. **Please include bookmarks in the submittal PDF for the different unit tags and products.**
2. **Blygold coating submitted is tested on aluminum panels. This coating does not appear to be intended to be used as conformal coating for electronic circuit boards and wiring connections. Confirm or submit appropriate coating product for electronics.**
3. **Response to comment is not clear that the increased MCA rating has been coordinated with the electrical power circuit. Contractor to confirm.**
4. **Response to comments on roof curbs is not found. Confirm roof curbs are provided and include product information.**
5. **PAC A0l / PAC A02 / PAC J0l / PAC J02 / PHP L0l: Contractor shall coordinate supply and return air penetration in roof with bar joist manufacturer. Contractor to coordinate location/dimensions and equipment load with bar joist manufacturer/ designer.**
6. **PHP L02: Contractor to coordinate exact location of openings with existing joists and framing members.**
7. **PHP L03: Contractor to coordinate exact location of openings with existing joists and framing members.**
8. **PHP M0l: This unit is supported by a concrete slab and grade**

Review Response

1. **Bookmarks are included on this submittal document**

2. The equipment manufacturer does not recommend coating electronic terminals or connections due to serviceability concerns. If the electrical is coated there is not a viable way to service, diagnose, or maintain proper operation of the systems. The note for H-2 Note 2 is listed below and calls out a conformal coating however, the spec calls for all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating. The H-2 Note #2 appears to be pulled from the Spec section 15650-11 Casing- a. DOAS 15650-12 a cont. Uncoated galvanized steel exterior is not acceptable. controls panels, wiring connections and other sensitive electronics shall be provided with heresite, E-coat, micro guard, or equal. There is not a spec call out for electrical coating on the Packaged Roof Top Units. Furthermore, the electrical components are in an isolated compartment not subject to exposure of the air stream.

H-2 Note 2 Packaged Roof Top Units 2. UNIT IS SUBJECT TO CORROSION FROM A HYDROGEN SULFIDE LADEN ATMOSPHERE. ALL AIRSTREAM COMPONENTS AND EXPOSED HEAT TRANSFER COMPONENTS SHALL BE GIVEN A PROTECTIVE SPECIAL COATING OF HERESITE, MICROGUARD 1, ELECTROFIN E-COAT OR APPROVED EQUAL. "CONTROLS PANELS, WIRING CONNECTIONS AND OTHER SENSITIVE ELECTRONICS – Pulled from DOAS Spec section 15650-11,12 a."

Spec - 15650-7 c. Where indicated in the schedules on the Drawings, all copper and other surfaces subject to corrosion from the atmosphere indicated shall be given a special coating.

3. Contractor to Confirm

4. Curb data provided for each submitted section. Curbs to include Heresite P-413 coating by Blygold.

5. Contractor to Confirm

6. Contractor to Confirm

7. Contractor to Confirm

8. Contractor to Confirm

CREATING CUSTOMERS FOR LIFE

POWERS

SUBMITTAL

JOB NAME	Bentonville Water Resource Recovery WRRF Facility
PRODUCT	Packaged Roof Top Units
MANUFACTURER	AAON
SPECIFICATION	15650
LOCATION	Springdale, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems
CONTRACTOR POC	
DATE	November 11, 2025
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

5440 Northshore Drive – North Little Rock, Arkansas 72118 – Tel: 501.374.5420 Fax: 501.370.9298

SUBMITTAL NOTES

PHP_M01

Remarks BLACK & VEATCH NOTES FROM SEPTEMBER 3, 20205

Building Mechanical Comments:
All Units:

1. Roof Top Units are specified under Division 15650, revise submittal title and confirm compliance with 15650.
2. Contractor to confirm that materials comply with American Iron and Steel (AIS) requirements as indicated section 15650-1.02.
3. AAON is not a listed manufacturer in specification section 15650. To be considered as a substitute, submit additional information on construction materials / components to prove compliance with section 15650 – 2.05.A.
4. There is no digital Building Management Control system (BMS) on the project. Controls are hardwired and must be built-in or coordinated with the general HVAC controls supplier. Contractor to confirm that all controls, interlocks, and alarms as indicated in the Contract Drawing Sequence of Operation H-6 will be provided.
5. Confirm extra materials will be provided as indicated in specification section 15650-2.05.A.3.
6. Confirm coatings will be applied as required by the Packaged Air Conditioning/Heat Pump Schedule Notes on Contract Drawing H-3. Please provide coating information and chemical resistance charts.
7. Confirm the cooling capacities listed in the submittal account for coatings provided.
8. Confirm Modulating Hot Gas Reheat is included on all units.
9. Confirm economizers are provided with differential enthalpy plus fixed dry bulb control.
10. Confirm supply fans are direct drive and provided with VFDs.
11. Confirm all units with R454B refrigerant are provided with A2L leak detection, alarm, and refrigerant circuit shutdown capability. Contractor to coordinate leak detection unit operation with duty / standby controls where applicable.
12. Confirm all units are provided with a roof curb 16 inches in height as required by spec paragraph 2.05.A.13.e.

POWERS OF ARKANSAS -
RESUBMIT NOTES 11/10/2025:
1. REVISED SUBMITTAL PER SPEC SECTION 15650
2. REVISED SUBMITTAL AMERICAN IRON AND STEEL COMPLIANCE - SEE BELOW
3. REVISED SUBMITTAL PER SPEC SECTION 15650-2.05.A.
4. REVISED SUBMITTAL UNIT HAS FACTORY CONTROLLER - FIELD CONTROLS PER DRAWING H-6 PROVIDED BY OTHERS
5. REVISED SUBMITTAL INCLUDES SPEC SECTION 15650-2.05.A. ADDITIONAL ITEMS OIL & FILTERS - PAGE #9 F9A BELOW - [1] LUBRICATING OIL SHIPS LOSE
6. REVISED SUBMITTAL INCLUDES CORROSIVE COATING PER DRAWING NOTE H-3 SEE ATTACHED HERESITE AND SUBMITTAL CALL OUT ON PAGE #10 F.37 & PAGE #16 BELOW
7. REVISED SUBMITTAL CAPACITES ACCOUNT FOR COATINGS.
8. REVISED SUBMITAL MHGRH CALLED OUT ON PAGE #10 F11A. BELOW
9. REVISED SUBMITAL NO ECONOMIZER
10. REVISED SUBMITAL DIRECT DRIVE FANS WITH ECM CALLED OUT ON PAGE #9 F3.4/F3.B/F3.C BELOW
11. REVISED SUBMITAL A2L COMPLIANT SEE ON PAGE #11 BELOW

I cannot say for sure if we have ever provided a letter or not to a customer. But all our raw material steel, Copper, Galvanized, Aluminum, & Stainless we get from domestic mills.

Jimmy T Davis
Category Manager-Raw Materials

AAON, Inc.
p: 918-382-6525
2425 S Yukon Ave
Tulsa, OK 74107
www.aaon.com

1. Heat pump capacity appears below scheduled value. Emergency electric heat capacity appears below scheduled value. Revise emergency electric heat capacity to conform to value listed in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3. Confirm intent to operate heat pump and auxiliary capacity electric coil simultaneously.
2. Confirm unit MCA with electric heat. If unit MCA is higher than listed in the Packaged Air Conditioning/Heat Pump Schedule on Contract Drawing H-3, Contractor to coordinate any needed changes with electrical at no additional cost to the owner.
3. The unit weight is higher than indicated in the schedule on contract drawing H-3. Contractor to coordinate any changes due to weight or different dimensions with the structural engineer at no additional cost to owner.
4. Confirm that factory installed hail guard is furnished as required by the Packaged Air Conditioning/Heat Pump Schedule Notes on Contract Drawing H-3.

POWERS OF ARKANSA-
RESUBMIT NOTES 11/10/2025:

1. REVISED CAPACITY ON PAGE #5 BELOW - PAGE #6 HEAT PUMP CAPACITY TABLE AY DIFFERENT AMBIANT CONDITIONS.
2. REVISED SUBMITTAL PAGE #5 AUXILIARY HEAT
3. REVISED SUBMITTAL WEIGHT 756lbs vs. SCHEDULED OF APPROX 1500lbs - PAGE #5 BELOW
4. REVISED SUBMITTAL FIXED OA DAMPER

Unit Rating

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

```
                                                A1 A2 A3 A4 A5  B1 B2 B3 B4 B5  1  2  3A 3B 3C 3D 3E  4A 4B 4C  5A 5B 5C 5D 5E  6A 6B 6C 6D 6E  7  8  9A 9B 9C
RNA-007-A-A-3-GJATA-A02NA:00-0FCLG-G00-00000-ABGME-DC-000
A-00-Q0-0-000-00-HA0A-00-000-B00B00-G0000B-000000C
9D 10A 10B 11A 11B 12 13A 13B 13C 14 15 16A 16B 16C 16D 17A 17B 18A 18B 18C 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37
```

Tag: PHP_M01

Job Information

Job Name:	*Bentonville WRRF*
Job Number:	*Bentonville WRRF*
Site Altitude:	*1266 ft*
Refrigerant:	*R-454B*
Design System Charge (oz):	*598*

Static Pressure

External:	*1.10 in. w.g.*
Cooling Coil:	*0.19 in. w.g.*
Filters Clean:	*0.09 in. w.g.*
Dirt Allowance:	*0.35 in. w.g.*
Reheat Coil:	*0.04 in. w.g.*

Cooling Section

	Gross	Net
Total Capacity:	*82.6 MBH*	*79.1 MBH*
Sensible Capacity:	*63.4 MBH*	*60.0 MBH*
Latent Capacity:	*19.1 MBH*	
Mixed Air Temp (DB/WB):	*84.5 °F / 68.5 °F*	
Entering Air Temp (DB/WB):	*84.5 °F / 68.5 °F*	
Lv Air Temp (Coil) (DB/WB):	*56.8 °F / 56.3 °F*	
Lv Air Temp (Unit) (DB/WB):	*58.2 °F / 56.9 °F*	

Supply Air Fan:	*1 x RNA185D70 @ 1.22 BHP Ea.*
SA Fan RPM / Width:	*1700 RPM / 2.898 in*
SA Fan FEI:	*1.35*
Exhaust Air Fan:	*1 x RM12X9-RN @ 0.65 BHP Ea.*
EA Fan RPM / Width:	*759 RPM /*
EA Fan FEI:	*0.66*
Evaporator Coil:	*8.5 ft² / 4 Rows / 14 FPI*
Evaporator Face Velocity:	*264.5 fpm*

Unit Information

SCHEDULED WEIGH 1100lbs

Approx. Op./Ship Weights:	*1329 lbs / 1329 lbs (±5%)*
Ambient Temperature (DB/WB):	*102.0 °F / 75.0 °F*
Coil Filter FV / Qty:	*253.1 fpm / 4*
Min. Room Area/Height/Airflow**:	*561 ft² / 7 ft / 1012 SCFM*
Exhaust Airflow/ESP/TSP:	*2330 SCFM / 0.10 in. w.g. / 0.21 in. w.g.*
Outside Air Prefilter FV / Qty:	*186.9 fpm / 1*
Supply Airflow/ESP:	*2250 SCFM / 1.10 in. w.g.*
Outside Airflow:	*540 SCFM*
Return Temperature (DB/WB):	*79.0 °F / 66.2 °F*
Economizer:	*0.15 in. w.g.*
Heater:	*0.02 in. w.g.*
Cabinet:	*0.10 in. w.g.*
Total:	*2.03 in. w.g.*

Heating Section

Preheat Type:	*Std (No Preheat)*
Integrated Heat Capacity:	*39.9 MBH*
Primary Heat Type:	*Heat Pump*
Total Capacity:	*43.8 MBH*
OA Temp (DB/WB):	*15.0 °F / 9.0 °F*
RA Temp (DB/WB):	*75.0 °F / 62.0 °F*
Entering Air Temp (DB/WB):	*60.6 °F / 53.0 °F*
Leaving Air Temp (DB/WB):	*77.4 °F / 59.4 °F*
Input (Emergency/Aux):	*20.0 kW / 10.0 kW*
Fan Temp Rise:	*1.4 Δ°F*
Auxiliary Heating Type:	*Electric Heat*
Heating Airflow:	*2250 SCFM*
Emergency Capacity:	*20.0 kW* AUX HEAT OPERATES WHILE HEAT
Auxiliary Capacity:	*10.0 kW* PUMP IS IN OPERATION
Emergency Entering Air Temp (DB/WB):	*60.6 °F / 53.0 °F*
Emergency Leaving Air Temp (DB/WB):	*89.6 °F / 63.6 °F*
Auxiliary Entering Air Temp (DB/WB):	*77.4 °F / 59.4 °F*
Auxiliary Leaving Air Temp (DB/WB):	*91.9 °F / 64.4 °F*
Electric Heat FLA:	*24.1*

Re-heat Coil:

Capacity:	*41.6 MBH*
Leaving Air Temp (DB/WB):	*75.0 °F / 62.8 °F*
Relative Humidity:	*51.7%*

Rating Information

Listing Model	*RN-007-3-0-GBAC-V0-21-000-A*
Cooling Capacity:	*72.0 MBH*
Cooling EER:	*11.86 BTU/h·W*
Cooling IEER:	*14.1 BTU/h·W*

**Rated in accordance with AHRI Standard 340/360 (I-P)*

Application EER @ Op. Conditions:	***9.9 BTU/h·W***
Application COP @ Op. Conditions:	***2.19 W/W***
Application COPH @ Op. Conditions:	***3.59 W/W***

Heating High Temp Capacity:	*62.0 MBH*
Heating High Temp COP:	*3.59 W/W*
Heating Low Temp Capacity:	*35.5 MBH*
Heating Low Temp COP:	*2.425 W/W*

Electrical Data

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

Circuit 1

Rating:	*460V/3Ø/60Hz*	*Minimum Circuit Amp:*	*39*
Unit FLA:	*33*	*Maximum Overcurrent:*	*45*
SCCR:	*10 KAIC*		

	Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	*1*		*460*	*3*			*10.9*
Condenser Fan:	*2*	*0.33*	*460*	*1*	*1100*	*1.6*	
Supply Fan:	*1*	*3.00*	*460*	*3*	*1760*	*4.8*	
Exhaust Fan:	*1*	*1.00*	*460*	*3*	*1760*	*2.1*	

Cabinet Sound Power Levels*

Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW (dB):	*85*	*82*	*84*	*81*	*72*	*70*	*68*	*62*
Return LW (dB):	*87*	*79*	*74*	*68*	*65*	*61*	*56*	*49*

**Sound data is generated by a propriety acoustics model validated through unit testing in accordance with AHRI 260, utilizing tested fan sound data in accordance with AMCA 300.*

*****The minimum floor area for the Lower Flammability Limit (LFL) is calculated in accordance with UL60335-2-40 4th ed. (operating or storage). For UL60335-2-40 3rd ed. double the airflow and minimum floor area listed.***

HEAT PUMP Performance Data Table

Outside Air		Mixed Air		Leaving Air		Heat Pump Capacity	Heat Pump Integrated Capacity	Heat Wheel Heating Capacity	Heating COP
DB °F	WB °F	DB °F	WB °F	DB °F	WB °F	MBH	MBH	MBH	W/W
62.0	56.2	71.9	60.7	111.4	72.8	92.2	92.2		3.57
57.0	51.6	70.7	59.7	107.2	71.2	85.4	85.4		3.44
52.0	47.1	69.5	58.8	103.2	69.7	79.1	79.1		3.31
47.0	42.6	68.3	58.0	99.5	68.3	73.3	73.3		3.19
42.0	38.0	67.1	57.2	96.0	67.0	68.2	68.2		3.07
37.0	33.5	65.9	56.4	89.0	64.5	63.4	54.4		2.55
32.0	28.8	64.7	55.7	86.4	63.5	58.8	51.4		2.49
27.0	24.3	63.5	55.0	83.9	62.4	54.5	48.3		2.42
22.0	19.7	62.3	54.4	81.3	61.4	50.3	45.2		2.34
17.0	15.0	61.1	53.7	78.8	60.4	46.4	42.2		2.26
12.0	10.4	59.9	53.1	76.3	59.4	42.7	39.1		2.17
7.0	5.7	58.7	52.5	73.7	58.3	39.0	35.9		2.07
2.0	0.1	57.5	51.8	70.9	57.2	34.9	32.1		1.94
0.0	0.0	57.0	51.8	70.2	57.0	34.4	31.7		1.92

**Invalid operation point - Compressor operating outside of operating envelope*
***Electric preheat is used to maintain the entering air temperature when applicable.*

18.5" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PHP_M01*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*2200*
Diameter x Qty:	*18.5 in. x 1*
CFM:	*2250*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*2250*
Fan Energy Index (FEI):	*1.35*
Static Pressure:	*2.03 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*2.12 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*2.12 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*3 x 1 / No*
Frame Size:	*182T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*460V/3Ø/60Hz*
Enclosure Type:	*TEFC*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE:

RPM:	*1700*
BHP:	*1.22*
Efficiency:	*59.02%*
Max Duct SP with Blocked Airway:	*0 in. Wg @1700 RPM*

Max Duct SP with Blocked Airway:

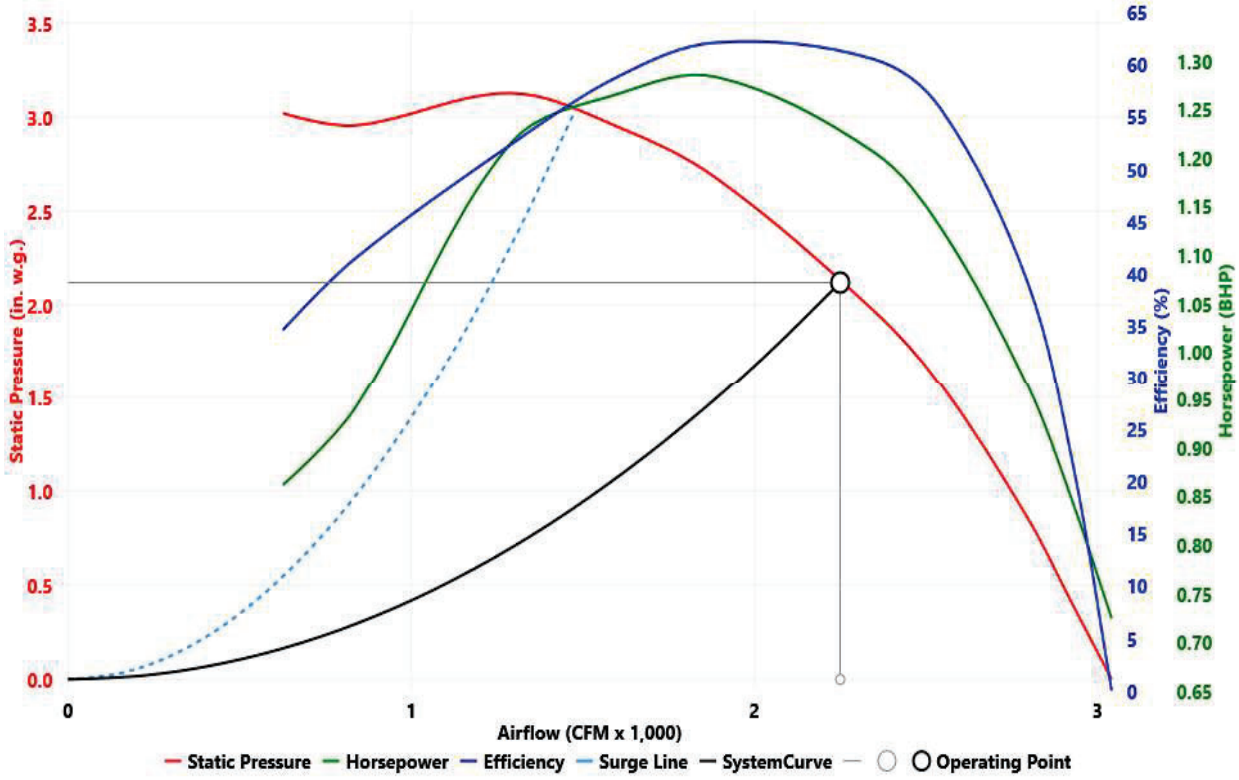
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
83	81	84	82	75	73	71	65
83	81	84	82	75	73	71	65

