



City of Bentonville, Arkansas
Bentonville WRRF Improvements

B&V Project 422094/417296
B&V File 80.0930.01
March 19, 2026

Crossland Heavy Contractors
Attention: Mr. Matt Hardin

Reference is made to your Submittal 15500-10B Electric Duct Heaters dated March 6, 2026
The following data pertains to Section(s) 15500 of the Specifications.

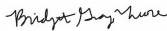
			Review Status					
Identification	Manufacturer	Description	CODE 1 - NO EXCEPTIONS NOTED	CODE 2 - COMMENTS NOTED	CODE 3 - COMMENTS NOTED /CONFIRM	CODE 4 - COMMENTS NOTED /RESUBMIT	CODE 5 - REJECTED /RESUBMIT	CODE 6 - RECEIPT ACKNOWLEDGED
Data	Indeeco	Electric Duct Heaters - REVB	X					

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. None

BLACK & VEATCH CORPORATION


Bridget Moore
Engineering Manager

By: Michele Roth



SUBMITTAL

JOB NAME	Bentonville Wastewater Resource Recovery Facility
PRODUCT	Electric Duct Heater
MANUFACTURER	INDEECO
SPECIFICATION	15500-10
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 2, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

SUBMITTAL NOTES

Review Comments

- 4. On the electric duct heater submittal pages, include the tag numbers from the Contract Drawings, EDH-A01 and EDHA02, to confirm the intended use in the work. Both duct heaters should be suitable for 480v/3ph power supply, confirm and update submittal page 18 of 48. Confirm the control voltage has been coordinated with the duct thermostat and power transformer provided.**
- 5. Confirm the duct thermostat provided for the electric duct heaters is NEMA 4X and include product information.**
- 6. Contractor and supplier to note that the duct dimensions shown on Contract Drawing HA4, and reflected in the submittal, are sheet metal dimensions and there is 2” thick insulation wrap with jacketing required on the outdoor ductwork and heater housing as indicated by the (W2) callout. Control cabinet mounting must include accommodation for the insulation. Duct heaters are required to be provided with 2” wide flanges for fastening to the ductwork per Spec Section 15500 paragraph 2.04.1.c. Confirm.**

Review Response

- 4. The intended use of this item is an outdoor induct heater. Both are suitable for 480/3/60. Confirm that control voltage has been coordinated for the transformer and thermostat.**
- 5. Confirmed**
- 6. Confirmed.**



ELECTRIC DUCT HEATERS
CERTIFIED PRINTS

CUSTOMER
Powers of Arkansas
PO BOX 8112
Little Rock, AR 72203

INDEECO Sales Representative:
Jordan Marlar Hale
P. O. BOX 11688
Memphis, TN 38112

PHONE NO :
ATTENTION:
JOB NAME :
CUSTOMER P.O. NUMBER:

FAX NO:

PHONE NO : (901) 452-7441
ATTENTION: Cromer, Patrick
FILE: COM0033961 Correct Account Rev 1.pch
REP. P.O. NUMBER:

ITEM NO	TAG NO	QTY	HEATER TYPE	KW	INSIDE DUCT DIMENSIONS IN INCHES		SUPPLY LINE VOLTS/ PHASE	STGS	CTRL VOLTS	REFER TO ATTACHED SHEET FOR EXPLANATION				
					WIDTH	HEIGHT				CTRL OPTION	SPECIAL FEATURE CODE	AIR FLOW	OVER HANG	FIG NO
1	EDH-A01	1	TFX	19.00	18.00	16.00	480/3	1	24	K	B2,B9,C4,C8,E30,E22,G2,H2,H3,L4,M3,Q,Q3,T2,U6,Z,Z2	U6	L4	1
2	EDH-A02	1	TFX	6.00	12.00	10.00	480/3	1	24	K	B2,B9,C4,C8,E30,E22,G2,H2,H3,L6,M3,Q,Q3,T2,U6,Z,Z2	U6	L6	1

TOTAL 2



ELECTRIC DUCT HEATERS
CERTIFIED PRINTS

CUSTOMER P.O. NUMBER:

APPROVALS - Any heater which contains a "U" in the "HEATER TYPE" column, is listed by Underwriters Laboratories (UL). Any heater which contains a "C" in this column, is listed by Canadian Standards Association (CSA). All Duct Heaters are rated to 5kA SCCR, unless otherwise noted."

MINIMUM AIR VELOCITY - This is the minimum uniform face air velocity (in feet per minute or meters per minute) - required for proper operation of the heater at inlet temperatures up to and including 80 °F (27 ° C) if Application air velocities are less, contact your factory representative."

WIRING DIAGRAM - Wiring diagrams are typical and use numbered check blocks to fully detail the specific built-in controls for each heater."

MINIMUM INCOMING WIRE GAUGE AND QUANTITY - Wire gauge (GA) is based upon the ampacities for 75 °C rated wire (90 °C for CSA listed heaters) in Table 310.15(B)(16) of the NEC (Table 2 of CEC for CSA listed heaters.) Maximum wire ampacities are derated per NEC 424.22 and Table 310.15(B)(3)(a) (Table 5C and 62-114(7) of the CEC for CSA listed heaters). When the load exceeds the capacity of 500 MCM wire, terminal blocks are furnished for two or more parallel conductors per phase. The number of such conductors is indicated under (QTY/PH) below. Aluminum conductors are not recommended and terminal blocks are not sized for aluminum wire. For heater/panel combination, the wire gauge shown on the heater line is for the heater to panel interconnecting wire. The wire gauge shown on the panel line is for the incoming power wiring."

ITEM NO	DIMENSIONS IN INCHES REFER TO INDICATED FIG. ON ATTACHED DRAWING														MIN VEL AIR FPM	WIRING DIAGRAM		MINIMUM INCOMING WIRE		AMPS
	W	H	C	M	OL	OR	P	D	E	F	G	N	FIG NO	NUMBER		CHECK BLOCKS	GA	QTY		
1	18.00	16.00	13.00	30.00	0.75	16.25	18.00		6.00			3.00	1	500	931-4-1122-209	21, 83		10	1	22.85
2	12.00	10.00	15.00	30.00	11.50	3.50	14.00		6.00			3.00	1	426	931-4-1122-209	21, 83		14	1	7.22

INDEECO®

ELECTRIC FINNED TUBULAR
DUCT HEATERS

HEATER TYPE

This print covers the following heater types:

TFXU/TFXC Finned Tubular, Custom Slip-In

TFZU/TFZC Finned Tubular, Custom, Flanged

831U/831C Remote Panel

Duct heaters utilize the finest construction principles and techniques. A coil of 80% nickel, 20% chromium resistance wire is precisely centered in a .475" diameter stainless steel sheath. Magnesium oxide powder, compacted to rock-like density, insulates the coil electrically from the sheath. A 1-1/4" O.D. spiral wound stainless steel fin makes a minimum of five passes per linear around the outside of the tubular element. The elements are furnished with mounting flanges, making them individually removable from the terminal box. The heater frame is constructed of heavy gauge corrosion resistant steel and is provided with generous flanges for structural rigidity. All heaters are suitable for installation in ducts with up to one inch of interior lining.

All heaters include thermal cutouts (not heat limiters or fusible links) in accordance with requirements of UL and CSA. All controls are factory-wired to clearly marked terminal blocks for field connections. Properly sized knockouts are provided. All heaters are supplied complete with wiring diagrams and installation instructions, and all are given a dielectric test at a minimum of 1200 volts before shipment.

AGENCY APPROVALS AND NATIONAL ELECTRICAL CODE

Duct heaters and panels with a "U" in the type designation are Listed by UL under Files E23192 and E53412 and those with a "C" are Certified under CSA master contract 151727. As such, they are suitable for installation with zero clearance to combustible surfaces and for use with heat pumps and central air conditioners. They are also supplied with all necessary provisions for installation in full accordance with the National Electric Code (NEC) and Canadian Electrical Code (CEC).

INSTALLATION

Slip-in duct heaters are installed by inserting through a rectangular opening cut in the side of the ductwork and are secured to the duct with sheet metal screws. To install flanged duct heaters, flanges must be provided on the duct to match the heater flanges, both on the entering and leaving air sides. The heater is secured to the ductwork by sheet metal screws or bolts through the mating flanges.

When the duct heater is being used in conjunction with an air conditioning or heat pump unit, it must be installed at least 48" from the unit. Sufficient working clearances must be provided on the terminal box side of the heater as detailed in the NEC and/or CEC. Care should be taken to follow all instructions found in the Installation, Operating and Maintenance Instructions sheet supplied with each heater.