SOUND POWER A-Weighted: 85 dB

Supply Fan Model: RNA185D70 @ 1700 RPM and 100% Width
Design Conditions: 2250 CFM @ 2.12 in. w.g. SP



11" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

JOB INFORMATION:

Job Name:	*Bentonville WRRF*
Job Tag:	*PHP_M01*
Date:	*5/19/2025 6:29:39 PM*

WHEEL SPECIFICATION:

Max RPM:	*1440*
Diameter x Qty:	*11 in. x 1*
CFM:	*2330*
Inertia:	*3WR²*

OPERATING CONDITIONS

Air Flow:	*2330*
Fan Energy Index (FEI):	*0.66*
Static Pressure:	*0.21 in. Wg*
Relief Dampers DP:	*0 in. Wg*
TSP:	*0.22 in. Wg*
Site Altitude	*1266*
TSP @ Sea Level:	*0.22 in. Wg*

MOTOR SELECTION

Rated HP / Bypass:	*1 x 1 / No*
Frame Size:	*143T*
Nominal RPM:	*1760*
VAC/PH/HZ:	*460V/3Ø/60Hz*
Enclosure Type:	*TEFC*
Max Inertial Load:	*0 WR²*

FAN PERFORMANCE

RPM:	*759*
BHP:	*0.65*
Efficiency:	*11.87%*
Max Duct SP with Blocked Airway:	*0 in. Wg @759 RPM*

Max Duct SP with Blocked Airway:

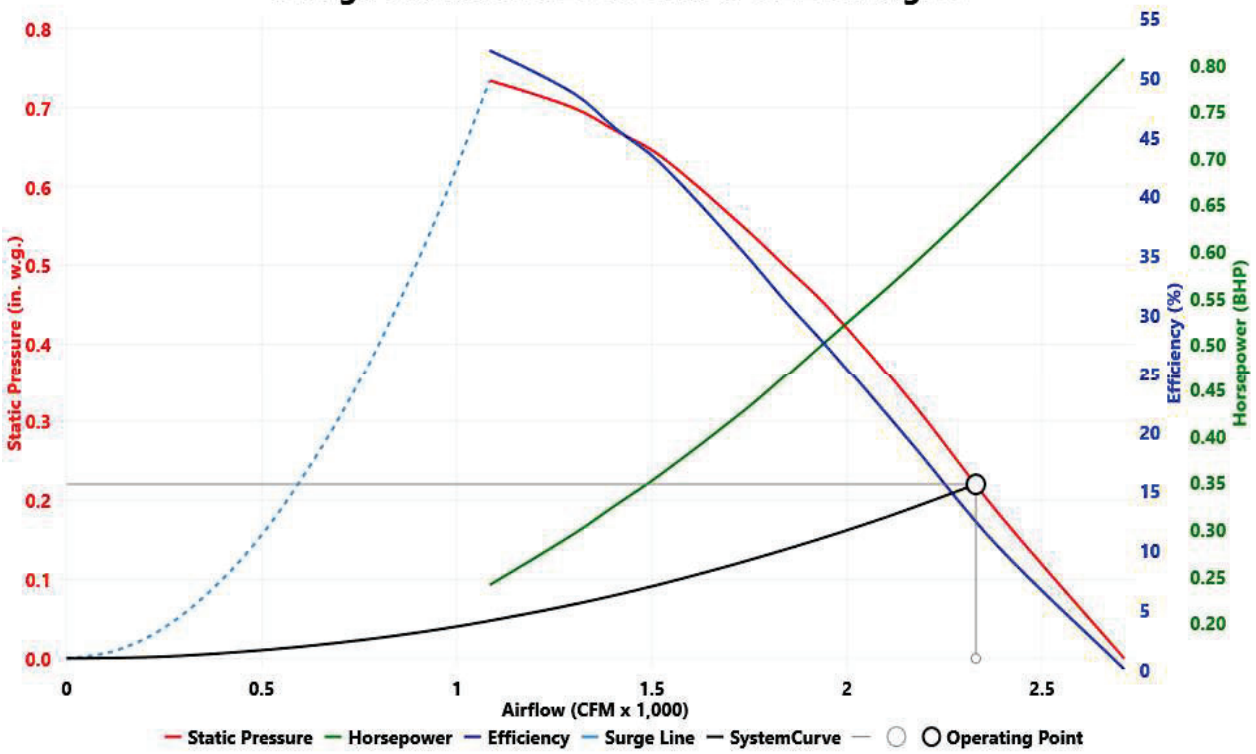
FAN SOUND POWER (Inlet/Outlet)

Octave Band: **(Re 10^-12 watts)**

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
86	78	70	71	65	60	55	50

SOUND POWER A-Weighted: dB

Exhaust Fan Model: RM12X9 @ 759 RPM and 100% Width
Design Conditions: 2330 CFM @ 0.22 in. w.g. SP



Unit Submittal

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918) 583-2266
Ecat Price Version: 361

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                                                A1 A2 A3 A4 A5  B1 B2 B3 B4 B5  1  2  3A 3B 3C 3D 3E  4A 4B 4C  5A 5B 5C 5D 5E  6A 6B 6C 6D 6E  7  8  9A 9B 9C
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A-00-Q0-0-000-00-HA0A-00-000-B00B00-G0000B-000000C
                                9D 10A 10B 11A 11B 12 13A 13B 13C 14 15 16A 16B 16C 16D 17A 17B 18A 18B 18C 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37
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Tag: *PHP_M01*

Job Name: *Bentonville WRRF*

Job Number: *Bentonville WRRF*

Unit Worksheet For:

Unit Worksheet Date: *11/12/2025*

	Base Option	Description
RN	Generation	RN Series
A	Major Revision	Major Revision A
007	Unit Size	Seven
A	Series	A Series
A	Minor Revision	Minor Revision A
3	Voltage	460V/3φ/60Hz
G	Compressor Style	R-454B Variable Capacity Scroll Compressor
J	Condenser Style	Alpha Class - Air-Source Heat Pump
A	Indoor Coil Configuration	Standard Evaporator
T	Cooling Heat Exchanger Construction	Stainless Steel Evap. Coil Casing + Polymer E-Coated Evap. And Cond. Coils
A	Cooling Staging	1 Variable Capacity Comp
A	Heat Type	Electric Heat (Vertical Unit Configuration)
0	Heat Construction	Standard
2	Heat Designation	20 kW
N	Heat Staging	Modulating SCR Electric - Temperature Control
A	Heat Pump Auxiliary Heating	Auxiliary Heat - 10kW - Modulating

	Feature Option		Description
0	F1.	Unit Orientation	Standard Access - Hinged Access Doors with Lockable Handles
0	F2.	Supply & Return Locations	Bottom Supply--Bottom Return
0	F3A.	Supply Fan Quantity	1 Fan
F	F3B.	Supply Fan Configuration	1 Fan per VFD + Narrow Width Fan
C	F3C.	Supply Fan Size	18.5" Direct Drive Backward Curved Aluminum
L	F3D.	Supply Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
G	F3E.	Supply Fan Motor Size	3 hp
G	F4A.	Outside Air Section	Economizer + Power Exhaust
0	F4B.	Energy Recovery Type	No Energy Recovery
0	F4C.	Energy Recovery Size	No Energy Recovery
0	F5A.	Return Fan Quantity	0 Return Fans
0	F5B.	Return Fan Configuration	No Return Fan
0	F5C.	Return Fan Size	No Return Fan
0	F5D.	Return Fan Motor Type	No Return Fan
0	F5E.	Return Fan Motor Size	No Return Fan
A	F6A.	Exhaust Fan Quantity	1 Fan
B	F6B.	Exhaust Fan Configuration	1 Fan per VFD + Full Width Fan
G	F6C.	Exhaust Fan Size	12x9 Forward Curved
M	F6D.	Exhaust Fan Motor Type	High Efficiency Totally Enclosed Motor (1,800 nominal rpm)
E	F6E.	Exhaust Fan Motor Size	1 hp
D	F7.	Outside Air Control	Fully Modulating Actuator - Dual Enthalpy Limit + Dry Bulb Temp Sensor
C	F8.	Return and Exhaust Air Options	Standard Barometric Relief EA Dampers
0	F9A.	Unit Filter Type	2" Pleated - MERV 8 PLUS [2] EXTRA SET PER SPEC 15650-2.05.A.3.
0	F9B.	Unit Filter Size & Location	Standard Filters in Standard Position
0	F9C.	Final Filter Type	No Final Filters
A	F9D.	Filter Options	Clogged Filter Switch - Unit Filters
0	F10A.	Refrigeration Control A	Standard - Adj Comp. Cooling Lock Out Through Unit Controls

	Feature Option		Description
0	F10B.	Refrigeration Control B	Standard
Q	F11A.	Refrigeration Options A	Modulating Hot Gas Reheat [MHGR]-MC - Polymer E-Coated
0	F11B.	Refrigeration Options B	Standard Packaged Unit
0	F12.	Refrigeration Accessories	None
0	F13A.	Unit Disconnect Type	Single Point Power - Standard Power Block
0	F13B.	Disconnect 1 Size	Power Block
0	F13C.	Disconnect 2 Size	Standard - None
0	F14.	Safety Options	None
0	F15.	Electrical Accessories	None
H	F16A.	Control Sequence	Constant Air Volume Heat Pump Unit Controller - CAV Cool + CAV Heat
A	F16B.	Control Supplier	AAON Controls
0	F16C.	Control Supplier Options	None
A	F16D.	BMS Connection & Diagnostics	BACnet IP or MSTP
0	F17A.	Preheat Configuration	Standard - None
0	F17B.	Preheat Sizing	Standard - None
0	F18A.	Option Box Location	None
0	F18B.	Option Box Size	None
0	F18C.	Option Box Accessories	None
B	F19.	Outside Air Accessories	Outside Air Hood with Metal Mesh Filters
0	F20.	Cabinet Options	Standard - None
0	F21.	Accessories	Standard
B	F22.	Maintenance Accessories	Field Wired 115V Convenience Outlet
0	F23.	Code Options	Standard - ETL U.S.A. Listing
0	F24.	Shipping Splits	Standard
G	F25.	Air-Cooled Condenser Accessories	Cond Coil Guards + ECM Condenser Fan Head Pressure Control
0	F26.	Evap-Cooled Condenser Accessories	Standard
0	F27.	Water-Cooled Condenser Accessories	None
0	F28.	Energy Recovery Accessories	None
0	F29.	VFD Options	Standard
B	F30.	Miscellaneous Options	SCCR (10kA)
0	F31.	Blank	Standard
0	F32.	Blank	Standard
0	F33.	Blank	Standard
0	F34.	Blank	Standard
0	F35.	Warranty	Standard Warranty
0	F36.	Cabinet Material	Galvanized Cabinet - Double Wall + R-16 Foam Insulation
C	F37.	Specials & Paint	Premium AAON Gray Paint Exterior Paint + HERESITE P-413 Interior Corrosion Protection

Controller Components

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Ecat Price Version: 361

A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 1 2 3A 3B 3C 3D 3E 4A 4B 4C 5A 5B 5C 5D 5E 6A 6B 6C 6D 6E 7 8 9A 9B 9C

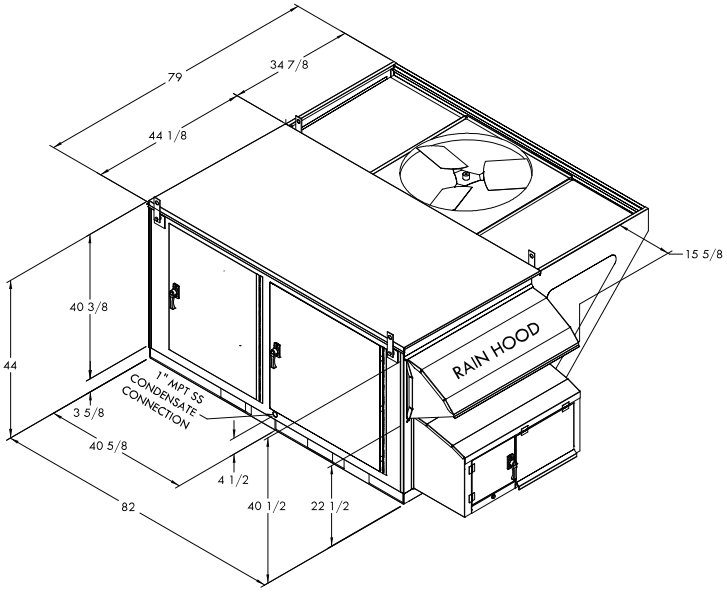
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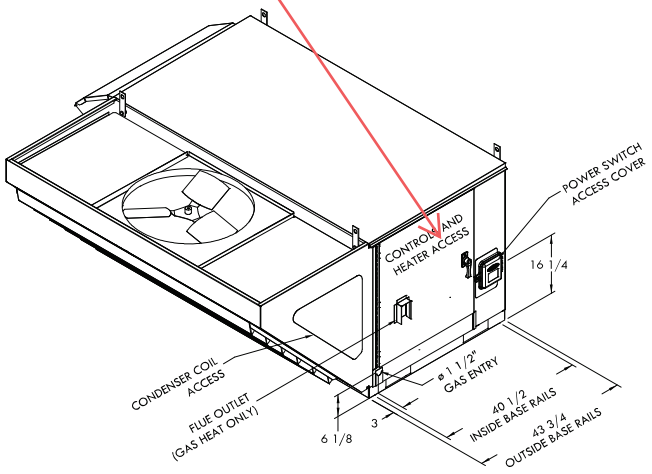
Tag: PHP_M01

Job Name:	Bentonville WRRF	For:	
Job Number:	Bentonville WRRF	Date:	November 12, 2025

Part#	Included Parts	Assigned Channel	BACnet Point
ASM07503	VCCX-454 CONTROLLER		
ASM01692	OSA Temp/Hum Sensor	EBUS2 Communicating Sensor	AI:16,AI:17,AI:18,AI:19
R82890	Supply Temp Sensor - Field Installed	VCCX Control Point AI3	AI:9
ASM01820	Space Digital Temp/Hum Sensor	EBUS3 Communicating Sensor	AI:12,AI:13
ASM01832	Building Pressure Sensor	VCCX Control Point AI5	AI:23
	Supply Fan Control Signal 0-10VDC	VCCX Control Point AO1	AI:22
	Economizer	VCCX Control Point AO2	AI:30
	Modulated Heating (0-10VDC)	VCCX Control Point AO3	AI:35
	Building Pressure Control Signal	VCCX Control Point AO4	AI:24
R62330	Proof of Air Flow	VCCX Control Point BI1	BI:6, BI:24
G150620	Clogged Filter Switch (Standard Filters)	VCCX Control Point BI2	BI:25
	A2L Airstream Leak Detect Status	VCCX Control Point BI5	BI:9
	Safety Shut Down	VCCX Control Point BI8	BI:26
	Supply Fan	Configured Relay Point	BI:0
	Exhaust Fan	Configured Relay Point	BI:1
	Heat 1	Configured Relay Point	BI:2
ASM07563	A2L MITIGATION BOARD 1		
G137750	Gas Sensor 1	A2L MB1 AI1	
	Supply Fan Proof of Flow	A2L MB1 BI1	
	Alarm Output	A2L MB1 Fixed RO3	
ASM07716	REFRIGERATION MODULE		
V38391	Suction Pressure Sensor A	RM454-D SP-1	AI:48
V38410	Discharge Pressure Sensor A	RM454-D HP-1	AI:50
	Comp Discharge Temp A	RM454-D TEMP1	AI:66
	Modulated Condenser Signal A	RM454-D AOUT1	AI:46
G017740	O.D. Coil Defrost Temp Switch	RM454-D BIN3	BI:81
	Comp Status Input A	RM454-D BIN1	BI:77
	Emergency Shutdown	RM454-D BIN4	BI:83
	Comp Enable A	RM454-D RLY1	BI:84
	Comp Unload Signal A	RM454-D COMP1	AI:44
	Reversing Valve Enable	RM454-D RLY5	BI:88
ASM01670	MODULATING HOT GAS REHEAT MODULE		
	Reheat HGR Valve	MHGRV-X	AI:42



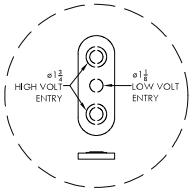
Sealed Electrical Compartment



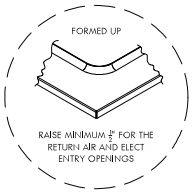
ALL DIMENSIONS IN INCHES

RN A-CABINET ALPHA CLASS HEAT PUMP
AIR COOLED WITH ECONOMIZER, POWER EXHAUST

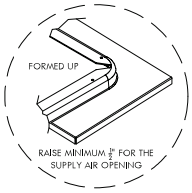
Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_M01	RNA-00017



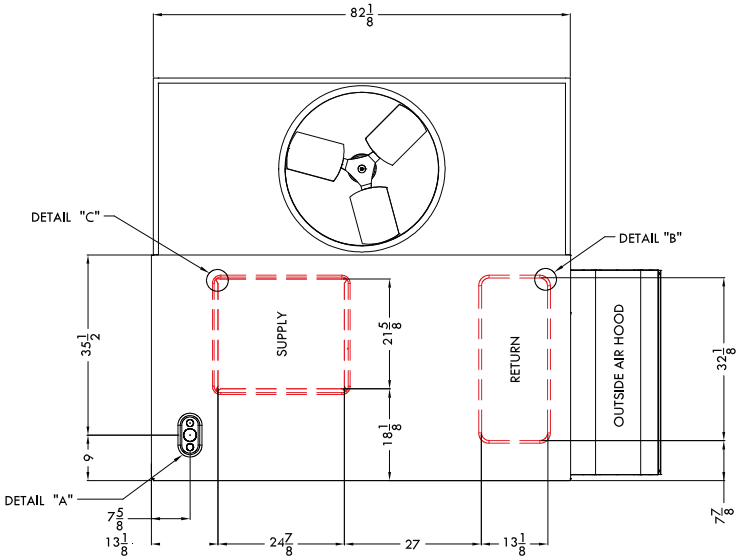
DETAIL A
UTILITY ENTRY

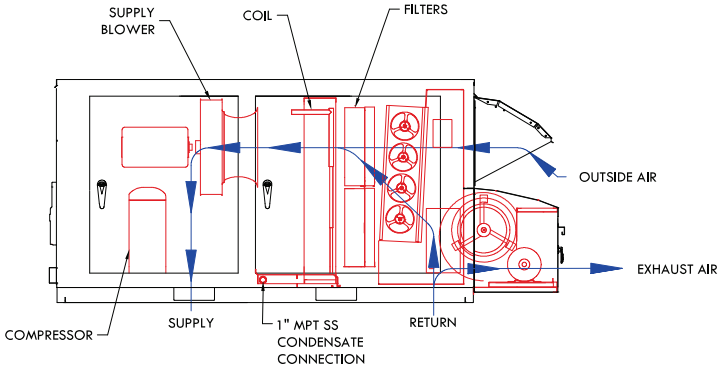


DETAIL B
RETURN AIR AND UTILITY
ENTRY OPENINGS



DETAIL C
SUPPLY AIR OPENING





ALL DIMENSIONS IN INCHES

RN A-CABINET ALPHA CLASS HEAT PUMP
AIR COOLED WITH ECONOMIZER, POWER EXHAUST

Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_M01	RNA-00017

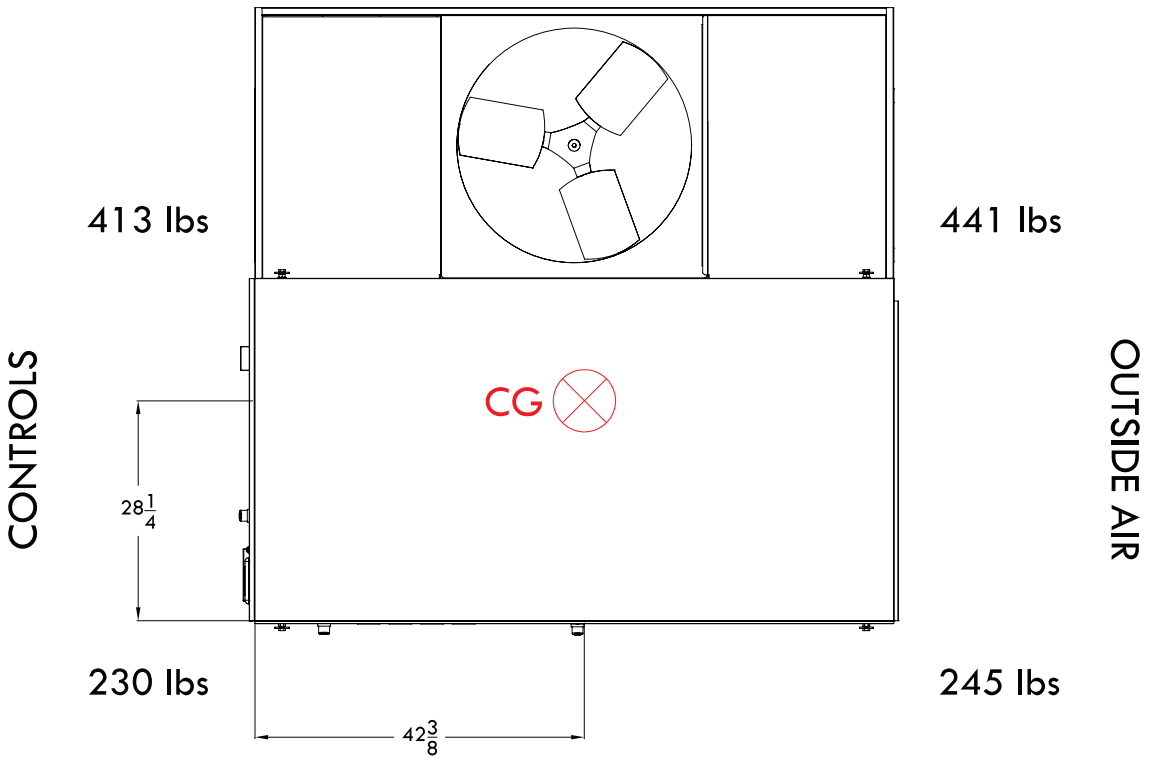
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Shipping Weight: 1329 lbs ±5%

Operating Weight: 1329 lbs ±5%

Center of Gravity (X, Y): 42.4 in, 28.3 in

LEFT

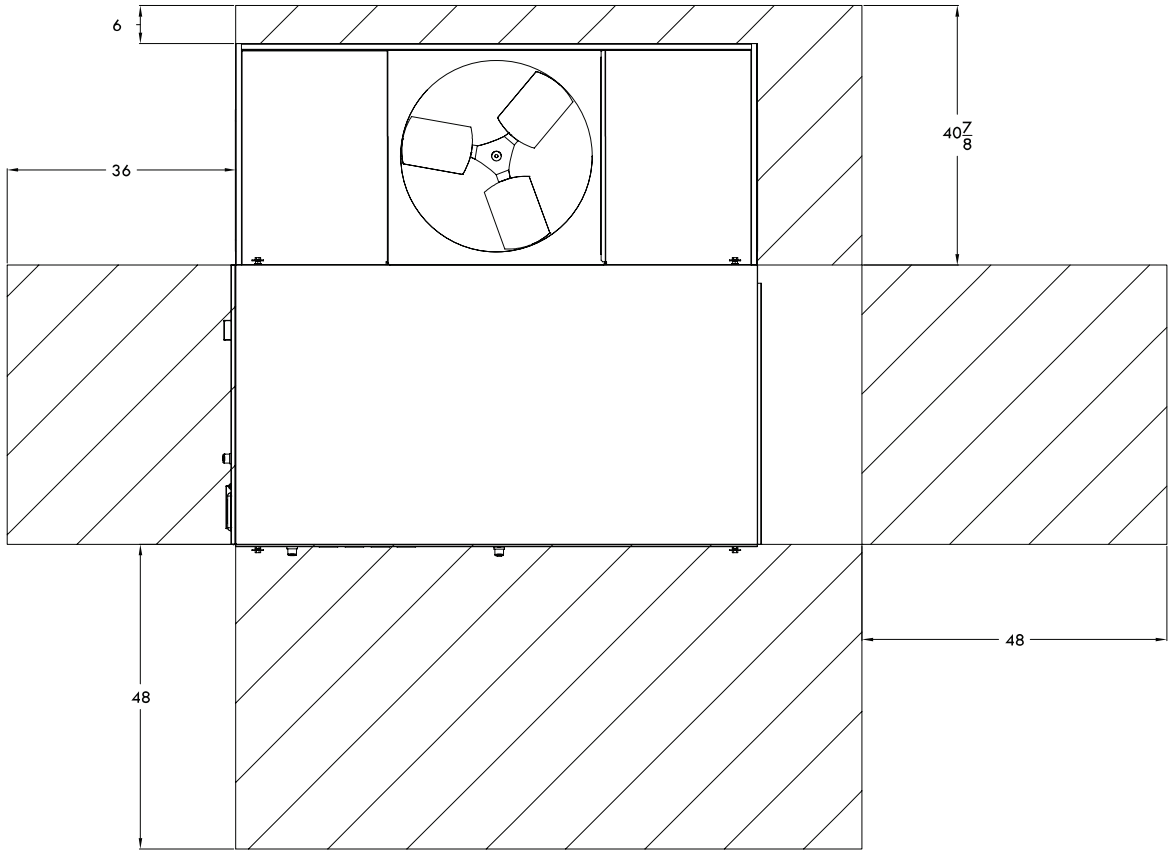


RIGHT

ALL DIMENSIONS IN INCHES

	UNIT CORNER WEIGHTS AND CG		
	Job Name: Bentonville WRRF	Unit Tag: PHP_M01	Drawing No.: RNA-00017

Prepared for Joey Smith, 2025-11-12 08.07.27, ECat v. 6.361.1, Drawing Engine v. 6.25.42.2



ALL DIMENSIONS IN INCHES

UNIT CLEARANCES

Job Name	Unit Tag	Drawing No.
Bentonville WRRF	PHP_M01	RNA-00017

Heresite P-413

Our 50 years of coating history speaks for itself.

In 1964, Heresite was the first company to apply coatings to aluminum-finned, copper-tubed heat exchangers. The Heresite coating became then, and still remains a standard in the industrial coatings industry. We provide the highest quality protective coatings for air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. Our phenolic epoxy has an advantage of dense cross linking and can therefore be applied as a very thin film maintaining stable heat transfer.

We continue our focus on innovation and again have a new story to tell, as we introduce our updated P-413

- A high performance phenolic epoxy coating developed specifically for heat exchangers.
- The flexibility and corrosion resistance of Heresite P-413 appreciably increases the service life of your heat exchange equipment.
- It is specially suited for coating light gauge metals in equipment operating in severe corrosive environments.

P-413 Specifications

The coil will receive a uniform coating on all surfaces, including fin edges, with P-413, a thermoset, modified phenolic coating. Application of P-413 will be through multiple coats by immersion or flow coating to a film thickness of approximately 1.0 mil.

P-413 provides corrosion protection in a 6,000 hour salt spray test in accordance with ASTM B-117 and humidity resistance of >2,000 hours per ASTM D2247. Chemical resistance is demonstrated via 100+ acetone double-rubs per ASTM 5402. P-413 also exhibits superior hardness of 5–6H per ASTM D3363, adhesion of 5B per ASTM B3359 and impact resistance of 160 in/lbs (ASTM D2794). Color shall be brown with gloss of 20–60 — 60 degree. If the coils are to be subjected to direct ultraviolet (UV) exposure, a spray-applied UV-resistant topcoat is an option.

Effective date: 10/09/17

P-413 Typical Properties (@ 1 mil DFT)

Salt Spray: ASTM B-117: 6,000+ hours

SWAAT: ASTM G85-11 Section A.3: Passed 1,000 hours using pressurized coil (see page 2 for results)

Cyclic Weathering: ISO 20340 Offshore Standard: Passed (4,200 hours)

Performance Testing: ISO 12944-6 C5 I/M: Passed C5-M high durability and C5-I high durability

Heat Transfer Reduction: <1% as applied for heat transfer components

Humidity: ASTM D-2247: 2,000+ hours

Simulated Sea Water Resistance: 2,000 hours

Solvent Resistance: ASTM-D5402: 100 acetone double rubs

Cross-hatch Adhesion: ASTM D-3359: 5B

Mandrel: ASTM-D522: >1/4 inch

Impact: ASTM D-2794: 160 lb/inch steel; 40 lb/inch aluminum

pH Range (14 day liquid spot test): 2.4–12.6

Temperature Cycling (4 hours at –75°C; 4 hours at 190°C): 4B–5B adhesion after 5 cycles

Dry Heat Resistance (4 hours at 200°C; 20 minutes at 232°C): 4B–5B adhesion after 5 cycles

Dry Film Thickness: ~1 mils

Hardness: ASTM D3363: 5–6H

Gloss: 20–60 on 60 degree meter (topcoat dependent)

Microchannel Compatible

Abrasion Resistance: 30–40 mg loss per 1,000 cycles

Meets FDA 175.300 for indirect food contact

Meets MIL Spec: MIL-C-18467, MIL-E-480 and MIL-STD-883 Method 1101

Meets Other Specs: Honeywell MC 7200-01 and GE F50T17

Thermal Conductivity: At approximately 2 mils thickness, Thermal Conductivity is less than 1.0 w/mK

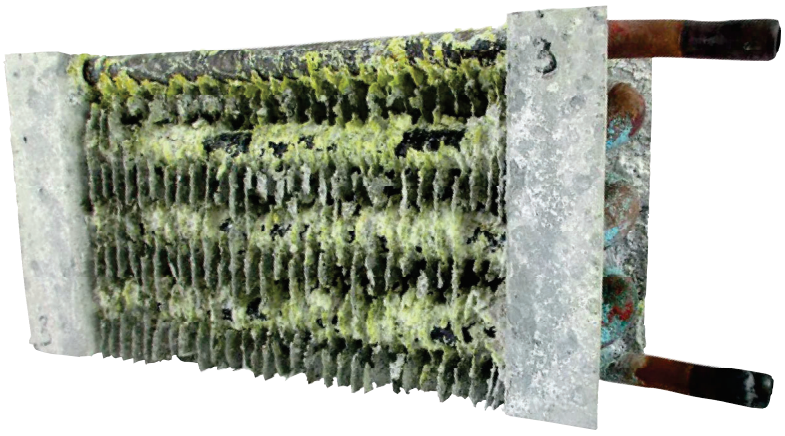
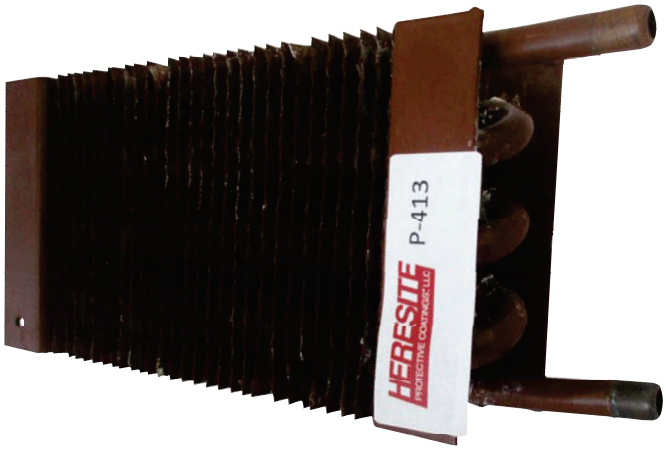
Dielectric Strength [ISO2376:2010(e)]: 286 volts per mil of thickness

NSF Certified – ANSI 51 Certification of Coatings for Food Zone – Non Contact

Heresite Protective Coatings LLC • 822 S. 14th St • Manitowoc, WI 54220
800-558-7747 or 920-684-6646 • sales@heresite.com • www.heresite.com

HERESITE® PROTECTIVE COATINGS, LLC

SWAAT Results

	**Bare 1,000 hour SWAAT**
	**P-413 1,000 hour SWAAT**
	**P-413 + topcoat 1,000 hour SWAAT**

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Product Description
Baking cross-linked phenolic epoxy

Recommended Uses
Heresite P-413 is a high performance coating used principally for heat transfer components and parts — especially air conditioning and refrigeration systems that operate in moderate to severely corrosive environments, including both coastal and/or industrial applications. This phenolic epoxy has an advantage of dense cross linking and are therefore highly corrosion resistant even when applied as a very thin film.

Chemical Resistance
P-413 is chemically resistant to a wide range of acids, solvents, and inorganic salts. Please review chemical resistance guide for further information.

Packaging Information
P-413 is available in one gallon, five gallon and 54 gallon drum quantities.

Thinners and Cleanup
Recommended use of Heresite S-275.

Storage Conditions
Coating should not be stored longer than 6 months. Coating should be stored in a clean, dry environment at 50–75°F. Keep out of direct sunlight. Avoid excessive heat and keep from freezing.

Physical Properties
Solids by weight: Approximately 73%

Solids by volume: Approximately 57%

Pot life: NA

Mixing Ratio by Volume: NA 1 component

Shelf life: 6 months

Color: Brown

VOC Content
2.25 lbs/gal (270 g/L) as supplied

Film Thickness
For heat transfer, a 2 coat immersion process will typically yield a dry film thickness of 1.0–2.0 mils (25–50 microns).

For other parts, please contact Heresite.

Coverage
Theoretical coverage is 800 square feet per gallon per dry mil. Coverage rates are estimates and make no allowance for material loss. Actual rates will vary dependent on application method, surfaces, etc.

Surface Preparation
All surfaces must be clean, sound, and free of any oils, dirt, grease, wax and any other contamination that may interfere with coating adhesion.

In general, the surface should be cleaned by solvent or a cleaner at elevated temperature followed by a clean water rinse. Rinse water shall have a conductivity of lower than 500 microsiemens and a neutral pH (7.0–8.0). All surfaces must be dried prior to application of coating.

In cases where there is a large amount of contamination or heat treated steel, a commercial blast is acceptable in accordance with NACE #3 or SSPC-SP-6-63 specifications. Surface profile or anchor pattern shall be 20–25% of the recommended dry film thickness.

Thinning
Reduce P-413 with S-275 solvent to 13–13.5 seconds on ISO Dip 3 mm Cup. This requires approximately a 1:1 dilution by volume.

The amount of thinner required is dependent upon temperature, ventilation, humidity, application type and desired film thickness.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Application

Application is specific to heat transfer components, for other parts — please contact Heresite.

Immersion Application:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Consult Heresite for tank and pump recommendations.
4. Ensure as the part is prepared for immersion, one will have a low point for drainage.
5. Immerse the cleaned part for 15 seconds in the reduced P-413.
6. Upon removal of the part from the coating, apply light air pressure (approximately 15 psi) using an Air Knife or similar device to spread the air flow. Using the compressed air, remove excess coating. Minimal brushing should be required.
7. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
8. Typically, a two coat immersion process is required to achieve 1.0 to 1.5 mil DFT. An intermediate bake is required between coats — see baking schedule.
9. It may be deemed desirable to apply a final aesthetic spray. This can be accomplished immediately after the final immersion is accomplished and prior to final bake.
10. During immersion application, the viscosity must be maintained and monitored. It is recommended that the viscosity be checked every hour to ensure compliance with the specification of 13–13.5 seconds. Additional solvent and coating can be added to adjust viscosity as needed.