CONTROL OPTIONS

G = Basic

J = Pneumatic

K = Proportional

SPECIAL FEATURES

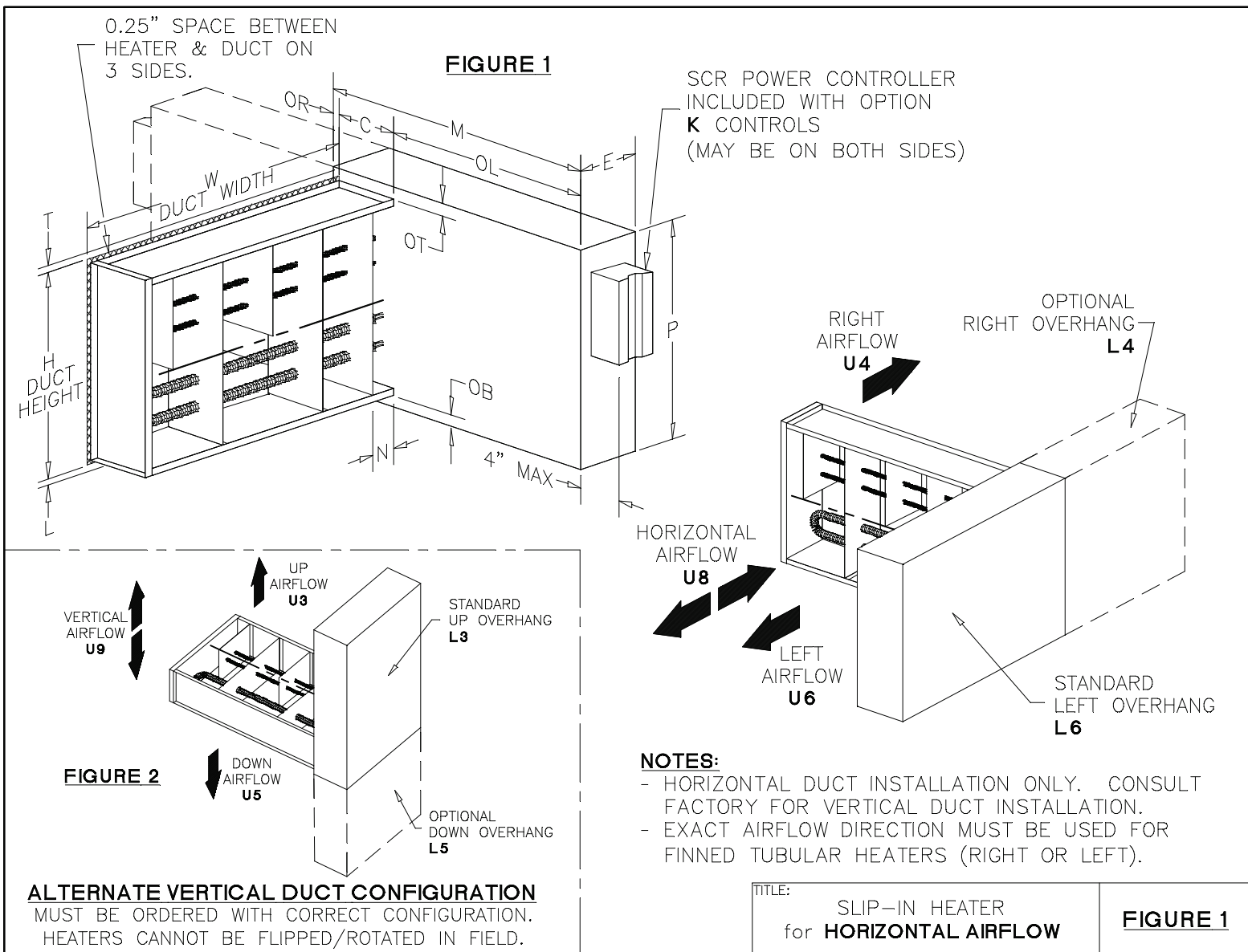
Heaters are available with a wide variety of special features and constructions. Your quotation or certified print includes a column for special feature codes. The codes in this column, as defined by the table below, describes details of both the standard control options, as well as any special features on the heater in question.;