Spray Application for Final Aesthetic Spray:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective.
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Typically, a one coat process is required to achieve 0.5 to 1.0 mil DFT.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

Spray Application for Higher Film Build — 4–6 mil:

1. Consult SDS prior to use.
2. Do not apply if temperature is less than 5°F above dew point, or if temperature is below 45°F.
3. Use standard production type spray equipment (conventional, HVLP, airless, etc.). A few starting recommendations can be found below:

Guns	Fluid	Air
DeVilbiss JGA-510	E	46MP
Binks #2100	67-SS	46-21MD-2 or 3
Binks #95	66-SS	66-SD
Graco Air Pro HVLP		

4. Spray viscosity will be dependent on type of equipment being used. It has been seen that spraying at immersion viscosity is very effective (13.0–13.5 seconds ISO Dip 3 mm).
5. Spray equipment: always flush spray equipment with solvent to clean prior to applying coating.
6. Air supply must be uncontaminated. Adjust air pressure to approximately 50 pounds at the gun and provide 15–20 pounds at pressure pot. Adjust spray gun by first opening liquid valve and then adjust air valve to give approximately an 8"–12" fan, holding gun perpendicular to the surface at a distance of 12".
7. Apply a mist bonding pass.
8. Allow to flash off for approximately a minute, but not long enough to allow film to completely dry.
9. Apply 3–4 crisscross multi-passes maintaining a wet appearing film. Allow a minimum of 10 minutes to allow the slow solvents to evaporate. Then apply another 2–3 crisscross multi-passes.
10. Air dry a minimum of 15 minutes with ventilation prior to introducing heat.
11. Intermediate bake at 130°C (metal temperature) for a minimum of 10 minutes.
12. Repeat steps 7–10.
13. Final bake per the instructions within the bake schedule.
14. Typically, a two to three coat process is required to achieve 4.0 to 6.0 mil DFT.

Bake Schedule

Intermediate Bake:

1. 90°C (metal temperature) for a minimum of 10 minutes.
   a. To decrease the bake time, a maximum temperature of 130°C may be used.

Final Bake:

1. "Normal" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 15 minutes, then increased to 190°C. 190°C (metal temperature) held for 45 minutes.
2. "Soft Solder" Bake:
   a. 90°C (metal temperature) held for 10 minutes, then increased to 160°C. 160°C (metal temperature) held for 130 minutes.

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

CAUTION: CONTAINS FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKERS MUST WEAR FRESH AIR LINE RESPIRATORS. PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMERS SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESS OR IMPLIES, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Effective date: 10/09/17

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HERESITE® PROTECTIVE COATINGS, LLC

HERESITE

PROTECTIVE COATINGS®
LLC

Chemical Resistance Guide

Test data for the products published in this guide are determined by immersion of a coated panel in the chemical being tested. Additional information on the coating's resistance is achieved through the coating's history in actual service environments.

Temperature and concentration data are not necessarily the maximum operating conditions. They are the temperature and concentrations at which the specified coating system has been tested. The coating system may be suitable for higher temperatures and different concentrations but additional information or testing would be required.

Date: May 2019
(supersedes all previous copies)

To the best of our knowledge, the technical data contained herein is true and accurate at the date of insurance and are subject to change without prior notice. User must contact laboratory to verify corrections before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to strict quality control. We assume no responsibility for coverage, performance, or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost are subject to change without prior notice. **NO OTHER GUARANTEE OF ANY KIND IS MADE BY SELLER, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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HERESITE PROTECTIVE COATINGS, LLC

Key to the Guide

A	Coating is resistant, for continuous immersion, against attack from the chemical listed
B	Coating is resistant against attack from fumes of the chemical listed. For immersion service of the chemical please refer to a coating with an **A** or **LR** listed or contact Heresite Protective Coatings.
C	Coating will provide the necessary 72 hours resistance required for secondary containment. Coatings are not recommended for continuous immersion.
LR	Limited Recommendation, contact Heresite Protective Coatings, Inc. for assistance.
NR	Coating is not recommended for the service conditions.
Blank	Coating has insufficient test data for the service conditions.

Coatings are continuously being tested in a wide rage of service conditions. If you condition is not among the ones listed contact Heresite Protective Coatings at 920-684-6646 for assistance.

Coatings Included in This Guide

P-403L	High bake phenolic. P-403L offers excellent resistance to solvents, acids and salts, including 70-98% sulfuric acid at tmperatures up to 120F.
P-403L/L-66L	High gloss phenolic system designed for use when abrasion and release properties are required. This system utilizes P-403L as the primer and L-66L as the topcoat.
EP-6379	Baked epoxy phenolic. EP-6379 is resistant to a wide range of pH environments found in fume control devices, chemical, drill, process pipes and is also used in storage and ISO tanks.
P-413	Modified baked phenolic designed for HVAC equipment and light gauge metal. In addition to marine and salt air environments, the P-413 family of coatings will withstand exposure to an extensive variety of corrosive and chemical fumes and condensate.
VR-514	Air dry phenolic. Excellent for resistance to corrosive fume atmospheres and is particularly good in marine and salt air environments. Typical applications include swimming pools, waste water, marine environments and as a general maintenance coating.
UC-5500 Series	Polyurethane. Formulated as a top coat for other Heresite coatings with outstanding UV resistance with excellent weathering qualities, along with good flexibilit yand good abrasion resistance.

For further information, please contact Heresite Protective Coatings, Inc.

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HERESITE PROTECTIVE COATINGS, LLC

Chemical Synonyms

Common Name	Chemical Name
Alum	Aluminum Sulfate
Barite	Barium Sulfate
Baking Soda	Sodium Bicarbonate
Bleach	Sodium Hypochlorite
Calcite	Calcium Carbonate
Caustic	Sodium Hydroxide
Caustic Potash	Potassium Hydroxide
Chalk	Calcium Carbonate
Cupric, Cuprous	Copper II & Copper I
Dental Gas	Nitrogen I Oxide
Diuretic Salt	Potassium Acetate
Dry Ice	Carbon Dioxide
Epsom Salt	Magnesium Sulfate
Ferric, Ferrous	Iron III & Iron II
Graphite	Carbon

Common Name	Chemical Name
Laughing Gas	Nitrogen I Oxide
Lime	Calcium Oxide
Lye	Sodium Hydroxide
Magnesia	Magnesium Oxide
Methylene Bromide	Methane Dibromide
Methylene Chloride	Methane Dichloride
Muriatic Acid	Hydrochloric Acid
Potash	Potassium Carbonate
Phenol	Carbolic Acid
Phosgene	Carbonyl Chloride
Pyrite	Iron Disulfide
Soda Ash	Sodium Carbonate
Stannic, Stannous	Tin
Sulphate	Sulfate
Table Salt	Sodium Chloride

Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Acetaldehyde		60ºF	A			B	NR
Acetaldehyde		100ºF	A			B	NR
Acetic Acid	5%	100ºF	LR			B	
Acetic Acid	10%	70ºF	LR	LR	B	B	NR
Acetic Acid	10%	100ºF	LR	LR	B	B	NR
Acetic Acid	10%	150ºF	B	B	B	B	NR
Acetic Acid	25%	70ºF	LR	LR	LR	B	NR
Acetic Acid	25%	150ºF	B	B	NR	B	NR
Acetic Acid	50%	100ºF	LR	LR	NR	B	NR
Acetic Acid	50%	120ºF	LR	NR	NR	B	NR
Acetic Acid	50%	150ºF	LR	NR	NR	B	NR
Acetic Acid	56%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	100ºF	B	B	NR	B	NR
Acetic Acid	100%	120ºF	B	B	NR	B	NR
Acetic Acid	100%	150ºF	B	B	NR	B	NR
Acetic Acid, Glacial		70ºF	B	B		B	
Acetic Acid, Vapors		350ºF	A	A			NR
Acetic Acid100% & ½% Sulfuric Acid		77ºF	B	B			
Acetic Anhydride	100%	70ºF	A	A		B	NR
Acetic Anhydride/ Acetic Acid (50%/50%)		175ºF		NR			
Acetone		70ºF	A	A	A	B	NR
Acetone		100ºF	A	A	B	B	NR
Acetone		134ºF	A	A	B	B	NR
Acetophenone		100ºF	A				
Acetylene		150ºF	A	A		B	B
Acid Copper Bath		150ºF				B	B
Acid-Klenz (Klenzode Products)		100ºF	A				
Acrylamide		100ºF	A				
Acrylic Latex 103-100		150ºF	A	A		B	
Acrylic Syrup		100ºF	A				
Acrylonitrile		70ºF	A	A		B	
Acrylonitrile		171ºF	A	A			
Activated Carbon, Slurry		70ºF	A				
Adipic Acid/Ethyl Alcohol 60%/40%		70ºF	A			B	
Agree® Shampoo	100%	150ºF	A	A	A		
Alcohol Mash (distillery)		210ºF	A	A		B	B
Alcolated Cresol		180ºF	A				
Alkaline Electrotinning		150ºF				B	B
Alkyl Benzene		100ºF	A			B	
Alkyl Chloroformate	100%	68ºF	A			B	
Alkylaryl Sulfonate	2%	70ºF	A	A			

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Heresite Chemical Resistance Guide

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Alkylaryl Sulfonate	2%	100ºF	A	A			
Alkylaryl Sulfonate	100%	100ºF	A	A			
Alkylaryl Sulfonate	100%	151ºF	NR				NR
Allyl Alcohol		100ºF	A	A		B	
Allyl Chloride	100%	68ºF	A	A			
Allyl Gylcidyl Ether		70ºF	A				
Aluminum Acetate	5%	100ºF	A				
Aluminum Chloride	10%	150ºF	B	A		B	B
Aluminum Chloride	11%	120ºF	B	A		B	B
Aluminum Chloride	25%	150ºF				B	B
Aluminum Chloride	100%	70ºF	B	LR		B	B
Aluminum Chloride/Benzene	13%	70ºF	B				
Aluminum Chlorhydrate		120ºF	A	A	A	B	
Aluminum Fluoride	5%	100ºF				B	B
Aluminum Fluoride	5%	150ºF				B	B
Aluminum Nitrate	50%	70ºF	B			B	B
Aluminum Oxide (in Sulfuric Acid)		120ºF	A	A	A	B	
Aluminum Oxide (Trihydrate)		120ºF	A	A	A	B	
Aluminum Sulfate	46½%	70ºF	LR	A	A	B	B
Aluminum Sulfate	46½%	122ºF	LR	LR	A	B	B
Aluminum Sulfate	46½%	200ºF	LR			B	B
Aluminum Sulfate/Copper Sulfate		120ºF	LR	LR	A	B	
Ammonia	10%	100ºF	A			B	B
Ammonia	10%	113ºF	A			B	B
Ammonia, Aqua	29%	100ºF	A			B	NR
Ammonia, Aqua	34%	100ºF	A			B	NR
Ammonium Acetate	25%	150ºF	B	A		B	B
Ammonium Acetate	75%	200ºF		A			
Ammonium Bifluoride		140ºF	A				
Ammonium Carbonate	25%	70ºF	A				
Ammonium Chloride	33%	110ºF	A	A		B	B
Ammonium Diurinate		100ºF	A				
Ammonium Fluoride		150ºF					NR
Ammonium Hydroxide	5%	70ºF	A	A		B	NR
Ammonium Hydroxide	10%	100ºF	LR	LR	NR	B	NR
Ammonium Hydroxide	10%	150ºF	LR	LR	NR		NR
Ammonium Hydroxide	25%	70ºF	A		LR	B	NR
Ammonium Hydroxide	29%	70ºF	A	B		B	
Ammonium Hydroxide	29%	100ºF	A	NR	NR	B	NR
Ammonium Hydroxide	29%	120ºF	B	NR	NR	B	NR
Ammonium Hydroxide	30%	150ºF	B	NR	NR		NR

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Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Ammonium Lauryl Sulfate	100%	150ºF			NR		
Ammonium Nitrate	50%	70ºF	A	A		B	B
Ammonium Nitrate	50%	212ºF	A	A	B	B	B
Ammonium Nitrate/Urea 42%/32%		100ºF	A				
Ammonium Persulfate	45%	110ºF	B			B	B
Ammonium Phosphate, Monobasic	50%	70ºF	A			B	B
Ammonium Stearate		70ºF	A				
Ammonium Stymer Solution		70ºF	A				
Ammonium Sulfamate		70ºF	A	A			
Ammonium Sulfate, Liquid slurry		70ºF	A			B	B
Ammonium Sulfate, Liquid slurry		200ºF	A				
Ammonium Sulfate/Sodium Sulfate 6%/6%		150ºF	A				
Ammonium Sulfide	40%	100ºF	A		A	B	B
Ammonium Sulfite	50%	70ºF	A				
Ammonium Thiocyanate Solution		100ºF	A			B	B
Ammonium Thiosulfate	60%	100ºF	A	A			
Amyl Acetate	100%	70ºF	A	A		B	
Amyl Acetate	100%	100ºF	A	A	NR	B	B
Amyl Acetate	100%	150ºF	A	A	A	B	
Amyl Alcohol		70ºF	A	A	B	B	
Amyl Alcohol		150ºF	A	A		B	
Aniline		100ºF	A	A		B	B
Aniline Hydrochloride		150ºF				B	B
Aqualum (Altivia)		120ºF	LR	LR	A	B	
Aqua regia		70ºF	NR			NR	NR
Aqueous Ammonium Chloride17% & 4% MeOH		147ºF	A				
Arquad 2HT (Armour®) 75% Active		167ºF	A				
Arquad and Isopropyl Alcohol		158ºF	A				
Ascorbic Acid	10%	150ºF	A	A			
Arsenic Acid	50%	70ºF	LR				NR
Aviation Fuel		70ºF	A	A	A	B	
Boric Acid	100%	210ºF	B	A		B	B
Brake Fluid HD557		150ºF	A				
Brass Plating		150ºF					NR
Brine	6.7%	290ºF	A			B	B
Brine	12.3%	203ºF	A			B	B
Brine	12.3%	250ºF	A			B	B
Brine	29.2%	100ºF	A			B	B
Bromine	100ppm		B	B		B	
Bronze Plating		150ºF					NR
Butadiene		70°F	A			B	B

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Butadiene		150ºF	A			B	B
Butane		70ºF	A	A	A	B	B
Butane		150ºF	A	A	A	B	B
Butene		70ºF	A	A		B	
Butyl Acetate		70ºF	A	A	NR	B	NR
Butyl Acrylate		70ºF	A			B	
Butyl Alcohol	100%	150ºF	A	A	B	B	B
Butyl Cellosolve (Glycol Ether EB)		100ºF	A			B	
Butyl Phenol		210ºF	A				
Butylene		70ºF	A			B	B
1,3-Butylene Glycol		100ºF	A			B	
Butylene Oxide		100ºF	A				
Butyraldehyde	98%	70ºF	A			B	
Butyraldehyde	98%	150ºF	A			B	
Butyric Acid		70ºF	A				
Butyrolactone		70ºF	A	A		B	
Cadmium Cyanide		150ºF					B
Calcium Bisulfate		70ºF				B	B
Calcium Bisulfite		70ºF				B	B
Calcium Bromide	100%	150ºF	A	A	A	B	B
Calcium Carbonate	10%	150ºF	A	A		B	B
Calcium Carbonate	20%	200ºF	A				
Calcium Carbonate	100%	70ºF	A			B	B
Calcium Chloride	50%	70ºF	A	A		B	B
Calcium Chloride	70%	280ºF	A	A		B	B
Calcium Chloride	100%	150ºF	A	A		B	B
Calcium Cyanamide		70ºF	A			B	B
Calcium Cyanide		70ºF				B	B
Calcium Fluoride	25%	150ºF	A			B	
Calcium Hydroxide	50%	150ºF	A			B	B
Calcium Hypochlorite	30ppm	100ºF	A			NR	NR
Calcium Hypochlorite	5%	70ºF	NR			NR	NR
Calcium Lignosulfate	100%	150ºF	A		B		
Calcium Lignosulfate	100%	180ºF	A		NR		
Calcium Nitrate		150ºF				B	B
Calcium Sulfate		150ºF				B	B
Caprylic Acid	100%	70ºF	A	A	A	B	B
Caprylic Acid	100%	150ºF	A	A	B	B	
Caramel Color	100%	100ºF	A	A	A	B	B
Carbon Bisulfide		100ºF	A	A	A	B	NR
Carbon Dioxide		70ºF	A	A		B	B

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Carbon Monoxide		70ºF	A			B	B
Carbon Tetrachloride		70ºF	A	A		B	NR
Carmel		100ºF	A	A			
Casein		70ºF	A			B	B
Cashew Nut Oil		70ºF	A	A		B	B
Castor Oil		70ºF	A			B	B
CAT ® ELC (Extended Life Coolant) Concentrate CATEC-1	100%	70ºF				A	
Caustic Lime (Dehydrated)		150ºF				B	B
Caustic Potassium (Dehydrated)		150ºF				B	B
Cellosolve (Ethyleneglycol Ethylether)		100ºF	A	A		B	NR
Cherry Soda (Concentrate)		70ºF	A				
Chloric Acid	30%	100ºF	A		NR		
Chlorine, Fumes	100ppm	100ºF	B			B	LR
Chlorine, Water	0.40%	70ºF	B			B	LR
Chloral		150ºF	A				NR
Chloroaniline		70ºF	A				
Chlorobenzene (Anhydrous)		100ºF	A				
Chlorobenzene	10%	220ºF		A			
Chloroform	100%	70ºF	A	A		B	NR
Chloroform	100%	144ºF	A	A		B	NR
Chloropicrin		100ºF	A			B	B
Chlorosulfonic Acid	100%	70ºF	B	NR	NR		
Chlorotoluene		194ºF		A			
Chlorowax		100ºF	A				
Chlorox ® (See also Sodium Hypochlorite)	100%	70ºF	NR	NR	NR	NR	NR
Chocolate Syrup		70ºF	A			B	
Choline Chloride	70%	150ºF	A	A	A	B	NR
Chrome Plating Bath		150ºF					NR
Chromic Acid	10%	70ºF	B			B	B
Chromic Acid	20%	100ºF	A				
Chromic Acid	30%	70ºF	B			B	NR
Chromic Acid	50%	70ºF	B			B	NR
Citric Acid	25%	150ºF	LR	LR		B	B
Citric Acid	50%	70ºF	LR	LR		B	B
Citric Acid	50%	150ºF	LR	LR		B	B
Coal Tar		150ºF	A			B	NR
Cobalt Sulfate Solution	pH 6.0	170ºF	A				
Coca Cola Concentrate		70ºF	A	A	A		
Coconut Oil	100%	70ºF	A	A		B	B
Coconut Oil	100%	180ºF	A	A		B	B
Coke Oven Gas		150ºF	A	A		B	

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Collodion Solution		70ºF	A	A			NR
Copper Acetate	50%	70ºF	A			B	
Copper Chloride		70ºF	A			B	B
Copper Cyanide		70ºF	A			B	B
Copper Nitrate		70ºF				B	B
Copper Plating Solution		150ºF				B	B
Copper Sulfate	10%	100ºF	LR	A	B	B	B
Copper Sulfate	10%	120ºF	LR	A	B	B	B
Copper Sulfate	10%	150ºF	LR	B	B	B	B
Copper Sulfate	20%	100ºF	LR	A	A	B	B
Copper Sulfate	20%	120ºF	LR	A	A	B	B
Copper Sulfate	50%	100ºF	LR			B	B
Copper Sulfate	50%	150ºF	LR			B	B
Copper Sulfate (Anhydrous)	100%	140ºF	A	A			
Corn Mash		100ºF	A	A		B	B
Corn Oil (Mazola®)		70ºF	A			B	B
Corn Oil		180ºF	A			B	B
Corn Syrup	100%	70ºF	A	A	A	B	
Corn Syrup	100%	150ºF	A	A	A	B	
Cottonseed Oil		150ºF	A			B	B
Creosote		150ºF	A	A		B	NR
Cresol	100%	150ºF	A	A		B	NR
Crotonaldehyde	100%	70ºF	A			B	
Crude Oil		150ºF	A			B	B
Crude Oil @ 650PSI		200ºF	A			B	
Cyanide Cadmium Bath		100ºF				B	B
Cyanide Plating		100ºF				B	B
Cyanide Zinc		100ºF				B	B
Cyclobutane		55ºF	A			B	B
Cyclohexane		70ºF	A			B	B
Cyclohexanone		100ºF	A			B	NR
Cyclohexene		70ºF	A			B	B
Cyclopropane		70ºF	A			B	B
Dawn® Dish Soap	100%	150ºF	A				
Decon-Clean®	100%	70ºF				A	B
Decon-Quat®	100%	70ºF				A	B
Decyl Alcohol		70ºF	A			B	B
Dextrose		150ºF	A	A		B	B
Diacetone Alcohol	100%	70ºF	A	A	A	B	B
Diacetone Alcohol	100%	100ºF	A	A	A	B	B
Diacetone Alcohol	100%	120ºF	A	A	A	B	B

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Diacetone Alcohol	100%	131ºF	A	A	A	B	B
Diallyl Amine		70ºF	A				
Dibutyl Maleate		70ºF		A			
Dibutylphthalate		70ºF	A			B	
Dichloroacetic Acid	25%	70ºF		A			
O-Dichlorobenzene		100ºF	A			B	
Diesel Fuel	100%	60ºF	A	A	A	B	B
Diesel Fuel	100%	120ºF	A	A	A	B	B
Diethanolamine	100%	125ºF	A				
Diethanolamine	100%	150ºF	LR				
Diethanolamine	100%	350ºF	NR				
Diethyl Phthalate	100%	176ºF	A				
Diethyl Sulfate		100ºF	A				
Diethylene Glycol	50%	70ºF	A			B	
Diethylene Glycol	100%	100ºF	A			B	
Diethylene Glycol Monobutyl Ether (Glycol Ether DB)		100ºF	A			B	
Diethylenetriamine		70ºF	A	A			
Difluorophosphoric Acid		70ºF	NR				
Dihydrogenated Tallow Dimethylammonium Chloride		167ºF	A				
Dimethyl Ethanolamine (tech grade)		70ºF	A				
Dimethyl Phthalate		70ºF	A			B	B
Dimethyl Propane		70ºF	A			B	
Dimethyl Sulfoxide (DMSO)		70ºF	A				
Dimethyl Sulfoxide (DMSO)		302ºF	NR				
Dimethylamine		100ºF	A				NR
Dimethylamine (Anhydrous)		100ºF	A				NR
Dimethylformamide		70ºF	A				
Dioctyl Adipate		100ºF	A				
Dioctyl Phthlate Monomeric		100ºF	A	A			
Dioctyl Phthlate Monomeric		140ºF	A	A			
Diphenol Amine		150ºF	A				
Dipropylene Glycol	5%	100ºF	A	A		B	
Dipropylene Glycol	100%	150ºF	A	A		B	
Dipropylene Glycol Monomethyl ether (DPM)		100ºF	A	A		B	
Disodium Phosphate	5%	70ºF	A	A			B
Dodecylbenzene Sulfonate		125ºF	A			B	B
Dodecylbenzene Sulfonate (Anhydrous)		125ºF	A				
Dolchem®	100%	150ºF	A				
Dow® heavy duty oven cleaner	100%	70ºF	LR	NR	A		
Dow® heavy duty oven cleaner	100%	100ºF	NR	NR	B		
Dowtherm		70ºF				B	B

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Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Emulsion asphalt	100%	70ºF					NR
Epichlorohydrin		100ºF	A				
Ethane	100%	70ºF	A	A		B	B
Ethanol Amine		70ºF		A			
Ethyl Acetate	100%	100ºF	A	A	A	B	NR
Ethyl Acetate	100%	120ºF	A	A	A	B	NR
Ethyl Acetate	100%	150ºF	A	A	A	B	NR
Ethyl Acetate	100%	171ºF	A	A		B	NR
Ethyl Acetoacetate		70ºF	A	A			
Ethyl Acrylate		70ºF	A			B	
Ethyl Alcohol (Ethanol)	50%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	50%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	77%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	95%	70ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	100ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	95%	150ºF	A	A	A	B	B
Ethyl Alcohol (Ethanol)	97%	150ºF	A	A		B	B
Ethyl Alcohol (Ethanol)	100%	173ºF	A	A		B	B
Ethyl Amide	70%	70ºF	A				NR
Ethyl Amide (Anhydrous)	100%	70ºF	A				NR
Ethyl Chloride	100%	70ºF	A	A		B	
Ethyl Chloride	100%	150ºF	A	A		B	
Ethyl Ether (fumes)		70ºF	A			B	NR
Ethyl Ether (fumes)		94ºF	A			B	NR
2-Ethyl Hexacrylate		100ºF	A			B	B
2-Ethyl Hexenol		100ºF	A			B	
Ethyl Silicate Conc.		100ºF	A				
Ethylene Bromide	100%	176ºF	A			B	
Ethylene Chloride		100ºF	A	A		B	
Ethylene Chlorohydrin		100ºF	A	A		B	
Ethylene Chlorohydrin	100%	194ºF		A			
Ethylenediamine		70ºF	A	A			
Ethylenediaminetetracetic Acid (EDTA)	40%	70ºF	A				
Ethylene Dichloride		100ºF	A			B	
Ethylene Glycol	100%	70ºF	A	A	A	B	B
Ethylene Glycol	100%	120ºF	A	A	A	B	B
Ethylene Glycol	100%	150ºF	A	A		B	B
Ethylene Glycol Monomethyl Ether Acetate		100ºF	A			B	
Ethylene Oxide		100ºF	A				NR
Fatty Acid (Coconut)		180ºF	A			B	B
Fatty Acid (Cotton)		180ºF	A			B	B

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Fatty Acid (Oleic)		180ºF	A			B	B
Fatty Acid (Soya)		180ºF	A			B	B
Ferric Ammonium Citrate Solution		100ºF	A				
Ferric Chloride	10%	150ºF	A	A	A	B	B
Ferric Chloride	50%	70ºF	A	A	A	B	B
Ferric Chloride	50%	150ºF	A	A	A	B	B
Ferric Nitrate		150ºF				B	B
Ferric Sulfate		150ºF	A				B
Ferrous Sulfate	10%	150ºF	A	A		B	B
Ferrous Sulfate	25%	150ºF				B	B
Ferrous Sulfide	10%	150ºF	A	A			
Ferrous Sulfate/Hydrochloric Acid 50%/20%		100ºF	B				
Finesse® Shampoo	100%	150ºF	A	A	A		
Fish Oil		180ºF	A			B	B
Floorstar® TFRII	Conc.	150ºF	NR	NR	NR		
Fluosilic Acid		150ºF					NR
Formaldehyde	0.17%	150ºF	A			B	B
Formaldehyde & Methyl Alcohol (37%-7%)		70ºF	A	A	A	B	B
Formaldehyde & Methyl Alcohol (37%-7%)		150ºF	A	A	B	B	B
Formaldehyde (unstabalized)	44%	130ºF	A			B	B
Formaldehyde	50%	150ºF	A		B	B	B
Formic Acid	10%	70ºF	LR	LR		B	NR
Formic Acid	10%	150ºF	LR				NR
Formic Acid	90%	100ºF	NR				NR
Formic Acid	100%	70ºF	B			B	NR
Formic Acid	100%	125ºF	NR				NR
Freon		100ºF	A	A		B	NR
Fruit Juice		100ºF	A	A		B	B
Fuel Oil		100ºF	A	A		B	B
Fumaric Acid	10%	212ºF	A	A			
Furan		90ºF	A			B	
Furfuryl Alcohol		70ºF	A	A	A	B	
Furfurylamine		70ºF	A				
Gallic Acid		100ºF				B	B
Gasoline, Aviation		70ºF	A	A	A	B	B
Gasoline, Leaded		100ºF	A	A	A	B	B
Gasoline, Unleaded	100%	70ºF	A	A	A	B	B
Gasoline, Unleaded	100%	150ºF	A	A	A	B	B
Gasoline, White		70ºF	A	A	A	B	B
Gelatin		100ºF	A	A		B	B
Gluconic Acid	50%	100ºF	A				

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Glucose		70ºF	A			B	B
Glycidyl Phenylether		70ºF	A			B	
Glycerine		70ºF	A			B	B
Glycerine		200ºF	A			B	B
Glycolic Acid (Hydroxyacetic Acid)	70%	140ºF	A				
Glycols	30%	70ºF	A			B	B
Green Liquor		150ºF	LR			B	B
Heptane		100ºF	A	A		B	B
Heptanoic Acid		70ºF	A				
Hevea® Latex Type k5		70ºF	A			B	B
Hexane		150ºF	A	A			B
Hexane		350ºF	A	A			
1,6-Hexandiol		150ºF	A	A	A	B	B
Hexametaphosphate		100ºF	A				
Hexamethylenetetramine		150ºF	A	A	B		NR
Hilex® Bleach (See Sodium Hypochlorite)		70ºF	NR			NR	NR
Hydraulic Fluid (Houghtosafe 1120)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 56/60)		140ºF	A			B	
Hydraulic Fluid (Houghtosafe 620)		140ºF	A			B	
Hydraulic Fluid (skybtul)		50ºF	A			B	
Hydraulic Fluid (skybtul)		150ºF	A			B	
Hydrazine		100ºF	B			NR	
Hydrobromic Acid	2½%	70ºF	B	B	B	B	NR
Hydrobromic Acid	5%	70ºF	B	B	B	B	NR
Hydrobromic Acid	10%	150ºF	B	B	B	B	NR
Hydrobromic Acid	12½%	70ºF	B	B	LR	B	NR
Hydrobromic Acid	15%	70ºF	NR	LR	LR	B	NR
Hydrobromic Acid	20%	70ºF	NR				NR
Hydrobromic Acid	25%	70ºF	NR				NR
Hydrobromic Acid	30%	150ºF	NR			NR	NR
Hydrobromic Acid	48%	150ºF	NR	NR	NR	NR	NR
Hydrochloric Acid	2½%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	5%	70ºF	LR	LR	LR	B	B
Hydrochloric Acid	10%	70ºF	B	B		B	B
Hydrochloric Acid	10%	100ºF	B	B	B	B	B
Hydrochloric Acid	10%	150ºF	NR				B
Hydrochloric Acid	12½%	70ºF				B	B
Hydrochloric Acid	15%	70ºF				B	B
Hydrochloric Acid	20%	70ºF	B			B	B
Hydrochloric Acid	20%	100ºF	B			B	B
Hydrochloric Acid	20%	185ºF	NR				NR

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Hydrochloric Acid	30%	100ºF	B			NR	B
Hydrochloric Acid	30%	150ºF	NR				NR
Hydrochloric Acid	37%	70ºF					NR
Hydrochloric Acid	37%	150ºF	NR		NR		NR
Hydrocyanic Acid		100ºF					B
Hydrofluoric Acid	2%	70ºF				B	
Hydrofluoric Acid	10%	70ºF	NR				NR
Hydrofluoric, Vapors		212ºF	NR				NR
Hydrofluorosilic Acid	29%	100ºF	B				NR
Hydrogen Gas		70ºF	A	A		B	B
Hydrogen Gas		350ºF		A			
Hydrogen Peroxide	1%	70ºF				B	
Hydrogen Peroxide	30%	374ºF		B		NR	NR
Hydrogen Peroxide	90%	150ºF	NR	NR		NR	NR
Hydrogen Sulfide	3%	70ºF	A		NR	B	B
Hydrogen Sulfide	5%	210ºF	A		NR		
Hydroquinone		70ºF	A				
Hydroxyacetic Acid		77ºF	A	A			
Hydroxyacetic Acid		100ºF	A				
Hypochloric Acid		70ºF	NR			NR	NR
Hyposulfite		100ºF				B	B
Ink		100ºF	A	A		B	B
Insecticide Bidrin 8 (Amvac)	Conc.	70ºF	A		A		
Insecticide CDMAA (Amvac)	Conc.	70ºF	A	A	A		
Insecticide Naled (Amvac)	Conc.	70ºF	A	A	NR		
Insecticide Nifs T (Monsanto)		100ºF	A				
Iodine		75ºF	A			B	
Iron Pickle Liquor		150ºF				B	B
Iron Sulfate		100ºF	A	A		B	B
Iso-par (Isoparaffinic material)		140ºF	A				
Isobutane		70ºF	A			B	B
Isobutylaldehyde		70ºF	A			B	
Isobutyl Alcohol		70ºF	A			B	B
Isobutyl Alcohol/Formaldehyde 60%/40%		100ºF	A				
Isooctyl Alcohol		70ºF	A			B	B
Isophorone		70ºF	A			B	
Isopropyl Alcohol		70ºF	A	A		B	B
Isopropyl Alcohol		150ºF	A	A	A	B	B
Isopropyl Acetate		70ºF	A	A		B	
Isopropyl Acetate		200ºF	A	A			
Jet Fuel		70ºF	A	A		B	B

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Jet Fuel		100ºF	A	A		B	B
Jet Fuel JP-5		120ºF	A	A		B	B
Joy® Dish Soap		150ºF	A		A		
Kaboom®		120ºF	LR	LR	A	B	
Karo Syrup		70ºF	A	A	A	B	B
Kelvar		140ºF	A				
Kerosene		100ºF	A	A		B	B
Kopper Star Distillate		140ºF	A				
Lacquor		100ºF	A			B	NR
Lacquor Solvent		100ºF	A			B	NR
Lactic Acid	10%	140ºF	LR	LR		B	B
Lactic Acid	22%	100ºF	A				
Lactic Acid	100%	100ºF	A	A		B	B
Lanoline® Lotion Shampoo Concentrate		70ºF	A				
Lard		70ºF	A				
Latex		100ºF	A			B	B
Latex #512K (Dow®)		70ºF	A			B	B
Latex GR-S Type 3		77ºF	A	A		B	B
Latex Rubber		70ºF	A			B	B
Leachate Solution (Sour Water)		150ºF					
Lead Acetate	10%	150ºF	A	A		B	
Levulinic Acid		77ºF	A				
Lignin Sulfate		100ºF	A				
Lime (Chopped)		100ºF	A				
Linoleic Acid		100ºF	A			B	B
Lithium Chloride		70ºF	LR			B	B
LP Gas		100ºF	A	A		B	
LpHst (Steris product)	100%	70ºF				A	
LpHst (Steris product)	0.01%	70ºF				A	
Lube Oil (Pennzoil 10W30)		150ºF	A	A	A	B	B
Lubricating Oil		70ºF	A	A	A	B	B
Lubricating Oil		182ºF	A	A		B	B
Lysol®		70ºF	A				
Magnesium Carbonate		150ºF	A			B	B
Magnesium Chlorate		150ºF				B	B
Magnesium Chloride	40%	100ºF	A	A		B	B
Magnesium Chloride	5%	70ºF				A	
Magnesium Chloride	50%	70ºF	A			B	B
Magnesium Hydroxide Slurry		150ºF	A		A	B	B
Magnesium Nitrate		150ºF				B	B
Magnesium Oxide	20%	70ºF	A			B	B

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Magnesium Sulfate		100ºF	A			B	B
Magnesium Sulfate		150ºF	A			B	B
Maleic Acid	50%	70ºF	A			B	B
Maleic Anhydride		100ºF	A				
Maleic Anhydride		250ºF	A				
Malic Acid		100ºF	LR			B	B
Manganese Ammonium Sulfate		100ºF				B	B
Manganese Chloride		100ºF	A	A		B	B
Manganese Sulfate		150ºF	A			B	B
Martan B® liquid (Marathon Oil)		100ºF	A				
Mayonnaise		150ºF	A		A		
MEK Peroxide (45% in Dimethyl Phthalate)		70ºF	A	B	NR	B	NR
Melamine		70ºF	NR	NR			
Melamine Resin Solution		100ºF	A			B	B
Mercuric Chloride		100ºF	A	A		B	B
Methyl Acetate	96%	100ºF	A			B	NR
Methyl Acrylate		100ºF	A	A		B	
Methyl Alcohol	100%	70ºF	A	A	A	B	B
Methyl Alcohol	100%	120ºF	A	A	A	B	B
Methyl Alcohol	100%	148ºF	A	A	B	B	B
Methyl Butane		100ºF	A			B	B
Methyl Cellosolve (Glycol EM)		70ºF	A	A	B	B	
Methyl Cellosolve (Glycol EM)		120ºF	A	A	B	B	NR
Methyl Chloride		100ºF	A			B	NR
Methyl Chloride		150ºF	A			B	NR
Methyl Ether		50ºF	A			B	NR
Methyl Ethyl Ketone	100%	100ºF	A	A	B	B	NR
Methyl Ethyl Ketone	100%	150ºF	A	A		B	NR
Methyl Fluoride		150ºF	A			B	NR
Methyl Isobutyl Carbinol		70ºF	A			B	
Methyl Isobutyl Ketone (MIBK)		70ºF	A	A		B	NR
Methyl Mercaptan		70ºF	A				
Methyl Methacrylate		100ºF	A	A	NR	B	
Methyl Propane		70ºF	A			B	B
Methylene Bromide		100ºF	A	A			
Methylene Chloride	100%	77ºF	A	A		B	NR
Methylene Chloride	100%	100ºF	A	A		B	NR
Methylene Chloride	100%	113ºF	A	A		B	NR
Methylene Chlorobromide		70ºF	A			B	NR
Methylene Diisocyanate		100ºF	A				
n-Methylpyrolidone	100%	275ºF	A			B	