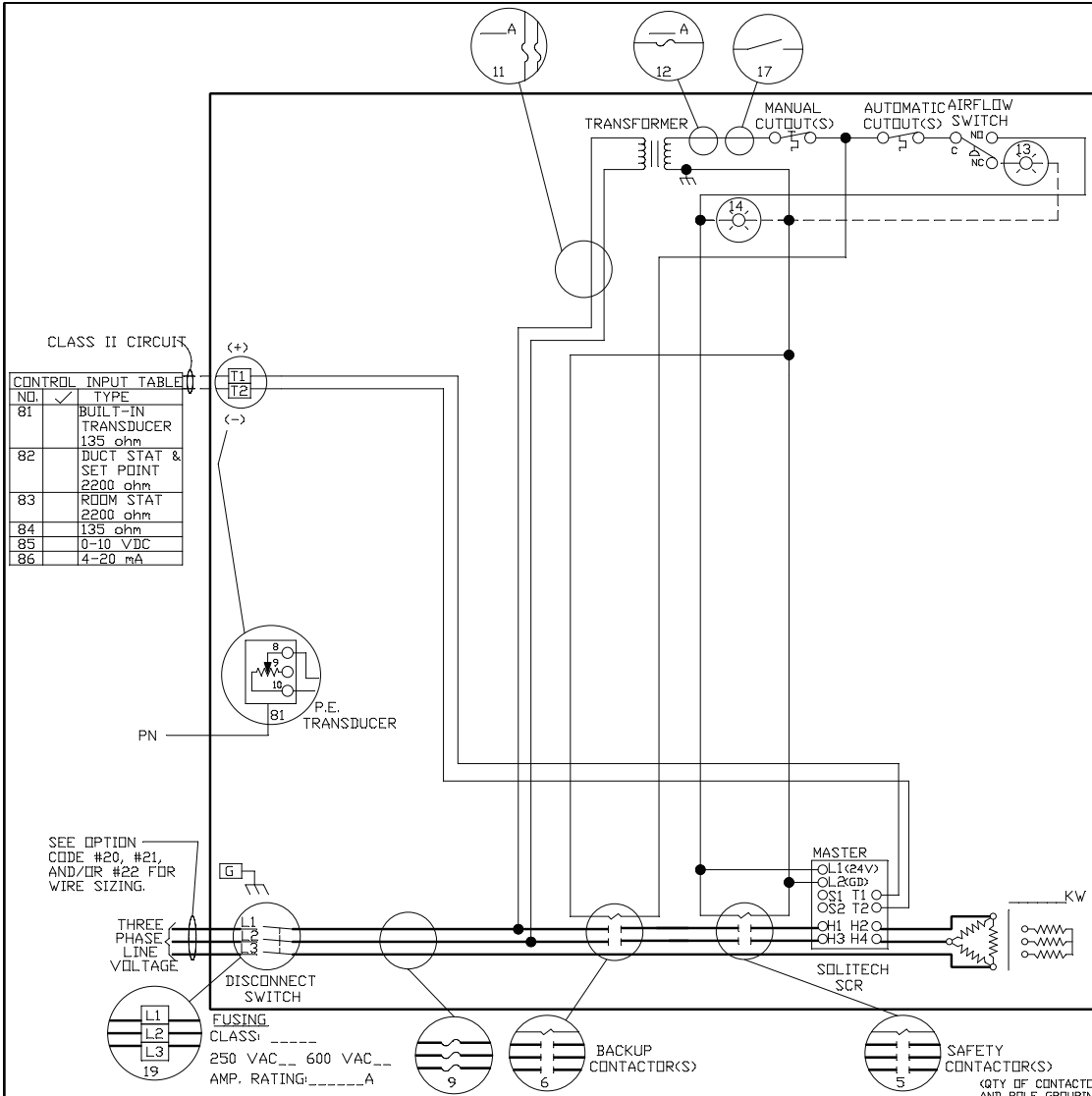
SPECIAL FEATURE CODE DEFINITIONS

A60, A62	PE Switch-Close on Rise	H1	Aluminized Steel Frame & Terminal Box
		H2	Stainless Steel Frame & Terminal Box
B	Terminal Box-Bottom	H3	Stainless Steel Elements (304 Series)
B1	Terminal Box-Side Cover	H6	Stainless Steel Elements (316 Series)
B2	Terminal Box-Insulated		
B3	Enclosure-Weatherproof NEMA 4 Type	L3 to L6	Terminal Box Overhang (See Figs. 10 & 11)
B4	Enclosure-Dust-Tight-NEMA 12 Type	L7	No Overhang, C=M (See Fig. 7)
B5	Panelboard-Required for Heater Control		
B7	Enclosure-Dustproof	M to M7	Manual Thermal Cutout
B8	Enclosure-Outdoor-3R Type	M8	Remote Manual Reset Rod
B9	Enclosure-Stainless Steel Weatherproof Nema 4X Type	N(000)	Fan Relay (000 is control voltage)
C, C4, C8	Contactor-Magnetic De-energizing	P1	Pilot Light Each Stage On
C1, C5, C9	Contactor-Magnetic Disconnecting	P2	Pilot Light Insufficient Air
C2, C6, C10	Contactor-Mercury De-energizing	P3	Pilot Light Heater On
C3, C7, C11	Contactor-Mercury Disconnecting	P4	Pilot Light-Overtemperature
D3	Derated Coils-25 Watts per Square Inch	Q, Q1	Disconnect Switch-Power
D4	Derated Coils-35 Watts per Square Inch	Q2	Pilot Switch-Control Circuit
		Q3, Q4	Airflow Switch Positive
E20 to E23	SCR Controller	Q5, Q6	Airflow Switch Negative
E30	SCR input-2200 Ohms	Q8	Disconnect Switch-Control Circuit
E31	SCR input-135 Ohms	Q10	Disc. Switch-Control Circuit Fan Relay
E32	SCR input-with transducer		
E33	SCR input-slave for vernier	R1	Dry Contact for Remote Heater Enable
E34	SCR input-4-20mA		
E35	SCR input-0-10VDC	S5	2200 Ohm input-Deadband
E36	SCR input-0-10VDC Thermostat Controlling Master SCR	S16	135 Ohm input-Proportional
		S18	4-20mA input-Proportional
E37	SCR input-Pulse Thermostat Controlling Slave SCR	S19	with Transducer-Proportional
		S20	0-10VDC input-Proportional
		S21	Step Controller-0-10VDC Thermostat
F	Fuses-Minimum NEC		
F1	Fuses-Per Circuit	T1, T5	Control Circuit Transformer, Fused Primary
F3	Circuit Breaker-Minimum NEC		
F5	Circuit Breaker-Per Circuit	T2 to T4	Control Circuit Transformer
F6	Time Delay Fusing		
		U3 to U9	Airflow Direction (See Figs. 10 & 11)
G1	Slip-and-Drive Connection	V	Protective Screens-Both Sides
G2	Extended Cold Section	V1	Pressure Plate-Inlet Side
G3	Recessed Terminal Box	V2	Protective Screens-One Side
GG2	Insulated Duct Construction (extended cold section)		
GG3	Insulated Duct Construction (recessed terminal box)	Z to Z5	Automatic Thermal Cutout

INDEECO,425 Hanley Industrial Court, St. Louis, MO, 63144

Phone (314) 644-4300, Fax (314) 644-5332,INDEECO.com, email ESales@indeeco.com





ITEMS WITHIN A CIRCLE MAY VARY OR MAY NOT BE SUPPLIED. SEE THE OPTION KEY BELOW WHICH INDICATES BY CHECK MARKS WHICH NUMBERED CIRCLES APPLY.

OPTION KEY - CHECK MARKS INDICATE WHICH CIRCLES APPLY

01	CONTROLLING CONTACTOR(S) - 2 POLE
02	SAFETY CONTACTOR(S) - 2 POLE
03	BACK-UP CONTACTOR(S) - 2 POLE
04	CONTROLLING CONTACTOR(S) - 3 POLE
05	SAFETY CONTACTOR(S) - 3 POLE
06	BACK-UP CONTACTOR(S) - 3 POLE
07	SINGLE PHASE LINE FUSING (L1 ONLY)
08	SINGLE PHASE LINE FUSING (L1 & L2)
09	THREE PHASE LINE FUSING
10	PRIMARY TRANSFORMER FUSING - 1 LINE
11	PRIMARY TRANSFORMER FUSING - 2 LINE
12	SECONDARY TRANSFORMER FUSING
13	PILOT LIGHT - LOW AIRFLOW
14	PILOT LIGHT - HEATER ON
15	PILOT LIGHT - STAGE(S) ON
16	PILOT LIGHT - FAN ON
17	PILOT SWITCH
18	CONTROL CIRCUIT DISCONNECT SWITCH
19	NO DISCONNECT SWITCH

20 IF CHECKED, HEATER MAY BE WIRED WITH _____ AWG MIN. SUPPLY WIRE PER 424.22(d) NEC. IF THE HEATER IS CONTROLLED IN ONE OF THE FOLLOWING 3 WAYS (1) TWO OR MORE THERMOSTAT(S) (2) THERMOSTAT WITH 2 OR MORE STAGES (3) PROPORTIONING TYPE THERMOSTAT(S)

21 USE _____ AWG MIN. SUPPLY WIRE. _____ WIRE(S) PER PHASE.

22 UTILISER UN CABLE D'ALIMENTATION D'AU MOINS _____ AWG. _____ CONDUCTEUR(S) PAR PHASE.

23	CLASS 1 CIRCUIT
24	CLASS 2 CIRCUIT
25	NO MANUALLY RESETTABLE LIMIT CONTROL(S)
26	INCOMING WIRE TO BE RATED 90 DEG. C. MIN.

LEGEND

—— POWER WIRING

—— CONTROL WIRING

----- WIRING SUPPLIED ONLY WHEN ASSOCIATED OPTION IS SUPPLIED

REV	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DWG NO. 931-4-1122-209-A-0

USE COPPER SUPPLY WIRE SUITABLE FOR 75°C. (90°C IN CANADA OR OPTION CODE 26 IS SELECTED). WIRE EXTERNAL CONTROL CIRCUIT PER CLASS 2. ARTICLE 725 OF NEC, AND/OR CLASS 1, SECTION 16 OF CEC, EXCEPT THE CLASS 2 CIRCUIT(S) SHOWN ABOVE. UTILISEZ DU CONDUIT CAPABLE DE SUPPORTER 75°C. (90°C AU CANADA OU LE CODE D'OPTION 26 EST SELECTIONNE). CONNECTEZ LE CIRCUIT DE CONTROL EXTERNE EN SUIVANT CLASSE 1, ARTICLE 725 DE LA NEC, OU/ET CLASSE 1, SECTION 16 DE LA CEC SAUF LE(S) CIRCUIT(S) DE CLASSE 2 DEJA MENTIONNE(S) AU DESSUS.

Standard Thermostats

The following thermostats are offered for use with Duct Heaters. Other thermostats are available, contact the factory for a complete list of optional thermostats.

Wall Mounted Room Thermostats

Single Stage: Catalog No. 1006998:

- Non-digital, non-programmable, snap-acting bimetal, mercury free, SPST, with positive off single stage
- Range: **50° to 90°F** (7° to 32°C)
- Accuracy: $\pm 3^\circ\text{F}$ ($\pm 1.5^\circ\text{C}$)
- Color: White
- Inductive Rating: 1.2 amp at 30 volts max
- Offered with duct heater selection



Two or Three Stage: Catalog No. 1023723:

- Digital, with programmable 5-1-1 day program or 5-2 day program, mercury free
- HEAT-OFF-COOL-AUTO EMERGENCY HEAT and fan AUTO-ON - CIRC- follow schedule selections
- Easy to read backlit display
- Range: **40° to 90°F** (4.5° to 32°C)
- Accuracy: $\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)
- Color: White
- Inductive Rating: Hardwire, three or four wire heat only Class II circuit, 1.0 amp at 30 volts max



Duct Mounted Thermostats

Single Stage Heavy Duty: Catalog No. 1023953:

- Liquid filled sensing element with snap-acting contacts
- Range: **-30° to 100°F**
- Differential: 3 to 12°F between stages
- Bulb Dimensions: $\frac{1}{8}'' \times 4''$
- Capillary Length: 8'
- Resistive Rating: 22 amps, 120 to 277 volts



Single Stage: Catalog No. 1023721:

- Digital, with programmable 5-1-1 day program or 5-2 day program, mercury free
- HEAT-OFF-COOL-AUTO-EM and fan AUTO-ON selections - CIRC- follow schedule
- Easy to read backlit display
- Range: **40° to 90°F** (4.5° to 32°C)
- Accuracy: $\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)
- Color: White
- Inductive Rating: Hardwire, two wire heat only Class II circuit, 1.0 amp at 30 volts max



Electronic Thermostat: Catalog No. 1031404:

- TA167 Thermostat is proportional 1-10 VDC
- Range: **50° to 90°F**
- For use with factory supplied SCR's and step controllers



Two Stage: ✓ Catalog No. 1007044:

- Two single-pole, double throw switches
- Adjustable by knob
- Range: 0° – 100° F
- Differential: Adjustable 3°F to 10°F between stages
- Bulb Dimensions: $\frac{1}{2}'' \times 4 \frac{3}{16}''$
- Capillary Length: 5'
- Resistive Rating per Heater Stage:
 - » 8.0 amps at 120 volts
 - » 5.1 amps at 240 volts
 - » 4.2 amps at 277 volts



Two Stage: Catalog No. 1007030:

- Digital, non-programmable, mercury free
- COOL-HEAT-OFF EMERGENCY HEAT and fan AUTO-ON selections
- Easy to read backlit display
- Range: **40° to 90°F** (4.5° to 32°C)
- Accuracy: $\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)
- Color: White
- Inductive Rating: Hardwire, three wire heat only Class II circuit, 1.0 amp at 30 volts max



PE Transducer: Catalog No. 1020887:

- Built into heater terminal box
- PSIG range: 0 to 15
- Throttling range: 1 – 12 psi
- Maximum pressure: 25 psi
- Type: Ohmic – 135 ohms
- For use with factory supplied SCR's and step controllers



Electronic Thermostat: Catalog No. Sensor: 1031407 Adjuster: 1031404

- Range: **50° to 90°F**
- Type: Proportional 0-10 VDC
- For use with factory supplied SCR's and step controllers





LIMITED WARRANTY

Indeeco new products are warranted against defects in workmanship, material, design, labeling and packaging. No other warranty, expressed or implied, written or oral, applies. No person other than an officer or the general manager of Indeeco is authorized to give any other warranty or assume any liability.

Warranty Period

Unless specified in the table below, the product warranty period is 18 months from the date of shipment from Indeeco’s factory, or 12 months from the date the product is first placed into service, whichever period lapses first.

Conditions of Warranty

Indeeco products must be installed, operated, and maintained in accordance with Indeeco’s instructions. Indeeco is not liable for damage or unsatisfactory performance of the product resulting from accident, negligence, alteration, unauthorized repair, improper application or installation of the product, improper specifications, or corrosion. Indeeco IS NOT LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Claims against carriers for damage in transit must be filed by the purchaser with the carrier.

Remedy

Contact Indeeco sales department at (314) 644-4300 or sales@Indeeco.com, for a Return Material Authorization Number (RMA#) and return instructions.

If after receipt of the product and the claim, Indeeco finds to its reasonable satisfaction that the product is defective in workmanship, material, design, labeling or packaging, the product will be repaired or replaced, or the purchase price refunded at Indeeco’s option. There will be no charge to the purchaser for parts or labor. Removal and reinstallation of the product, and shipment of the product to Indeeco for repair or inspection, shall be at the purchaser’s risk and expense.

THE REPAIR, REPLACEMENT, OR REFUND PROVIDED FOR IN THIS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE TERMS OF THIS LIMITED WARRANTY.

Indeeco Product Line	Warranty Period	Indeeco Product Line	Warranty Period
BBI (903)	1 year* and 10 years on heating element	WRI (930)	1 year* and 5 years on heating element
BISI/BII (905/907)	1 year* and 5 years on heating element	CCI (931)	1 year* and 5 years on heating element
BCI (906)	1 year* and 5 years on heating element	WCI (932)	1 year* and 5 years on heating element
BASI (908)	1 year* and 5 years on heating element	WAI (933)	1 year* and 5 years on heating element
BAI/BAPI (909/911)	1 year* and 5 years on heating element	WLI (934)	1 year* and 1 year on heating element
LBAI/LBAPI (912/913)	1 year* and 5 years on heating element	CDI (937)	1 year* and 5 years on heating element
BMI (914)	1 year* and 5 years on heating element	TSI (938)	1 year* and 5 years on heating element
BHI (916)	1 year* and 5 years on heating element	FFI (939)	1 year* and 5 years on heating element
RCI (918)	1 year* and 5 years on heating element	CLI (941)	1 year* and 5 years on heating element
CUI (922)	1 year* and 5 years on heating element	950	1 year* and 1 year on heating element
925	1 year* and 5 years on heating element		
All Other Product Lines	18 months from the date of shipment from Indeeco’s factory, or 12 months from the date the product is first placed into service, whichever period lapses first.		

*From date of shipment from Indeeco’s factory.

Convectector-Explosion-Proof-Electric-Unit-Heater



SUBMITTAL

JOB NAME	Bentonville Wastewater Resource Recovery Facility
PRODUCT	Convactor Explosion Proof Electric Unit Heater
MANUFACTURER	INDEECO
SPECIFICATION	15500-11
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 2, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

SUBMITTAL NOTES

Review Comments

- 1. For all electric unit heaters, a pilot light visible on the heater exterior to indicate heater operation is required per Specification Section 15500 paragraph 2.04.B.4.c. Confirm this option is provided and mark on submittal pages 9, 11,29 of 48.**
- 2. Confirm corrosion resistant wall mounting brackets are included for electric unit heaters as required by Schedule Note 2 on Contract Drawing H-4.**
- 3. Confirm the NEMA 4X thermostats submitted for the electric unit heaters meet the requirement in Specification Section 15500 paragraph 2.04.M.6.b. for a non-adjustable differential of 3.5 °F.**

Review Response

- 1. Indication light is not a factory option on this product.**
- 2. Mounting bracket is selected as stainless steel.**
- 3. Confirmed.**

Catalog Number: 254-F0310102C-C1

Description: CONVECTOR - [254] Explosion-proof Heater 1000W, 208V, 1PH, 4A, Size 1, Class I, Divisions 1 & 2, Groups B, C & D; Class I, Zones 1 and 2 Groups IIB + H2; Ignition Temperature Code T2A, 536 DegF (280 DegC)



Job Name: Powers Bentonville WRRF

Quote #	Line #	Qty	Tag
467047	1	3	CH-A01 , CH-A02, CH-A03

Selected Factory Installed Options:

Option Code	Description	Group
C1	Wet Locations - NEMA 3 rated heater construction not available with S1, B2-S1 & S2 thermostat options.	

Selected Field and Thermostat Options:

Line #	Qty	Catalog Number	Description	Tag
2	3	1024754	Thermostat - Wall Mounted, Explosion-proof Heaters - Internal Set Point Adjustment - Class I, Div 1 Group B,C&D, Class II, Div 1 Group E,F&G NEMA 7, Range: 40-120F	CH-A01 , CH-A02, CH-A03

CONVECTOR - [254] Explosion-proof Heater

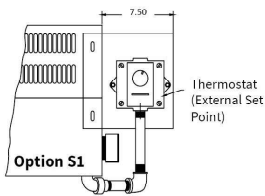
Architect's and Engineer's Specifications

Element – Grade A Nickel-Chromium heating coils are insulated with ceramics and magnesium oxide from the copper heater tube and fitted with large aluminum fins locked in place.

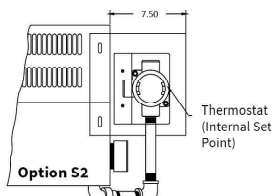
Cabinet – Heavy gauge galvanized steel cabinet is painted with a beige powder coat for durability. Cabinet should be mounted at least 6 inches (152 mm) above the floor. Factory-furnished wall brackets make installation easy.

Thermal Protection – A linear limit, automatic reset thermal cutout is built into every unit.

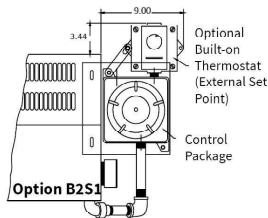
Complete Electrical Package – For larger single-phase and all three-phase units, a built-on contactor and transformer option package are available.



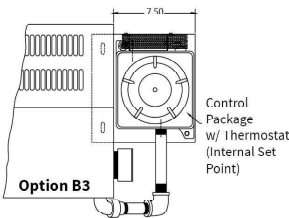
Thermostat is rated for Class I, Groups C and D
Class II Groups E, F and G



Thermostat is rated for Class I, Groups B, C and D
Class II Groups E, F and G



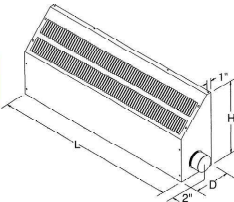
Thermostat is rated for Class I, Groups C and D
Class II Groups E, F and G



Thermostat is rated for Class I, Groups B, C and D
Class II Groups E, F and G

Dimensions and Weights

Unit Size	Dimensions - In. (cm)			Weight - Lb (kg)
	Length (L)	Height (H)	Depth (D)	
1	26 (66)	6 (15)	4-1/2 (11)	13 (5.9)
2	26 (66)	16 (41)	8 (20)	27 (12.2)
3	39 (99)	16 (41)	8 (20)	36 (16.3)
4	67-1/2 (171)	16 (41)	8 (20)	60 (27.2)





Hazloc Heaters™

Safe heat when you need it!