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Milk (condensed)		70ºF	A			B	B
Milk (whey)		150ºF	A			B	B
Mineral Oil		70ºF	A	A		B	B
Mineral Spirits		150ºF	A	A	A	B	B
Molasses	100%	70ºF	A	A		B	B
Molasses		110ºF	A	A		B	B
Monochloroacetic Acid		100ºF	A				
Monochloropinacolone (MCP)		75ºF	A				
Monochloropinacolone (MCP)		100ºF	A				
Monoethanolamine		100ºF	NR				NR
Monofluorophosphoric Acid		70ºF	B	B			NR
Morpholine		150ºF	A				
Mustard		150ºF	A		NR		
Nalco ® 2000 / Nalcool 2000 / Nalfleet 2000	100%	70ºF				A	
Naphthalene (sulfonated)		150ºF	A			B	B
Naphtha		150ºF	A	A	A	B	B
Naphthenic Acid		100ºF	A	A		B	B
Naphthenic Acid	95%	180ºF	A	A			
1-Naphthol-4-Sulfonic Acid	7.5-8.0pH	158ºF	A			B	B
Natural Gas		100ºF	A			B	B
Neatsfoot Oil		150ºF	A	A		B	B
Neatsfoot Oil		250ºF	A	A		B	B
Nickel Acetate	50%	70ºF	A			B	B
Nickel Chloride	50%	70ºF	A			B	B
Nickel Nitrate		150ºF				B	B
Nickel Plating Solution (electroless)		212ºF	B	A			
Nickel Plating Solution		374ºF	B		B	B	B
Nickel Salts		150ºF				B	B
Nickel Sulfate		150ºF				B	B
Nitric Acid	1%	70ºF	LR	A	B	B	NR
Nitric Acid	2%	185ºF	LR		B		NR
Nitric Acid	5%	70ºF	LR	LR	LR	B	
Nitric Acid	5%	120ºF	LR	B	B		NR
Nitric Acid	10%	100ºF			NR	B	NR
Nitric Acid	10%	140ºF	NR	NR	NR	B	NR
Nitric Acid	10%	150ºF	NR	NR	NR	B	NR
Nitric Acid	10%	185ºF	NR	NR	NR		NR
Nitric Acid	15%	150ºF	NR	NR	NR		NR
Nitric Acid	25%	70ºF	B			B	NR
Nitric Acid	25%	100ºF	NR	NR	NR		NR
Nitric Acid	25%	150ºF	NR	NR	NR		NR

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Nitric Acid	50%	100ºF	NR	NR	NR		NR
Nitric Acid	70%	100ºF	NR	NR	NR		NR
Nitrobenzene		100ºF	A	A		B	NR
Nitrobenzenesulfonic Acid		100ºF	A	A			
o-Nitrochlorobenzene		180ºF	A			B	
p-Nitrochlorobenzene		100ºF	A			B	B
Nitrogen		100ºF	A	A		B	B
Nitrogen		300ºF	A	A			
Nitrophenol		250ºF	A	A	NR	B	NR
1-Nitropropane		70ºF	A			B	B
Nonylphenol		100ºF	A			B	
Nonylphenol		180ºF	A			B	
n-Octyl Alcohol		70ºF	A			B	B
Nu-Calgon Evap Pow'r-C	100%	70ºF				A	LR
Nu-Calgon Evap-Green	100%	70ºF				A	LR
Nu-Calgon Green Clean	100%	70ºF				A	LR
Nu-Calgon Cal-Green	100%	70ºF				A	LR
Nu-Calgon Tri-Pow'r HD	100%	70ºF				A	LR
Nu-Calgon TriClean 2x	100%	70ºF				A	LR
Nu-Calgon Nu-Solve NR	100%	70ºF				A	LR
p-t-Octyl Phenol		250ºF	A				
Oil, Cutting		140ºF	A			B	B
Oil, water soluble		70ºF	A			B	
Oleic Acid		70ºF	A			B	B
Oleic Acid		250ºF	A				
Oleomargarine		70ºF	A				
Oleum		100ºF	B				NR
Olive Oil		70ºF	A			B	B
Orange Concentrate		70ºF	A			B	
Orange Soda Concentrate		70ºF	A			B	
Oxalic Acid		70ºF	A			B	B
Oxalic Acid		160ºF	A			B	
Oxygen		70ºF	A	A		B	B
Ozone			NR	NR		NR	
Palm Oil		70ºF	A	A		B	B
Palm Oil		150ºF	A	A		B	B
Palm Oil (Crude)		250ºF	A	A		B	NR
Palmitic Acid		200ºF	A			B	B
Palmolive® Dish soap		150ºF	A				
Paraformaldehyde	50%	150ºF	A			B	
Paraldehyde		70ºF	A			B	

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Peanut Butter		70ºF	A	A			
Peanut Oil		70ºF	A				
1,3-Pentadiene		100ºF	A			B	B
Pepper		70ºF	A			B	
Pepperoni						NR	
Perchloric Acid	20%	70ºF		B			NR
Perchloroethylene		200ºF	A			B	NR
Phenol	3%	70ºF	A			B	NR
Phenol	5%	150ºF	A				
Phenol	50%	150ºF	A	A			
Phenol	90%	100ºF	A	A			NR
Phenol	90%	150ºF	A	A			NR
Phenol	100%	150ºF	A	A			NR
Phenylenediamine	50%	70ºF	A				
Phenylhydrazine		70ºF	B				
1-Phenyl-2-methyl-1,2-propanediamine		70ºF	A				
Phosphoric Acid	10%	70ºF	B		B	B	B
Phosphoric Acid	10%	150ºF	B	B		B	B
Phosphoric Acid	25%	100ºF	B	B	B		
Phosphoric Acid	25%	150ºF	B	B			
Phosphoric Acid	50%	150ºF	NR	NR			
Phosphoric Acid	75%	100ºF			B		
Phosphoric Acid	75%	150ºF	NR	NR			
Phosphoric Acid	85%	70ºF	B			B	B
Phosphorus Oxychloride		70ºF	A				
Phosphorus Trichloride		70ºF	A				NR
Phthalic Acid	90%	70ºF	A				
Phthalic Anhydride	80%	70ºF	A				
Phthalic Anhydride, Concentrated (Mother Liquor)		100ºF	A				
Phthalic Anhydride, molten		347ºF	A				
Pickling Acid, sulfuric		150ºF				B	B
Picric Acid		70ºF				B	B
Pine Oil		70ºF	A	A	A	B	B
Pine Oil		100ºF	A	A	A	B	B
Polyaluminum Chloride		70ºF	A				
Polyethylate Nonylphenol	70%	100ºF	A			B	
Polyethylene Glycol		100ºF	A			B	
Polyols		100ºF	A				
Polyvinyl Acetate Emulsion		70ºF	A	A		B	
Polyvinyl Chloride Pellets		70ºF					
Potassium Acetate	25%	150ºF	A	A	A	B	B

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Potassium Bicarbonate		150ºF				B	B
Potassium Bisulfate		100ºF				B	B
Potassium Bromate	7%	70ºF	A	NR	A	B	NR
Potassium Bromate	7%	150ºF	B	NR	A	B	NR
Potassium Bromide	10%	150ºF	A	A	A	B	B
Potassium Bromide	100%	70ºF	A			B	B
Potassium Carbonate	10%	150ºF	B	B		B	B
Potassium Chloride	10%	70ºF	A	A	A	B	B
Potassium Chloride	10%	150ºF	A	A	A	B	B
Potassium Chloride	25%	150ºF	A	A	A	B	B
Potassium Chloride	100%	70ºF	A			B	B
Potassium Chromate	10%	150ºF	A	A		B	
Potassium Cuprocyanide		100ºF				B	B
Potassium Cyanate		150ºF				B	B
Potassium Dichromate	10%	150ºF	A	A		B	B
Potassium Ferricyanide	25%	150ºF	A	A		B	B
Potassium Ferrocyanide		70ºF	A			B	B
Potassium Fluoride		70ºF	A			B	B
Potassium Hydroxide	10%	100ºF	NR			NR	NR
Potassium Hydroxide	10%	150ºF	NR				
Potassium Hydroxide	50%	70ºF	NR	NR		B	NR
Potassium Hydroxide	50%	150ºF	NR	NR		NR	NR
Potassium Hypochlorite		100ºF	NR			NR	NR
Potassium Iodide	25%	150ºF	A	A	B	B	B
Potassium Nitrate	50%	70ºF	A			B	B
Potassium Nitrite		150ºF					B
Potassium Oleate		150ºF	A				
Potassium Permanganate		70ºF	B			B	B
Potassium Persulfate		150ºF				B	B
Potassium Phosphate		100ºF	A			B	B
Potassium Sulfate		150ºF	A			B	B
Potassium Sulfide		150ºF				B	B
Potassium Thiosulfate		100ºF				B	B
Propane		100ºF	A	A		B	B
Proprionaldehyde		70ºF	A			B	
Proprionic Acid		70ºF	LR				
n-Propyl Acetate		70ºF	A	A		B	
n-Propyl Alcohol	100%	70ºF	A	A		B	B
n-Propyl Alcohol		100ºF	A	A		B	B
n-Propyl Alcohol		150ºF	A	A		B	B
Propylene		100ºF	A			B	B

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Propylene Glycol		100ºF	A	A		B	
Propylene Glycol Monomethyl Ether (PM)		150ºF	A	A	NR	B	
Propylene Oxide		70ºF	A				
Propylenediamine		70ºF	A				NR
Pro-Red +	10%	70ºF				NR	
Prune Juice		100ºF	A			B	B
Pyridine		100ºF	A			B	
Pyrogallic Acid		70ºF				B	B
Quaternary Ammonium Chlorides		100ºF	A				
Rapeseed Oil		70ºF	A	A		B	B
Rocadyna (PVP)		150ºF	A		NR		
Rochelle Salts		100ºF	A			B	B
Rosin (wood)		388ºF	A			B	B
Rubber Latex		77ºF	A			B	
Sake Wine		100ºF	A	A		B	
Salicylic Acid	10%	150ºF	A	A		B	B
Salomi		70ºF				NR	
Saturated Lime & Calcium		374ºF		NR			
Sauve® shampoo	100%	70ºF	A				
Scale Gone 70 (MEC Corporation)	17%	150ºF	A	A			
Silicic Acid		100ºF				B	B
Silver Nitrate	20%	150ºF	A	A	B	B	B
Silver Plating Solution		150ºF				B	B
Sodium Acetate	25%	70ºF	A	A	A	B	B
Sodium Acetate	25%	150ºF	A	A	A	B	B
Sodium Acetate	50%	150ºF	A	A	A	B	B
Sodium Aluminate		100ºF				B	B
Sodium Bicarbonate		150ºF	B			B	B
Sodium Bisulfate	10%	150ºF	A			B	B
Sodium Bisulfate	25%	150ºF	A	NR		B	B
Sodium Bisulfide		100ºF				B	B
Sodium Bisulfite	25%	150ºF	A	A		B	B
Sodium Borate		100ºF	A			B	B
Sodium Bromide		150ºF	A			B	B
Sodium Carbonate	10%	176ºF	A	B	A	B	B
Sodium Carbonate	15%	185ºF	A		A		
Sodium Carbonate	20%	140ºF	A			B	B
Sodium Carbonate	50%	70ºF	A			B	B
Sodium Carbonate	99%	100ºF	A			B	B
Sodium Chlorate	46%	120ºF	NR	NR	A		
Sodium Chlorate	50%	70ºF	A	LR	A	B	B

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Sodium Chlorate	50%	120ºF	LR	LR	A		
Sodium Chloride	5%	70ºF				A	
Sodium Chloride	5%	150ºF	A	A		B	B
Sodium Chloride	20%	77ºF	A	A		B	B
Sodium Chloride	20%	200ºF	A				
Sodium Chloride	40%	200ºF	A			B	B
Sodium Chlorite		100ºF	B			B	B
Sodium Chlorite	25%	120ºF	NR	NR	NR	NR	NR
Sodium Chromate	50%	70ºF	A			B	B
Sodium Cyanide	20%	100ºF	B			B	B
Sodium Dichromate		100ºF	B			B	B
Sodium Ferricyanide		100ºF				B	B
Sodium Fluoride	25%	122ºF	A	A		B	NR
Sodium Fluoride	25%	150ºF	A	A		B	NR
Sodium Formate	22%	180ºF	A			B	
Sodium Formate	48%	150ºF	A				
Sodium Formate	50%	250ºF				B	
Sodium Hydrosulfide (Sodium Bisulfide)		100ºF				B	B
Sodium Hydroxide	½%	176ºF	A	B	A		NR
Sodium Hydroxide	1%	100ºF			A	NR	NR
Sodium Hydroxide	2%	77ºF		B	A	B	NR
Sodium Hydroxide	2%	176ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	5%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	8%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	70ºF	NR	NR		B	NR
Sodium Hydroxide	10%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	120ºF	NR	NR	A	NR	NR
Sodium Hydroxide	10%	150ºF	NR	NR		NR	NR
Sodium Hydroxide	10%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	20%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	20%	200ºF	NR	NR		NR	NR
Sodium Hydroxide	25%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	28%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	30%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	40%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	70ºF	NR	NR	A	B	NR
Sodium Hydroxide	50%	100ºF	NR	NR	A	NR	NR
Sodium Hydroxide	50%	150ºF	NR	NR	A	NR	NR
Sodium Hydroxide	73%	160ºF	NR	NR	B	NR	NR

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Sodium Hydroxide	73%	250ºF	NR	NR		NR	NR
Sodium Hydroxide	75%	150ºF	NR	NR		NR	NR
Sodium Hypochlorite (Bleach)	5%	70ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	100ºF	NR	NR	NR	B	NR
Sodium Hypochlorite (Bleach)	5½%	140ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite (Bleach)	5½%	150ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	12½%	70ºF	NR	NR	NR	NR	NR
Sodium Hypochlorite	15%	70ºF	NR	NR		NR	
Sodium Hypophosphite	5%	70ºF	A				
Sodium Metaphosphate	5%	70ºF	A				
Sodium Metaphosphate	12½%	100ºF	A				
Sodium Nitrate		100ºF	A			B	B
Sodium Nitrite		150ºF				B	B
Sodium Oleate		100ºF	A			B	B
Sodium Permanganate		150ºF				B	B
Sodium Peroxide		100ºF	B			B	B
Sodium Phosphate	50%	70ºF	B			B	B
Sodium Polyacrylate		70ºF	A				
Sodium Propionate	20%	70ºF	A			B	
Sodium Silicate		150ºF	A			B	B
Sodium Sulfate	10%	150ºF	A	A	A	B	B
Sodium Sulfate	25%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	150ºF	A	A	A	B	B
Sodium Sulfate	30%	200ºF	A	A	A	B	B
Sodium Sulfate Nickle Pickling Solution		150ºF				B	B
Sodium Sulfhydrate		100ºF	A				
Sodium Sulfite	10%	150ºF	A	A	A	B	B
Sodium Sulfite	10%	180ºF	A	A	A	B	B
Sodium Sulfite	25%	150ºF	A	A	A	B	B
Sodium Thiocyanate	10%	70ºF	LR				
Sodium Thiocyanate	50%	70ºF	LR				
Sodium Thiosulfate	10%	150ºF	A	A	A	B	B
Sodium Thiosulfate	30%	100ºF	A	A	A	B	B
Sodium Thiosulfate	30%	120ºF	A	A	A	B	B
Sodium ThioSulfate	30%	150ºF	A	A	A	B	B
Sodium Toluene Sulfonate	40%	100ºF	A				
Sodium Xylene Sulfonate		100ºF	NR				
Solo® Laundry detergent	100%	150ºF	B		NR		
Sorbitol	conc.	100ºF	A	A		B	
Soya Oil		180ºF	A			B	B
Soybean Hydrase		70ºF	A	A	A	B	

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Soybean Hydrase		150ºF	A	A	A	B	
Soysauce	100%	150ºF	A		A		
Sparkle	100%	70ºF				A	
Spor-Klenz®	1%					A	B
Spor-Klenz®	100%					A	
Stannic Chloride		100ºF	B			B	B
Stannous Chloride		100ºF				B	B
Starch		150ºF	A	A		B	B
Steam		225ºF	A	A	NR	B	NR
Steam		250ºF	A	A	NR	B	NR
Steam		290ºF	A	A	NR		NR
Stearic Acid	90%	160ºF	A	A		B	B
Stoddard Solvent		150ºF	A	A		B	B
Strawberry Preserves		70ºF	A				
Styrene		70ºF	A				
Styrene Butadiene Latex (pH 7-9)		140ºF	A	A			
Sugar Mixture		70ºF	A			B	B
Sulfamic Acid	20%	70ºF	A			B	B
Sulfamic Acid	50%	70ºF	A			B	B
Sulfur	100%	300ºF	A		B	B	NR
Sulfur Chloride		100ºF					NR
Sulfur Dioxide		150ºF	A			B	LR
Sulfur Trioxide		100ºF					NR
Sulfuric Acid	5%	70ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	100ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	120ºF	LR	LR	LR	B	B
Sulfuric Acid	5%	150ºF	B	LR	B	B	B
Sulfuric Acid	10%	77ºF	B	NR	B	B	
Sulfuric Acid	10%	100ºF	B	NR	B		
Sulfuric Acid	10%	120ºF	B	NR	B	B	B
Sulfuric Acid	10%	150ºF	B	NR	B	B	
Sulfuric Acid	15%	185ºF	B	NR			
Sulfuric Acid	20%	70ºF	B	LR	LR	B	B
Sulfuric Acid	20%	150ºF	B	B	B	B	
Sulfuric Acid	25%	70ºF	B			B	
Sulfuric Acid	25%	100ºF	B	B		B	
Sulfuric Acid	25%	150ºF	B	B		B	
Sulfuric Acid	25%	300ºF	B	B			
Sulfuric Acid	30%	70ºF	B			B	B
Sulfuric Acid	30%	100ºF	B	B	B	B	
Sulfuric Acid	30%	150ºF	NR	NR			