EX SERIES
Caliber™

**For heating or
cooling applications**

BTX2-15A-W-N-A

Bi-metal Explosion-Proof Room Thermostat For Hazardous Locations

Class I, Division 1 & 2, Groups B, C & D
Class II, Division 1, Groups E, F & G
Class II, Division 2, Groups F & G; Class III; T6

Class I, Zone 1, Ex db, Groups IIA, IIB+H₂, T6, Gb
Class I, Zone 2, Ex dc, Groups IIA, IIB+H₂, T6, Gc
Class I, Zone 1, AEx db, Groups IIA, IIB+H₂, T6, Gb
Class I, Zone 2, AEx dc, Groups IIA, IIB+H₂, T6, Gc
Class II, Zone 21, Ex tb, Groups IIIA, IIIB & IIIC, T85°C, Db
Class II, Zone 22, Ex tc, Groups IIIA, IIIB & IIIC, T85°C, Dc
Class II, Zone 21, AEx tb, Groups IIIA, IIIB & IIIC, T85°C, Db
Class II, Zone 22, AEx tc, Groups IIIA, IIIB & IIIC, T85°C, Dc

-50°C ≤ T amb ≤ +40°C, IP66, Type 4

**Suitable for
Hydrogen gas
environments.**

www.HazlocHeaters.com

For hazardous-location air temperature control rely on the **Hazloc Heaters™ BTX ExCaliber™** series of bi-metal explosion-proof thermostats for the most dependable, accurate, robust and trouble-free service available.

Features & benefits include:

- Bolted, removable cover provides instant access for installation and servicing.
- Dial locking screw prevents unwanted adjustments.
- Phenolic thermal-break standoffs between knob & base limits heat creep.
- IP66/Type 4 ratings for moisture/dust protection.
- Aluminum housing with no exposed copper or brass provides suitability for H₂S environments.
- CFC & mercury free, no leveling required.
- Fast-acting, accurate, bi-metal sensing plate is unaffected by altitude.
- Two (3/4" NPT) openings for easy field wiring (includes one 3/4" plug).
- Field wiring from either vertical or horizontal orientation for flexibility of install.
- Can be used to directly control small HP motors and resistive loads.
- Third party impact tested for ensured durability.

Typical Applications:

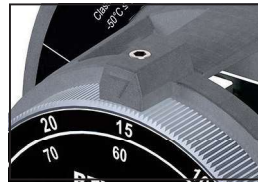
- Heaters, exhaust fans & air conditioners

Protection Method:

- Flameproof: CSA 22.2 No. 30
UL 1203
CSA/UL 60079-1
- Dust ignition proof: CSA 22.2 No. 25
UL 1203
CSA/UL 60079-31
- Ingress protection: IEC 60529
(IP66/Type 4)
CSA 22.2 No. 94
UL 50

The **BTX** is available as a built-in option on all sizes of **Hazloc Heaters™ XEU1** explosion-proof electric air heaters.

Field retrofit kits are available to convert XEU1 heaters (heater model code ending in suffix "B") with a BTX built-in thermostat into a heater with a wall mount thermostat configuration.



Dial locking screw



Specifications: (SPDT for heating or cooling applications)

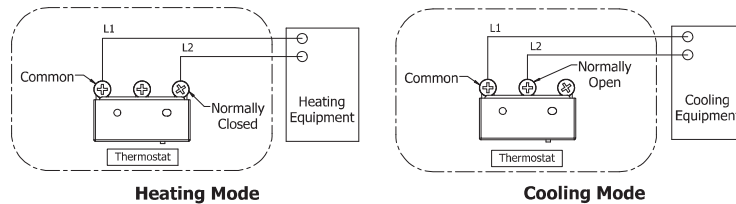
Temperature adjustment range: 5°C to 25°C (40°F to 80°F)
 Temperature differential: +/- 1°C (1.8°F) from set point
 Operating limits: -50°C (58°F) ≤ T amb ≤ +40°C (104°F)
 Storage limits: -50°C to +60°C (-58°F to +140°F)
 Switching: Snap acting
 Field wiring openings: Two 3/4" NPT (includes one 3/4" plug)
 Ingress protection: IP66/Type 4
 Net weight: 1.9 Kg (4.2 Lbs)
 Ship weight: 2.0 Kg (4.4 Lbs)
 Shipping dimensions: 12.7 cm x 12.7 cm x 15.2 cm (5" x 5" x 6")

Electrical rating:

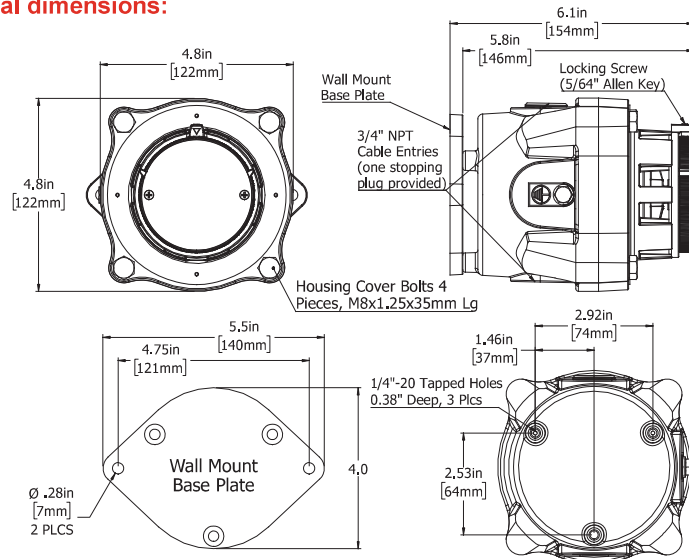
15 Amps Res., 480VAC Max., 50/60Hz; 3/4HP @ 125VAC;
 1 1/2HP @ 250VAC, Pilot Duty: 490VA @ 125VAC, 800VA @ 250VAC

Model: BTX2-15A-W-N-A

Wiring diagram:



Physical dimensions:



Limited 36-Month Warranty

Hazloc Heaters™ warrants all **BTX ExCaliber™** series of bi-metal explosion-proof thermostats against defects in materials and workmanship under normal conditions of use for a period of thirty-six (36) months from date of purchase based on the following terms:

1. The thermostat must not be modified in any way.
2. The thermostat must be stored, installed and used only in accordance with the owner's manual and attached data plate information.
3. The complete thermostat may be returned to our manufacturing plant for repair or replacement (at our discretion), freight charges prepaid.
4. Contamination by dirt, dust, etc. or corrosion will not be considered as defects.
5. This warranty shall be limited to the actual equipment involved and, under no circumstances, shall include or extend to installation or removal costs, or to consequential damages or losses.

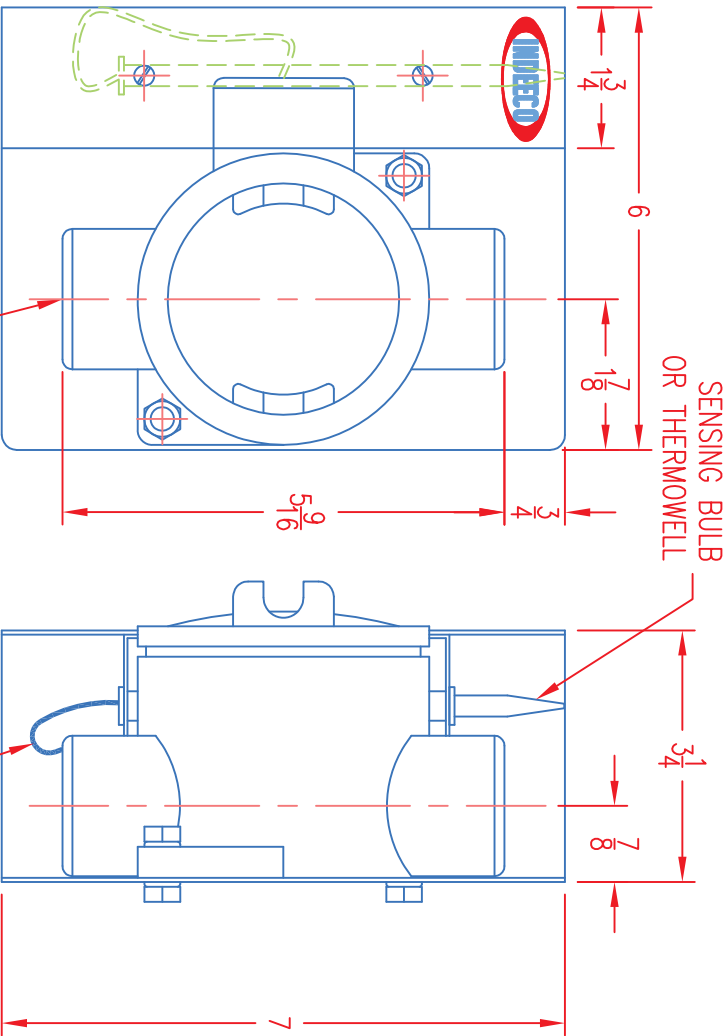
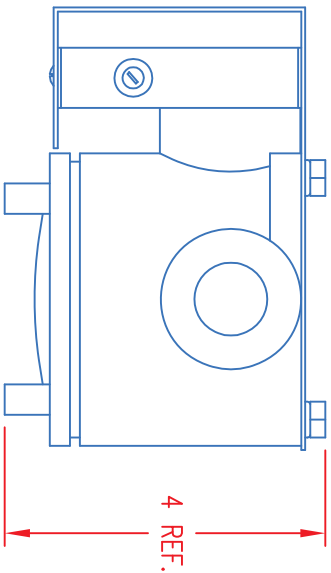


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 www.HazlocHeaters.com

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 The information contained in this brochure has been carefully checked and verified for accuracy. Specifications subject to change without notice.