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Sulfuric Acid	50%	70ºF	LR		B	B	B
Sulfuric Acid	50%	150ºF	LR			B	B
Sulfuric Acid	70%	70ºF	A			B	B
Sulfuric Acid	70%	100ºF	A			B	B
Sulfuric Acid	70%	150ºF	B	B		B	B
Sulfuric Acid	75%	70ºF	A				
Sulfuric Acid	75%	100ºF	A			B	B
Sulfuric Acid	75%	150ºF	LR			B	B
Sulfuric Acid	92%	100ºF	A				NR
Sulfuric Acid	96%	100ºF	A				
Sulfuric Acid	98%	70ºF	A	B		B	NR
Sulfuric Acid	98%	120ºF	A				NR
Sulfuric Acid	98%	150ºF	B				NR
Sulfuric Acid	98%	180ºF	NR				NR
Sulfuric Acid	100%	100ºF	LR	NR	NR		NR
Sulfuric Acid	100%	150ºF	LR	NR			NR
Sulfuric Acid/Chromic Acid 6%/5%		100ºF	NR				
Sulfuric Acid/Nitric Acid 64%/0.1%		100ºF	NR				
Sulfurous Acid	15%	200ºF	A				
Sulfurous Acid	100%	100ºF				B	NR
Surfactants		100ºF				B	B
Tall Oil		70ºF	A			B	B
Tall Oil		180ºF	A			B	B
Tallow (crude)		150ºF	A			B	B
Tannic Acid	10%	200ºF	A				
Tannic Acid	100%	100ºF	A			B	B
Tar		150ºF	A			B	B
Tartaric Acid	30%	200ºF	A				
Tartaric Acid	100%	100ºF				B	B
Tetrachloroethane		200ºF	A	A		B	NR
Tetraethylenepentamine		70ºF	A				
Tetrafluoroethylene		150ºF	A		A	B	NR
Tetrahydrofuran		70ºF	A			B	
Tetrahydrofuran		151ºF	A	A		B	
Thioglycolic Acid	97%	70ºF	A	A			
Thioglycolic Acid	97%	150ºF	LR	LR	NR		
Thiols		70ºF	A				
Tide® Laundry detergent	100%	70ºF	A				
Tide® Laundry detergent	100%	150ºF	A		NR		
Tin Immersion Dip		150ºF			NR		B
Tin Tetrachloride	50%	70ºF	A		A	B	NR

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Titanium Dioxide		100ºF	A.				
Titanium Tetrachloride		100ºF	NR	NR			
Toluene	100%	70ºF	A	A	B	B	NR
Toluene	100%	100ºF	A	A	B	B	NR
Toluene	100%	230ºF	A	A	B	B	NR
Toluene Diisocyanate (TDI)		100ºF	A	A			
Toluenesulfonamide/formaldehyde resin	100%	150ºF	A	A	A		
Tomato Paste, no salt (Hunts®)	100%	150ºF			A		
Tomato Puree (Hunts®)	100%	150ºF			A		
Toxaphene	100%	194ºF	A				
Toxaphene	100%	212ºF	A	LR			
Transformer Oil		70ºF	A				
Tributyl Phosphate		70ºF	A				
1,1,1 Trichloroethane		70ºF	A	A			
1,1,1 Trichloroethane		165ºF	A	A	B	B	NR
Trichloroethylene	100%	70ºF	A	A	A	B	NR
Trichloroethylene	100%	150ºF	A	A	A	B	NR
Trichloroethylene	100%	180ºF	A			B	NR
Tricresyl Phosphate	100%	70ºF	A	A	A	B	B
Tricresyl Phosphate	100%	100ºF	A			B	B
Tridecyl Alcohol		70ºF	A			B	B
Triethanolamine		100ºF	A				
Triethanolamine Lauryl Sulfate		100ºF	A	LR			
Triethylbenzene		150ºF	A				
Triethylene Glycol		100ºF	A				
Triethylenetetramine		100ºF	A	A			
Trifluoroacetic Acid (3M)	100%	162ºF	A	A	B	B	NR
Triphenyl Phosphite		100ºF	A	A	A	B	NR
Tripotassium Phosphate		150ºF	A	A	A	B	NR
Trisodium Phosphate	5%	140ºF	A			B	NR
Tung Oil	100%	70ºF	A	A	A	B	B
Turpentine		70ºF	A			B	B
Urea Fromaldehyde resin		100ºF	A			B	B
Urea Liquor		266ºF	A			B	B
Urea Solution	50%	100ºF	A				
Urea-Ammonium Nitrate solution		150ºF	A				
Uric Acid		70ºF	A			B	
V-8 Vegetable Juice		70ºF	A	A			
Vapam		100ºF		A			
Varnish		150ºF	A				
Vegetable Oil		100ºF	A				

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
Blank:Insuffient Data

Heresite Protective Coatings LLC • 822 S. 14th St • Manitowoc, WI 54220
800-558-7747 or 920-684-6646 • sales@heresite.com • www.heresite.com

HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Vesphene (Steris Product)	100%	70ºF				A	
Vesphene (Steris Product)	0.01%	70ºF				A	
Vicks® Cough Syrup		70ºF	A			B	NR
Vinegar (White)		70ºF	A				
Vinyl Acetate (Clear liquid)		150ºF	A			B	B
Vinyl Chloride		70ºF	A			B	B
Vinyl Toluene		100ºF	A		A	B	B
Water, Boiler		212ºF	A				
Water, Boiling Distilled		225ºF	A			B	B
Water, Boiling Distilled		250ºF	A				
Water, Boiling Distilled		290ºF	A	A		B	B
Water, Brackish		150ºF	A	A			
Water, Cation Exchange	pH4	180ºF	A			B	
Water, DI		100ºF	A	A	A	B	B
Water, DI		150ºF	A	A	A	B	B
Water, DI		212ºF	A	A	A	B	NR
Water, Fresh		212ºF	A	A		B	B
Water, Salt	5%	150ºF	A			B	B
Water, Sea		165ºF	A	A		B	B
Water, Sea		212ºF	A	A		B	NR
Water, Tap		100ºF	A	A	A	B	B
Water, Tap		150ºF	A	A	A	B	B
Water, Tap		212ºF	A			B	NR
Wax		200ºF	A				
Whey		70ºF	A				
Whiskey		150ºF	A			B	B
White Liquor		150ºF	NR	NR		B	B
Whizz® Laundry detergent	100%	150ºF	NR	NR	NR		
Wine		100ºF	A			B	B
Wood Rosin	100%	100ºF	A	A	NR	B	B
Wood Rosin		388ºF	A			B	NR
Xylene	100%	150ºF	A	A		B	NR
P-Xylene		150ºF	A	A		B	NR
Yeast		150ºF				B	
Zinc Acetate	10%	100ºF	A			B	B
Zinc Acetate	30%	100ºF	A			B	B
Zinc Calcium Bromide		150ºF	A	A	A	B	B
Zinc Chloride	10%	150ºF	A	A		B	B
Zinc Chloride	40%	70ºF	A			B	B
Zinc Chloride	50%	70ºF	LR	LR		B	B
Zinc Nitrate		100ºF	B	B		B	B

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
Blank:Insuffient Data

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HERESITE PROTECTIVE COATINGS, LLC

Chemical	Conc.	Temp	P-403L High bake phenolic	P-403L/ L-66L High gloss bake phenolic system	EP-6379 Baked epoxy phenolic	P-413 Modified baked phenolic	VR-514 Air dry phenolic
Zinc Plating Solution		150ºF	B	B		B	B
Zinc Sulfate		100ºF	B	B		B	B

A:Resistant B:Resistant Fume C:Secondary Containment LR: Call Heresite, Inc. NR:Not Recommended
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HERESITE PROTECTIVE COATINGS, LLC

SUBMITTAL NOTES

Review Comments & Responses

1. **HVAC: Submittal pages 01 through 21 of 101 –incorrect equipment tag numbers. Previous comment not addressed. Revise to match the contract drawings, MAU-A01, MAU-A02, MAU-A03.**

   Addressed and revised

2. **HVAC: MAU-A01-A03. Weather Rite is not a listed manufacturer in the specification. For review as a substitution, provide all necessary information on construction materials and components to prove compliance with spec section 15500 2.04.A. Cabinet must be insulated. Supply fans must have internal vibration isolators.**

   Weather Rite could not meet spec. Proposing Bessamaire who has verified and supplied the data to meet the spec requirements. See attached documents for construction material, double wall foam panel cabinets, and supply fan spring isolation.

3. **HVAC: MAU-A01 through A03. Confirm the "Weather-Rite Intelligent Control System" included in the submittal is intended for the remote equipment control panels (ECPs) required by the contract drawings. Confirm these are located indoors in the remote ECP and not outdoors.**

   See attached documents for details and components of the ECPs with sequencing included

4. **HVAC: MAU-A01-A03. Previous comment not addressed: Provide unit dimensions including the Thermolec heating section in the unit casing. MAU with separate duct heater is not acceptable. Heating coil CFM must match supply fan CFM, confirm Thermolec selections on page 17 of 101, and include heater selection at 17kW for MAU-A02.**

   See attached document for unit dimensions. The unit drawing reflects the heater section in the unit's insulated cabinet. The proposed manufacturer is INDEECO Model: Electric Duct Heater. This will be integrated into the MAU unit and not installed in external duct.

5. **HVAC: MAU-A01, A02, A03. Supplier to include ambient temperature, coil and filter velocity. Confirm internal static pressure loss includes filter loss at 0.35" w.c., per spec paragraph 2.04.A.7.b. Revise selections accordingly.**

   Confirmed and documented in attached submittal.

6. **HVAC: MAU-A01, A02, A03. Confirm discharge damper is included to match the Contract Drawings. MAUs shown with an inlet damper in the submittal, move to discharge. Contractor to coordinate damper size if damper is provided by others. Contractor to coordinate dimensions of the discharge openings with the roof opening and connected ductwork.**

   Discharge dampers are provided by Air Devices and shown to be installed in the duct work. MAU is designed to interlock with discharge damper per control sequence.

7. **HVAC: MAU-A-03. Supplier to confirm four-way adjustable diffuser at the discharge is provided as an accessory or by others. Confirm diffuser static pressure losses are included as part of MAU total losses as indicated on contract drawing-H-3. If by others, Contractor to submit diffuser information separately.**

   4- Way diffuser is provided by the Air Distribution Rep

8. **HVAC: MAU-A01-A03. Confirm single point power connection and provide the total unit MCA (Minimum Circuit Ampacity). Motor horsepower values are not consistent with those shown on Contract Drawing H-3. Contractor to coordinate power circuit requirements with the electrical contractor.**

9. **HVAC: MAU-A01-A03. Units are roof mounted, and a roof curb is required as an accessory. HVAC equipment curb is required to be 16" height to elevate the air intake above snow depth per spec paragraph 2.04.A.13.a. Curb will need to be provided with a corrosion resistant coating to match the MAU and corrosion resistant anchorage. Confirm.**

    16" standard roof curb will be provided with corrosion resistance coating and corrosion resistant anchorage.

10. **HVAC: MAU-A01 and A02. Provide VFD as indicated in contract drawing H-3. VFD is indicated in the submittal model number description but is required to have a NEMA 8 enclosure. Confirm. If VFD is built-in, confirm corrosion resistance. If a separate VFD is required, Contractor to coordinate wiring and location.**

    Separate VFD is required due to ventilation requirements. The VFD is provided with the equipment. NEMA 8 enclosure will be provided by others in a coordinated location.

11. **HVAC: MAU-A03. Provide VFD for variable air volume as indicated in contract drawing H-3. VFD is indicated in the model number description but must have required turndown shown by airflow CFMs on H-3. Confirm. If VFD is built in, confirm corrosion resistance. If a separate VFD is required, Contractor to coordinate wiring and location.**
    Separate VFD is required due to ventilation requirements. The VFD is provided with equipment. The VFD provided does have required turndown capabilities per CFM values on H-3
12. **Confirm units are provided with a stormproof weather hood with bird screen, sized for 100% outside air, mounted on the unit inlet as required by specification section 15500 paragraph 2.04.A.6.c. Submittal options are not clear, and illustrations show an inlet plenum, not a weather hood for MAU-A01 and A02.**
    Confirmed. Weather hood provided with required bird screen sized for 100% O/A
13. **Coating information for cabinet noted. Control panels, wiring connections and other sensitive electronics located outside are required to have a conformal coating applied for protection from corrosion per the Schedule Note 2 on Contract Drawing H-3. Confirm this is provided and submit information on the coating.**
    Confirmed. Coating will be applied to all required components. Coating information is submitted in this document.
14. **Electrical: Submittal data has not been provided for the remote equipment control panels (ECP). The supplier noted this and indicated they would be supplied if necessary. These submittals must be provided for operational coordination**
    ECP details and submittals are attached in this document.
15. **. Structural: Contractor to provide responses to structural comments on the previous submittal.**

Blygold Warranty Information

Manufacturers and Blygold Licensees Please Take Note!
This registration form must accompany the warranted equipment to its final destination.
The end user or service provider requires this document to validate the warranty.

Blygold America

Blygold® PoluAl Five Year Warranty Package

Blygold Complete Warranty Document - Printable PDF file.

Contents:

1. Registration Form
2. Terms and Conditions
3. Blygold PoluAl Chemical and Other Substances Resistance List

Instructions to End User or Service Provider:

1. Make sure the warranted coil has a legible identification tag.
2. Fill out block one of registration form.
3. Carefully read terms and conditions of warranty.
4. Sign and Date registration form.
5. Return signed registration form certified mail, return receipt requested to the Blygold Licensed applicator shown in block two of the form within fourteen days after unit is installed.
6. Retain a copy of the completed registration form, the terms and conditions and the PoluAl resistance list for you records.
7. If you have any questions or concerns contact the Blygold Licensee shown on the registration form or feel free to contact

BLYGOLD® POLUAL FIVE YEAR WARRANTY

Registration Form

Warranty Registration Form - printable pdf file

1. Installation Site and Equipment information

Site Name	**:**
Address	**:**
City	**:**
State and Zip	**:**
Equipment Manufacturer	**:**
Model Number	**:**
Serial Number	**:**

I have read the warranty terms and conditions provided with this form. I understand that failure to comply with those terms and conditions will result in this warranty being voided.

Name: _____
Signature:_____

Title: _____ Date: _____

2. Blygold Licensee and Applicator information

Blygold Licensee	**:**
Address	**:**
Telephone	**:**
Coil Identification Number	**:**
Application date	**:**
Applied by	**:**

Note

This application form is valid for five years from the date shown above.
This registration form must be returned certified mail return receipt requested, to the Blygold licensee shown above within fourteen days after the unit is installed.

Blygold® is a Registered Trademark of Blygold International BV.

BLYGOLD POLUAL WARRANTY

TERMS AND CONDITIONS

This warranty is valid, pursuant to the following terms and conditions, for a period of no longer than five years from the application date indicated on the registration form. The Warranty will become void if the registration form is not filled out and returned to the Blygold Applicator within fourteen days after the unit is installed. Your exclusive remedy for the breach of this limited warranty is limited, at the applicator's option, to repair of the Coating in the field or to a new Coating application for a replacement coil. This Limited Warranty will NOT cover the cost of (i) a replacement coil; (ii) the labor to remove or replace a coil; (iii) freight of the replacement coil to the job site; and (iv) refrigerant recovery. The applicator shall accept no liability or responsibility for damages should the coils or the Coating be used for an unspecified purpose, misused, tampered with or combined with foreign elements, damaged by mishandling, abuse, improper storage or used in any manner other than originally intended. Without limiting the generality of the foregoing, the following items specifically are not covered by this limited warranty:

1. Damage originating internally, such as from corrosive liquids or gases inside the system;

2. Damage from improper cleaning methods, such as the use of wire brushes, unauthorized chemicals or coil cleaners, or other abrasive actions or products; or

3. Damage from any other intentional or accidental act, or any act of nature, which compromises the integrity of the Coating applied for external corrosion protection.

This Warranty is valid only under and with the following conditions:

1. The coil is constructed of aluminum fins over copper or aluminum tubing. Copper fin coils are not covered under this warranty.
2. The exposure conditions of the coil at no time or duration exceed the limitations expressed in the resistance list.
3. The Blygold warranty registration form has been completed and received by the Blygold licensee.
4. Inspection / maintenance requirements are performed in accordance with Blygold recommendations using approved chemicals and methods, as prescribed below.
5. Notice of any failure of the Blygold PoluAl coating must be presented, in writing, to the Blygold Licensee within seven days after discovery of the failure. Immediately after submitting such notice, free access shall be given to the Blygold Licensee or its appointed representative for the purpose of inspection and/or sampling of fin material and/or air sampling. If written notice is not given within one (1) week, and/or access to examine the coil is denied to the Blygold Licensee or its appointed representative, any claim for breach of this warranty shall be deemed to have been waived, and the Blygold Licensee and/or Blygold America Inc. shall have NO LIABILITY under this warranty.

6. In the event of a coil failure and an ensuing dispute as to the cause of said failure, an electron-microscopic test of a sample of the damaged coil will be employed to resolve said dispute. Blygold America Inc. will appoint an independent laboratory to be used for this test and the results will be binding.
7. Any service performed under this warranty shall not serve to extend the warranty beyond three years from the application date as set forth on the warranty registration form.
8. Coils damaged in transit, after the Blygold coating is initially applied, or during installation must be brought to the immediate attention of the Blygold Licensee. At such time the coating will be repaired at the cost of the customer. Failure to do so will result in the warranty being voided.
9. The warranty shall be voided if the Blygold registration plate or tag has been removed, destroyed or rendered illegible.

THE ABOVE LIMITED WARRANTY TERMS SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, AND ALL SUCH OTHER WARRANTIES ARE EXPRESSLY DISCLAIMED AND DENIED. IN NO EVENT SHALL THE BLYGOLD LICENSEE BE LIABLE TO YOU OR YOUR CUSTOMERS FOR ANY INCIDENTAL SPECIAL OR CONSEQUENTIAL DAMAGES, LOSS OF ANTICIPATED PROFITS OR OTHER ECONOMIC LOSS ARISING FOR ANY REASON WHATSOEVER. THIS WARRANTY SHALL ACCRUE ONLY TO YOUR BENEFIT AND SHALL NOT BE TRANSFERABLE TO ANY OTHER PARTY.

Inspection and Maintenance Requirements

The following inspection and maintenance procedures are required as part of the terms and conditions of the warranty. Any defects, damage or corrosion found during inspections should be immediately reported to the Blygold Licensee identified on the warranty certificate.

1. Immediately after the unit is installed, the coated coil should be inspected for damage incurred in shipping or handling.

2. The coil should be cleaned and inspected periodically to ensure maximum efficiency of the coil and the coating. The frequency requirement of the cleaning process will vary depending on the conditions present at the installation site. At a minimum, Blygold requires in-service coils be cleaned and inspected every three months, commencing immediately after installation. Your Blygold applicator will inform you of the inspection and maintenance frequency of your installation.

3. Using a low-pressure spray device, the coil should be rinsed with clean fresh water, washed with a solution of Blygold Coil Clean or a mild detergent with similar properties (pH factor between 5 and 9) and water and rinsed thoroughly with clean fresh water. Blygold recommends this be done for the life of the unit as it not only will enhance the corrosion resistance capability of the coil but also maintain and improve the operating efficiency of the unit.

4. After each wash, the coil should be inspected for any damage, onset of corrosion or deterioration of the coating.

BLYGOLD POLUAL
CHEMICALS AND OTHER SUBSTANCES
RESISTANCE LIST

Blygold PoluAl's resistance to various chemicals and other substances has been tested under laboratory conditions. The issuance of a warranty to a coil coated with the Blygold PoluAl corrosion protection system will be subject to the exposure conditions simulated in this test. Values are based on average concentrations.

Note!

Resistance is expressed with regard to VAPORS NOT FLUIDS. If units are expected to be exposed to fluids, cleaning agents, chemical fluids or powders, process fluids or others not specified on this resistance list, Blygold America Inc. should be consulted.

		KEY CHART
xx	=	resistant to concentrated vapors, no limitations to exposure
10-100ppm	=	resistant until 10-100 ppm
5-10ppm	=	resistant between 5-10 ppm
-5ppm	=	resistant until 5 ppm
Temperature 68 ° F (20 °C)		
PPM= parts per million		

Inorganic Acids

1.	Arsenious acid solution	XX	14.	Hydrogen sulphide	XX
2.	Arsenic acid solution	XX	15.	Hydrogen sulphide solution	XX
3.	Boric acid	XX	16.	Nitric acid concentrated	5-10ppm
4.	Boric acid solution	XX	17.	Nitric acid solution	XX
5.	Hydrogen carbonate	XX	18.	Nitrous acid	XX
6.	Chromic acid	XX	19.	Nitrous vapours	5-10ppm
7.	Bromic acid	5-10ppm	20.	Sulphuric acid vapours	5-10ppm
8.	Bromic acid solution	XX	21.	Sulphuric acid	XX
9.	Hydrochloric acid	5-10ppm	22.	Phosphoric acid	XX
10.	Hydrochloric	XX	23.	Perchloric acid	5-

	acid solution			concentrated	10ppm
11.	Hydrogen fluoride	XX	24.	Perchloric acid solution	XX
12.	Hydrogen fluoride solution	XX	25.	Selenic acid	XX
13.	Sulphurous acid	XX	26.	Selenous acid solution	XX

Organic Acids

1.	Acetic acid	XX	14.	Oleic acid	XX
2.	Acetic acid glacial	5-10ppm	15.	Oxalic acid	XX
3.	Benzoic acid	XX	16.	Sulphamic acid	XX
4.	Lactic acid	XX	17.	Wine stone acid	XX
5.	Phenols	XX	18.	Barn stone acid	XX
6.	Citric acid	XX	19.	Palmitic acid	XX
7.	Fatty acids	XX	20.	Tannin	XX
8.	Formic acid concentrated	5-10ppm	21.	Phthalic acid	XX
9.	Formic acid solution	XX	22.	Propionic acid concentrated	5-10ppm
10.	Hydrocyanic acid	XX	23.	Propionic acid solution	XX
11.	Malic acid	XX	24.	Salicylic acid	XX
12.	Margaric acid	XX	25.	Stearic acid	XX
13.	Picric acid	XX	26.	Valeric acid	XX

Alkalines

1.	Ammonia (gas)	10-100ppm	6.	Caustic potassium	5-10ppm
2.	Ammonia (Solutions)	10-100ppm	7.	Potassium hydroxyde solution	XX
3.	Ammoniacal solution	XX	8.	Lithium hydroxyde	5-10ppm
4.	Caustic soda	5-10ppm	9.	Calciumhydroxyde	XX
5.	Sodiumhydroxyde solution	XX	10.	Magnesium hydroxyde	XX

Amines

1.	Triethanolamine	XX	10.	Cyclohexylamine solution	XX
2.	Triethanolamine concentrated	XX	11.	Triethylamine	XX
3.	AMP 95 concentrated	XX	12.	Aniline	5-10ppm
4.	AMP 95 solution	XX	13.	Aniline chloride	5-10ppm
5.	Aniline sulphate	XX	14.	Methylamine	XX
6.	Hexamethylenetetraamine	XX	15.	Isoferondiamine	XX
7.	Hexanediamine	5-10ppm	16.	Diphenylmethanediamine	XX

8.	Phenyldiamine	XX	17.	DETHA	XX
9.	Cyclohexylamine concentrated	5-10ppm			

Ethers

1.	Diethylether	5-10ppm	2.	Acetic ether	5-10ppm

Aromatic Hydrocarbons

1.	Xylene	XX	6.	Gumlac	XX
2.	Toluene	XX	7.	Benzene	XX
3.	Asphalt	XX	8.	Solventnaphta	XX
4.	Anthracene	XX	9.	Naphtalene	XX
5.	Benzapherene	XX	10.	Terpenes	XX

Aliphatic Hydrocarbons

1.	White spirit	XX	5.	Paraffine	XX
2.	Shellsol TD	XX	6.	Paraffineoil	XX
3.	Bitumen	XX			
4.	Isopar G	XX			

Alcohols

1.	Methanol	5-10ppm	6.	Benzylalcohol	XX
2.	Ethanol	XX	7.	Diacetonalcohol DAA	XX
3.	Isopropanol	XX	8.	Glycerine	XX
4.	n-Butanol	XX	9.	n-Propanol	XX
5.	Amylalcohol	XX	10.	Pentanol	XX

Softeners

1.	Palatinol C	XX	5.	Desavin	XX
2.	Chloorparaffine 5XX vl.	XX	6.	Disflamol TOF	XX
3.	Dioctylphosphate	XX	7.	Mesamol	XX
4.	Dibutylphosphate	XX	8.	Dinonylphenol	XX

Fuels and Oils

1.	Diesel	XX	9.	Mineral Oils	XX
2.	Fuel oil	XX	10.	Brake Fluid	XX
3.	Gasoline	XX	11.	Skydrol	XX
4.	High Octane Gasoline	XX	12.	Aninal oils	XX
5.	Lubricating Oils	XX	13.	Ethric oils	XX
6.	Kerosene	XX	14.	Vegetable Oils	XX
7.	Sferic Oils	XX	15.	Butagas	XX
8.	LPG	XX	16.	Acetylene	XX

Esters

1.	Ethylacetate	10-100ppm	5.	Butylacetate	XX
2.	Amylacetate	XX	6.	Butylpropionate	XX
3.	Propylacetate	XX	7.	Ethylformiate	XX
4.	Ethyloxalate	XX	8.	Ethylbenzoate	XX

Ketones and Aldehydes

1.	Acetone	10-100ppm	6.	Diisobutylketone	5-10ppm
2.	Aceetaldehyde	5-10ppm	7.	Methylisobutylketone	5-10ppm
3.	Benzaldehyde	10-100ppm	8.	Methylethylketone	5-10ppm
4.	Formaldehyde	5-10ppm	9.	Butanal	5-10ppm
5.	Salicylaldehyde	5-10ppm	10.	Crotonaldehyde	5-10ppm

Halogenated Hydrocarbons

1.	1.1.1.Trichloorethane	5-10ppm	6.	Trichloorethylene	5-10ppm
2.	Methyleenchloride	5-10ppm	7.	Perchloorethylene	5-10ppm
3.	Methylbromide	5-10ppm	8.	Tetraiodicmethane	5-10ppm
4.	Tetrachloormethane	5-10ppm	9.	PCB	5-10ppm
5.	Dichloorethene	5-10ppm			

Salts and Water Solutions

1.	Sodium Salts	XX	14.	Hydroquinone	XX
2.	Potassium Salts	XX	15.	Ironsalts	XX
3.	Calcium Salts	XX	16.	Processwater	XX
4.	Aluminium Salts	XX	17.	Rainwater	XX
5.	Ammonium Salts	XX	18.	Seawater	XX
6.	Barium Salts	XX	19.	Heavywater	XX
7.	Copper Salts	XX	20.	Zincsalts	XX
8.	Lead Salts	XX	21.	Tinsalts	XX
9.	Lithium Salts	XX	22.	Siliconsalts	XX
10.	Magnesium Salts	XX	23.	Cement	XX
11.	Mercury Salts	XX	24.	Quartz	XX
12.	Lithopone	XX	25.	Dolomite	XX
13.	Arsenious Compounds	XX			

Others

1.	Carbondisulphide	10-100ppm	41.	Camphor	XX
2.	Carbonmonoxyde	XX	42.	Carbon	XX
3.	Carbondioxyde	XX	43.	Cellulose	XX
4.	Nitrogen	XX	44.	Celluloseacetate	XX
5.	Hydrogenperoxyde	10-100ppm	45.	Nitrocellulose	XX
6.	Chlorine	5-10ppm	46.	Methylcellulose	XX

7.	Chlorine water	5-10ppm	47.	Cocos	XX
8.	Iodine	5-10ppm	48.	Silicium	XX
9.	Iodinetinctuur	10-100ppm	49.	Siliciumcarbide	XX
10.	Bromic	5-10ppm	50.	Cork	XX
11.	East-Indian ink	XX	51.	Woodfibre	XX
12.	Phosphor	XX	52.	Photo-Development Bath	XX
13.	Diphosphorpentoxyde	5-10ppm	53.	Viscose	XX
14.	Zinc	XX	54.	Rescosinol	XX
15.	Aluminium	XX	55.	Resins	XX
16.	Glucose (syrup)	XX	56.	Tobacco	XX
17.	Fructose	XX	57.	Nicotine	XX
18.	Mercury	XX	58.	Trinitrobenzene	XX
19.	Sulpher	XX	59.	Gelatine	XX
20.	Antimony	XX	60.	Printer's ink	XX
21.	Indole	XX	61.	Milk	XX
22.	Latices	XX	62.	Potato Flour	XX
23.	Nitroglycerine	XX	63.	Vegetables	XX
24.	Hydrogen	XX	64.	Fruit	XX
25.	Epoxyresins	XX	65.	Spices	XX
26.	Isocyanate XX	XX	66.	Honey	XX
27.	Rubber	XX	67.	Eggs	XX
28.	Schellac	XX	68.	Cheese	XX
29.	Soaps	XX	69.	Mustard	XX
30.	Urea	XX	70.	Mayonnaise	XX
31.	Thioureum	XX	71.	Tomato Catsup	XX
32.	Fruit Essences	XX	72.	Curry	XX
33.	Beer	XX	73.	Cacao	XX
34.	Flour Products	XX	74.	Lemonade	XX
35.	Corn	XX	75.	Coca Cola	XX
36.	Liqueurs	XX	76.	Pepsi Cola	XX
37.	Coffee	XX	77.	Sauerkraut	XX
38.	Tea	XX	78.	Blood	XX
39.	Liquor	XX	79.	Ketjap	XX
40.	Menthol	XX	80.	Sambal	XX

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3005 Ranchview Ln N
Plymouth, MN 55447
cdicurbs.com 888-234-7001

Manufacturer's Certification of Compliance

To Whom It May Concern,

I, Joe Long, Crystal Distribution Inc. Supply Chain Manager, certify that the products listed below comply with the domestic content requirements of the Build America, Buy America Act (BABA) and related federal regulations.

Product(s) or Material(s):

- Curbs
- Curb Adapters

Certification Statement:

For manufactured goods and construction materials, I certify that all manufacturing processes occurred in the U.S. at one of our five (5) manufacturing facilities, the cost of U.S.-sourced components is more than 55% of the total component cost, and final manufacturing or assembly was in the U.S.. For iron and steel products, all manufacturing, from melting through coating, took place in the U.S. based upon certifications provided to us by our galvanized sheet metal and micromat insulation suppliers.

This certification confirms compliance with all applicable BABA requirements.

Notification of Changes:

I agree to inform you immediately if compliance changes during this project.

Declaration:

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Joe Long
Supply Chain Manager
jlong@cdicurbs.com
763-639-7487

Line	Quantity	CDI Part #	Tag
F	1	CM1 2-0026-9216	PHP-M01

Description

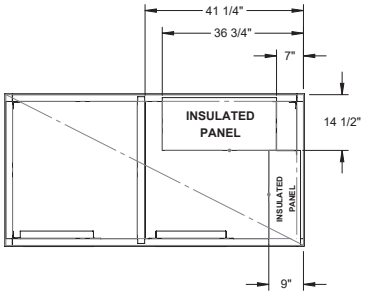
Straight Curb
Straight, No Pitch, 26 in-Custom
New Model: RN007 (PLENUM)
1" Duct Insulation (R Value 3.85); Insulated Floor; 18 Gauge Solid Floor (Vulkem bottom seams); Divider Wall; Horizontal Supply; Horizontal Return; Top Brace; Slab Mounted w/Vulkem Bottom Seams; R&S: 18"sq, 6" from bottom of the curb to duct opening to make and seal connections

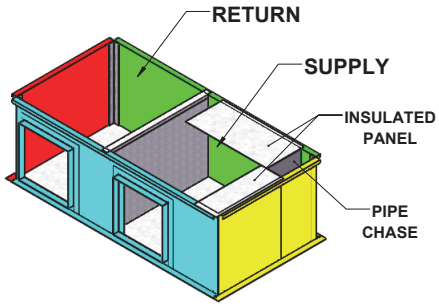
Curb to be coated with heresite p-413 by Blygold

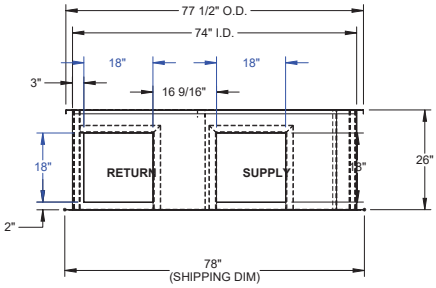
OPTIONS:
MATERIAL: 18 ga. GAL STEEL
INSULATED PANELS (WHERE REQUIRED)
1X4 WOOD NAILER (UNDER TOP FLANGE)
1" 1-1/2LB DUCT INSULATION (R VALUE 3.85)
INSULATED FLOOR W/18 GA SOLID BOTTOM
DIVIDER WALL(S)
HORIZONTAL SUPPLY & RETURN
VULKEM BOTTOM SEAMS

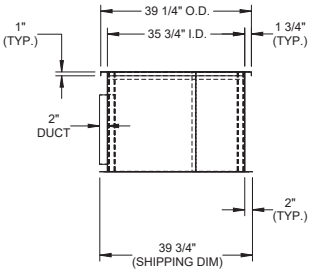
Attn:_____
Tag:_____
Approval:_____

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	INITIAL DRAWING	11/21/2025	GG









CURB SHOWN IS CDI STANDARD CONFIGURATION CDI RESERVES THE RIGHT TO CHANGE LAYOUT WITHOUT NOTIFICATION. IF CURB IS NEEDED IN A DIFFERENT CONFIGURATION CDI MUST BE NOTIFIED PRIOR TO PLACING AN ORDER.

DIMENSIONED AND TOLERENCED PER ANSI Y14.5M-1982

*VERIFY EXISTING CURB OD
*VERIFY SUPPLY AND RETURN OPENINGS
*NOTE ANY CHANGES
*CALL WITH ANY QUESTIONS
*FAX BACK IF DRAWING IS OK AS IS

CURB WEIGHT (LBS.): 203.17

UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE: X ± 0.06, XX ±0.03, XXX ±0.01, ∠ ±2°, .XX=±.007, .=5 ±12°

DIMENSIONS ARE AS FOLLOWS: INCH [MM]

3RD ANGLE PROJECTION

APPROVALS	DATE
DRAWN: gguerin	
CHECKED:	
Friday, November 21, 2025 2:43:09 PM	

CDI
17560 TYLER ST NW
ELK RIVER, MN 55330
(763)391-7790
(763)391-7851

TITLE: 3006868-CM1-2-0026-9216

FILE NAME: 3006868-CM1-2-0026-9216

DRAWING NO.:

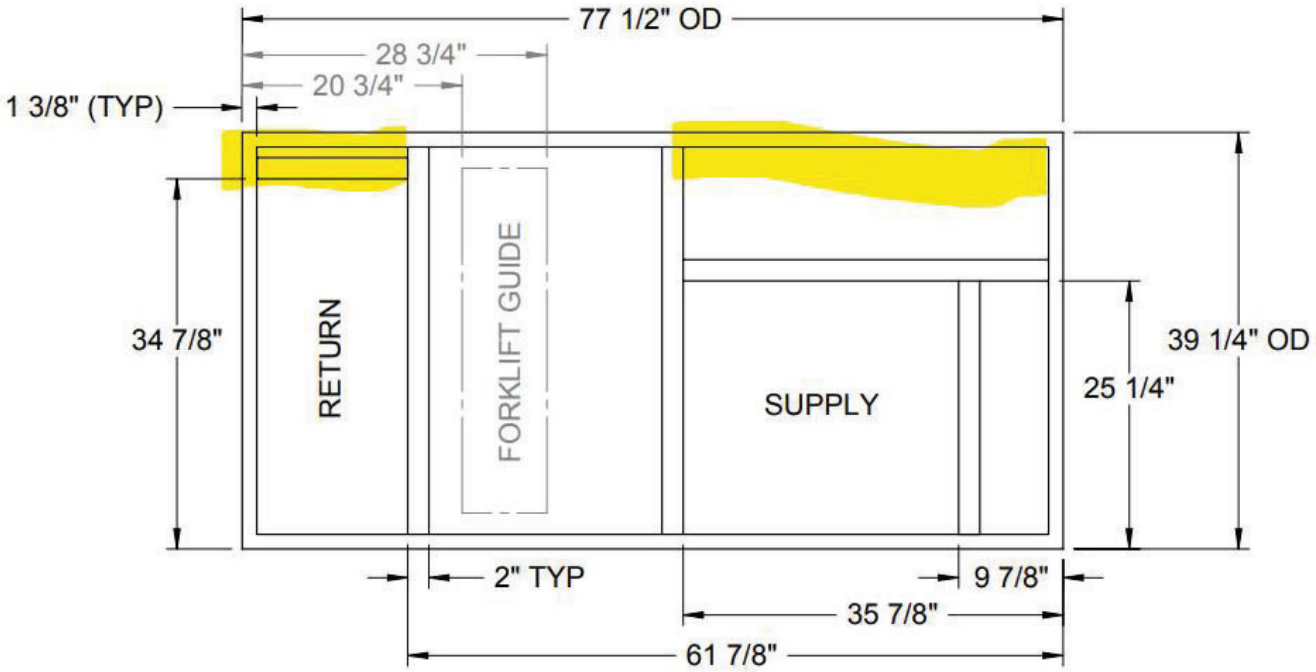
REV: 01

ECO #:

SCALE: 1:25 SHEET: 1 OF 3

S:\CURBS_CURB_ADAPTERS\2-XXXX-XXXX_PITCHED_STRAIGHT_KD\2-9999-2025\3006868-CM1-2-0026-9216\

RN - A CABINET 6-10 TON
STANDARD



* Verify existing curb OD
* Verify supply and return openings
* Note any changes
* Call with any questions
* Fax back if drawing is OK as is

DIMENSIONS ARE AS FOLLOWS: 1.000 in [25.40 mm]

3RD ANGLE PROJECTION