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 Cat No. BTX2-N-202303-0

CHECK CONFIG REQUIRED	TYPE	INDECO P/N
	STD. ON/OFF 40-120°F	1024754
	STD 2200 OHM	1007018
	CORROSION RESIST ON/OFF 40-120°F	1025396
	CORROSION RESIST 2200 OHM	1018806



3/4 NPT CONDUIT OPENINGS
TOP & BOTTOM

CAPILLARY (ON TSTAT ONLY)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	ADDED RAININGS TO WIRING DIAGRAMS	5/9/10	MAJOR
C	ADDED ITEMS 1024754 & 1025396.	11/9/10	K. DUEY
D	REMOVED 0-100°F THERMOSTAT ASSEMBLIES 1007022 & 1018805.	11/9/10	K. DUEY
E	UPDATED BORDER	10/9/20	D. RUTTS

- NOTES:
1. RATING – CLASS1 DIV1 GRP B,C,D
CLASS2 DIV1 GRP E,F,G
CSA LISTING UNDER FILE LR11895-76

ENCLOSURE GASKETED & SUITABLE FOR OUTDOOR USE

2. STANDARD CONSTRUCTION:

ENCLOSURE – CAST IRON – PAINTED

MOUNTING BRACKETS – SST

EXPOSED THERMOSTAT BULB – (ON/OFF) – COPPER

THERMOWELL (2200 OHM) – SST

ASSEMBLY HARDWARE – PLATED STEEL

OPTIONAL CORROSION RESISTANT CONSTRUCTION:

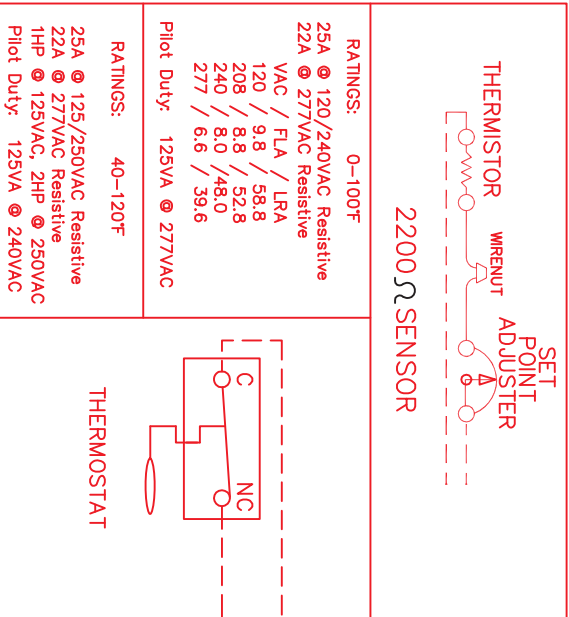
EPOXY PAINTED ENCLOSURE.

NICKEL PLATED BULB – FOR ON/OFF.

SST HARDWARE.

3. ADJUSTMENT – BOTH THE ON/OFF & 2200 OHM VERSIONS CAN HAVE THE SET POINT ADJUSTED BY UNSCREWING THE ENCLOSURE COVER TO ACCESS THE ADJUSTMENT KNOB. POWER MUST BE TEMPORARILY REMOVED FROM THE THERMOSTAT WHEN ADJUSTING THE SET POINT OR THE AREA MUST BE FREE OF COMBUSTIBLE GAS WHILE THE COVER IS REMOVED

WIRING DIAGRAMS



ASPEO
HEATING GROUP

TITLE: EXPLOSIONPROOF ROOM SENSING TSTAT
OR 2200 OHM PROPORTIONAL CONTROLLER

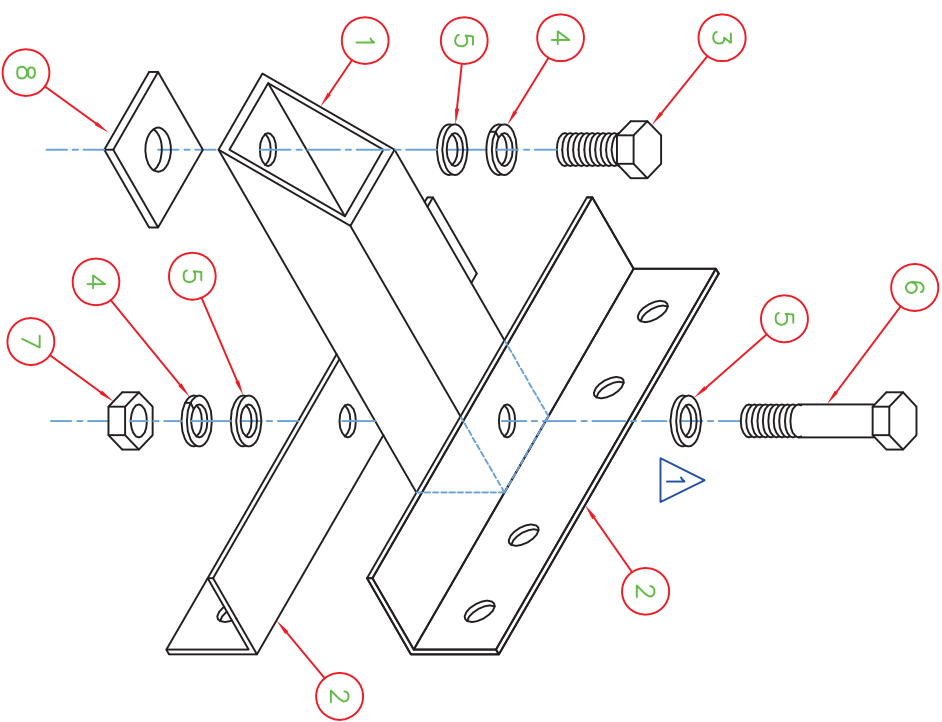
± 1/8

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DRAFTING	DATE
J. LESLIE	10/16/01
ENGR.	DATE
C. DAY	10/16/01

"THIS DRAWING IS THE PROPERTY OF ASPEO HEATING GROUP AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART OR USED FURNISHING INFORMATION TO ANY PERSON WITHOUT THE WRITTEN CONSENT OF ASPEO, OR FOR ANY PURPOSE DETRIMENTAL TO THEIR INTEREST, AND TO BE RETURNED UPON REQUEST."

ALL DIMENSIONS ARE IN INCHES



Explosion-Proof-Electric-Unit-Heaters



SUBMITTAL

JOB NAME	Bentonville Wastewater Resource Recovery Facility
PRODUCT	Explosion Proof Electric Unit Heater
MANUFACTURER	INDEECO
SPECIFICATION	15500-11
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 2, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

SUBMITTAL NOTES

Review Comments

- 1. For all electric unit heaters, a pilot light visible on the heater exterior to indicate heater operation is required per Specification Section 15500 paragraph 2.04.B.4.c. Confirm this option is provided and mark on submittal pages 9, 11,29 of 48.**
- 2. Confirm corrosion resistant wall mounting brackets are included for electric unit heaters as required by Schedule Note 2 on Contract Drawing H-4.**
- 3. Confirm the NEMA 4X thermostats submitted for the electric unit heaters meet the requirement in Specification Section 15500 paragraph 2.04.M.6.b. for a non-adjustable differential of 3.5 °F.**

Review Response

- 1. Indication light has been selected.**
- 2. Mounting bracket is selected as stainless steel.**
- 3. Confirmed.**

Catalog Number: 233-FA-0056U-C1DL**Description:** EXP - [233] Ultra-Safe Explosion-proof Unit Heater 60HZ, 5000W, 480V, 3PH, 7A, Size 1, Class I, Divisions 1 and 2, Groups C and D; Class II, Divisions 1 and 2, Groups F and G; Class I, Zones 1 and 2, Group IIB; Temperature Code T3C, 320°F (160°C)**Job Name:** Powers Bentonville WRRF

Quote #	Line #	Qty	Tag
467047	9	7	EUH-A07, EUH-A08, EUH-A10, EUH-A11, EUH-A12, EUH-A13, EUH-A14

Selected Factory Installed Options:

Option Code	Description	Group
C1	316 Stainless Steel Corrosion Resistant Construction (Waste Water Treatment Plant) - Frame Size 1	
D	Disconnect Switch - up to 15A, up to 480V, 1 & 3 Phase	
L	"Heater On" Pilot Light	

Selected Field and Thermostat Options:

Line #	Qty	Catalog Number	Description	Tag
10	7	1022454-S	Stainless Steel Wall Mounting Kit (for Option C1 or C2)	EUH-A07, EUH-A08, EUH-A10, EUH-A11, EUH-A12, EUH-A13, EUH-A14
11	7	1036506	Thermostat - Wall Mounted, Explosion-proof heaters, Adjustable, Class I, Div 1, Groups C&D, Class II, Div 1, Groups E,F,&G, NEMA 4,7, 40-80F (5-25C) Range	EUH-A07, EUH-A08, EUH-A10, EUH-A11, EUH-A12, EUH-A13, EUH-A14

Catalog Number: 233-FA-0086U-C1DL**Description:** EXP - [233] Ultra-Safe Explosion-proof Unit Heater 60HZ, 7500W, 480V, 3PH, 10A, Size 1, Class I, Divisions 1 and 2, Groups C and D; Class II, Divisions 1 and 2, Groups F and G; Class I, Zones 1 and 2, Group IIB; Temperature Code T3C, 320°F (160°C)**Job Name:** Powers Bentonville WRRF

Quote #	Line #	Qty	Tag
467047	14	2	EUH-A05, EUH-A06

Selected Factory Installed Options:

Option Code	Description	Group
C1	316 Stainless Steel Corrosion Resistant Construction (Waste Water Treatment Plant) - Frame Size 1	
D	Disconnect Switch - up to 15A, up to 480V, 1 & 3 Phase	
L	"Heater On" Pilot Light	

Selected Field and Thermostat Options:

Line #	Qty	Catalog Number	Description	Tag
15	2	1022454-S	Stainless Steel Wall Mounting Kit (for Option C1 or C2)	EUH-A05, EUH-A06
16	2	1036506	Thermostat - Wall Mounted, Explosion-proof heaters, Adjustable, Class I, Div 1, Groups C&D, Class II, Div 1, Groups E,F,&G, NEMA 4,7, 40-80F (5-25C) Range	EUH-A05, EUH-A06

Catalog Number: 233-FA-0036U-C1DL**Description:** EXP - [233] Ultra-Safe Explosion-proof Unit Heater 60HZ, 3000W, 480V, 3PH, 5A, Size 1, Class I, Divisions 1 and 2, Groups C and D; Class II, Divisions 1 and 2, Groups F and G; Class I, Zones 1 and 2, Group IIB; Temperature Code T3C, 320°F (160°C)**Job Name:** Powers Bentonville WRRF

Quote #	Line #	Qty	Tag
467047	17	1	EUH-A09

Selected Factory Installed Options:

Option Code	Description	Group
C1	316 Stainless Steel Corrosion Resistant Construction (Waste Water Treatment Plant) - Frame Size 1	
D	Disconnect Switch - up to 15A, up to 480V, 1 & 3 Phase	
L	"Heater On" Pilot Light	

Selected Field and Thermostat Options:

Line #	Qty	Catalog Number	Description	Tag
18	1	1022454-S	Stainless Steel Wall Mounting Kit (for Option C1 or C2)	EUH-A09
19	1	1036506	Thermostat - Wall Mounted, Explosion-proof heaters, Adjustable, Class I, Div 1, Groups C&D, Class II, Div 1, Groups E,F,&G, NEMA 4,7, 40-80F (5-25C) Range	EUH-A09

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EXPLOSION-PROOF UNIT HEATER SUBMITTAL

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Class I, Divisions 1 & 2, Groups C & D

Class II, Divisions 1 & 2, Groups E, F & G

Class I, Zones 1 & 2, Groups IIB

Ignition Temperature Code T3C, 320°F (160°C)

Unit Heater Listing 60 Hz

KW	Volts	Phase	Total Amps (1)	Frame Size	Approximate Air Temperature Rise °F (°C)	Catalog Number	☐
3	208	1	17	1	15 (8)	233-FA-0036C	☐
	240	1	15	1	15 (8)	233-FA-0036J	☐
	208	3	10	1	15 (8)	233-FA-0036D	☐
	240	3	9	1	15 (8)	233-FA-0036K	☐
	480	3	5	1	15 (8)	233-FA-0036U	☒
	600	3	4	1	15 (8)	233-FA-0036Z	☐
5	208	1	26	1	25 (13)	233-FA-0056C	☐
	240	1	23	1	25 (13)	233-FA-0056J	☐
	208	3	16	1	25 (13)	233-FA-0056D	☐
	240	3	14	1	25 (13)	233-FA-0056K	☐
	480	3	7	1	25 (13)	233-FA-0056U	☒
	600	3	6	1	25 (13)	233-FA-0056Z	☐
7.5	208	1	38	1	28 (16)	233-FA-0086C	☐
	240	1	34	1	28 (16)	233-FA-0086J	☐
	208	3	23	1	28 (16)	233-FA-0086D	☐
	240	3	20	1	28 (16)	233-FA-0086K	☐
	480	3	10	1	28 (16)	233-FA-0086U	☒
	600	3	9	1	28 (16)	233-FA-0086Z	☐
10	240	1	44	1	38 (21)	233-FA-0106J	☐
	208	3	30	1	38 (21)	233-FA-0106D	☐
	240	3	26	1	38 (21)	233-FA-0106K	☐
	480	3	13	1	38 (21)	233-FA-0106U	☐
	600	3	11	1	38 (21)	233-FA-0106Z	☐
15	208	3	44	2	27 (15)	233-FB-0156D	☐
	240	3	38	2	27 (15)	233-FB-0156K	☐
	480	3	19	2	27 (15)	233-FB-0156U	☐
	600	3	16	2	27 (15)	233-FB-0156Z	☐
20	480	3	25	2	35 (19)	233-FB-0206U	☐
	600	3	21	2	35 (19)	233-FB-0206Z	☐
25	480	3	31	3	26 (14)	233-FC-0256U	☐
	600	3	25	3	26 (14)	233-FC-0256Z	☐
30	480	3	37	3	25 (13)	233-FC-0306U	☐
	600	3	30	3	25 (13)	233-FC-0306Z	☐
35	480	3	43	3	29 (16)	233-FC-0356U	☐
	600	3	35	3	29 (16)	233-FC-0356Z	☐

(1) Total Amps = Heating element amps and motor amps.

ULTRA-SAFE™ EXP



EXPLOSION-PROOF UNIT HEATER SUBMITTAL

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Class I, Divisions 1 and 2, Groups C and D

Class II, Divisions 1 and 2, Groups E, F & G

Class I, Zones 1 and 2, Group IIB

Unit Heater Listing 50 Hz

Temperature Code T3C, 320°F (160°C)

KW	Volts	Phase	Total Amps (1)	Frame Size	Approximate Air Temperature Rise °F (°C)	Catalog Number	☒
2.5	220	1	14	1	14 (8)	233-FA-0036E	☐
	220	3	9	1	14 (8)	233-FA-0036F	☐
	380	3	6	1	14 (8)	233-FA-0036G	☐
	400	3	6	1	14 (8)	233-FA-0036H	☐
	414	3	5	1	14 (8)	233-FA-0036I	☐
4.2	220	1	21	1	24 (13)	233-FA-0056E	☐
	220	3	13	1	24 (13)	233-FA-0056F	☐
	380	3	9	1	24 (13)	233-FA-0056G	☐
	400	3	8	1	24 (13)	233-FA-0056H	☐
	415	3	7	1	24 (13)	233-FA-0056I	☐
6.3	220	1	31	1	28 (16)	233-FA-0076E	☐
	220	3	19	1	28 (16)	233-FA-0076F	☐
	380	3	12	1	28 (16)	233-FA-0076G	☐
	400	3	11	1	28 (16)	233-FA-0076H	☐
	415	3	10	1	28 (16)	233-FA-0076I	☐
8.4	220	1	40	1	38 (21)	233-FA-0096E	☐
	220	3	24	1	38 (21)	233-FA-0096F	☐
	380	3	15	1	38 (21)	233-FA-0096G	☐
	400	3	13	1	38 (21)	233-FA-0096H	☐
	415	3	13	1	38 (21)	233-FA-0096I	☐
12.5	220	3	35	2	26 (14)	233-FB-0136F	☐
	380	3	21	2	26 (14)	233-FB-0136G	☐
	400	3	19	2	26 (14)	233-FB-0136H	☐
	415	3	18	2	26 (14)	233-FB-0136I	☐
16.7	220	3	46	2	35 (19)	233-FB-0176F	☐
	380	3	28	2	35 (19)	233-FB-0176G	☐
	400	3	25	2	35 (19)	233-FB-0176H	☐
	415	3	24	2	35 (19)	233-FB-0176I	☐
21	380	3	33	3	26 (14)	233-FC-0216G	☐
	400	3	32	3	26 (14)	233-FC-0216H	☐
	415	3	31	3	26 (14)	233-FC-0216I	☐
25	380	3	39	3	30 (17)	233-FC-0256G	☐
	400	3	37	3	30 (17)	233-FC-0256H	☐
	415	3	36	3	30 (17)	233-FC-0256I	☐

(1) Total Amps = Heating element amps and motor amps.

EXPLOSION-PROOF UNIT HEATER SUBMITTAL

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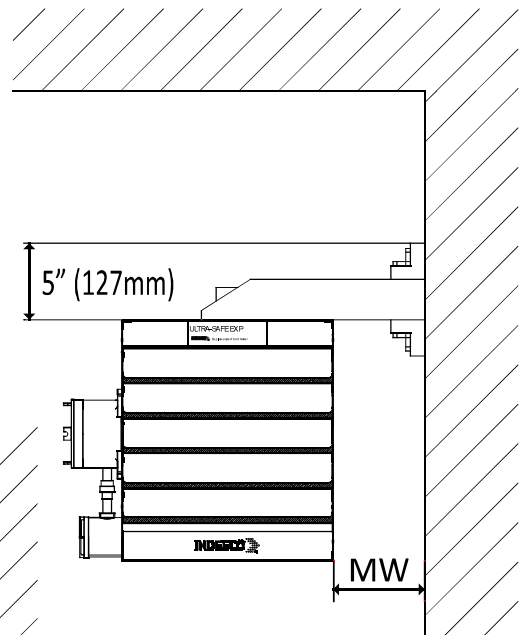
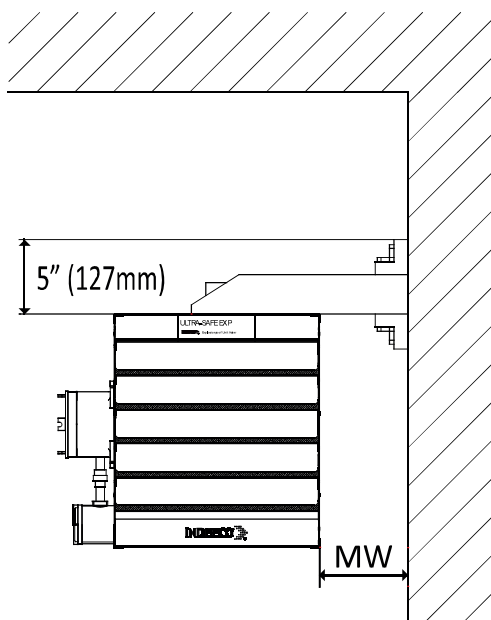
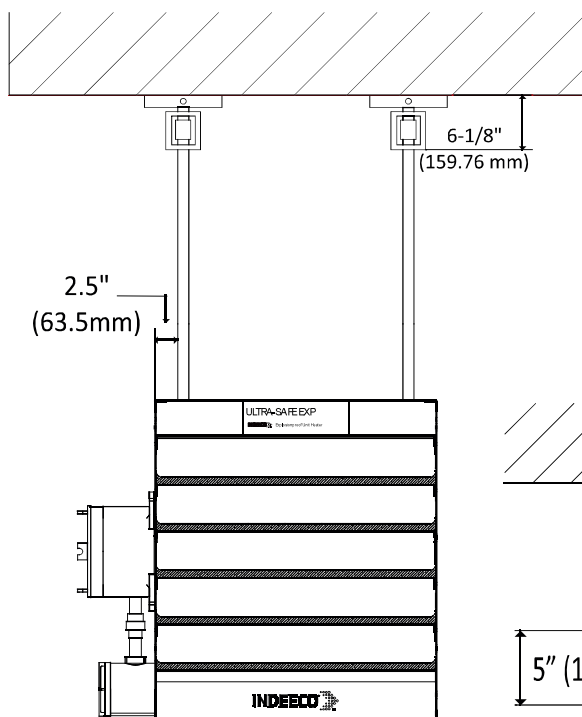
Factory Built-in Options

Code	Option	Description	☒
C1	316 Stainless Steel Corrosion Resistant Construction (Waste Water Treatment Plants)	316 Stainless steel heat exchanger with aluminum fins; 316 stainless steel cabinet; aluminum fan blade; cast aluminum NEMA 4X, 7, 9 control enclosure; corrosion resistant hardware. Frame Size 1 2 3	☒
C2	Dirty Duty Corrosion-Resistant Construction (Chemical Plants)	Epoxy-coated motor; Heresite® coated heat exchanger, cabinet and fan blade; cast aluminum NEMA 4X, 7, 9 control enclosure; corrosion resistant hardware. Frame Size 1 2 3	☐
D	Disconnect Switch	Factory installed on the unit heater above the control enclosure. This is an inexpensive and positive way to meet NEC/CEC requirements for a disconnecting means within sight of the heater. <u>Max Total Motor/Heater Amps</u> Max 15 Amps, up to 480V, 1 & 3 Phase Max 60 Amps, up to 600V, 1 & 3 Phase	☒
E	Group E (Metal Dust) Construction	Class II, Group E (Metal Dust) Construction Temperature Code T3C, 320°F (160°C).	☐
K	"Warning" Pilot Light	Indicates when the thermal cutouts have tripped and the unit heater needs servicing.	☐
L	"Heater On" Pilot Light	Indicates when the electric heating elements are energized.	☒
M	Manual Reset Thermal Cutout with Backup Contactor	A pilot duty manual reset thermal cutout with a backup contactor is provided for independent secondary over temperature protection. This option cannot be provided if option Code S or V are also specified.	☐
S	Built-In Auto/Fan Selector Switch	A two-position switch wired to the control circuit for auto (automatic heat) and fan only control. This selector switch cannot be provided if option Code M or V are also specified.	☐
S1	Built-In Controls for Remote Auto/Fan Selector Switch	Unit is prewired for field addition of remote auto/fan selector switch. This option cannot be provided if Code M or V are also specified.	☐
T	Adjustable Thermostat	Factory installed and prewired to the control enclosure. Thermostat is adjustable from 50 to 90°F (10 to 32°C) range.	☐
T1	Adjustable Thermostat for Wet Location	Factory installed and prewired to the control enclosure. Thermostat is adjustable from 40 to 80°F (5 to 25°C) range.	☐
V	120 Volt Control Circuit, Fused Secondary and Grounded	This can be provided when required for special external thermostat circuit. This option cannot be provided if option Code S or M are also specified. Nor can both K and L be specified.	☐
W	Wet Location Construction Features – IP55	Unit provided with components suitable for IP55 wet locations.	☐

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EXPLOSION-PROOF UNIT HEATER SUBMITTAL

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Size	MH In. (mm)	MW In. (mm)	☒
1	11.063 (281)	9 (228.6)	☐
2	15.063 (382.6)	7 (177.8)	☐
3	19.063 (484.2)	5 (127)	☐

Mounting Kits for Sizes 1, 2 & 3

Type	Standard Painted Steel	☒	Stainless Steel Option Codes C1 & C2	☒
Ceiling Mount	1022451	☐	1022451-S	☐
Wall Mount	1022454	☐	1022454-S	☒
Pole Mount	1022457	☐	1022457-S	☐

Wall Mounted Accessories

(Class I, Groups C & D; Class II, Groups E, F & G)

Catalog Number	Description	☒
1007002	Thermostat: 50 – 90°F (10 – 32°C) range. Indoor Type 1	☐
1030790	Thermostat: 40 – 80°F (5 – 25°C) range. IP55, Type 4	☒
1001744	Auto/fan selector: Type 1	☐
1031042	Auto/fan selector: Type 4	☐

ULTRA-SAFE™ EXP



EXPLOSION-PROOF UNIT HEATER SUBMITTAL

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Dimensions, Airflows and Weights

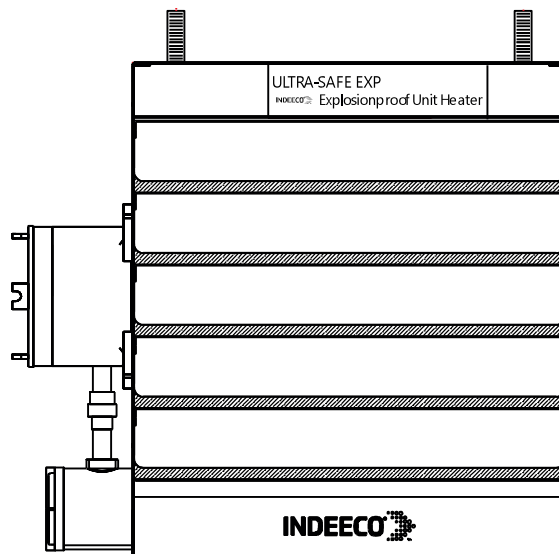
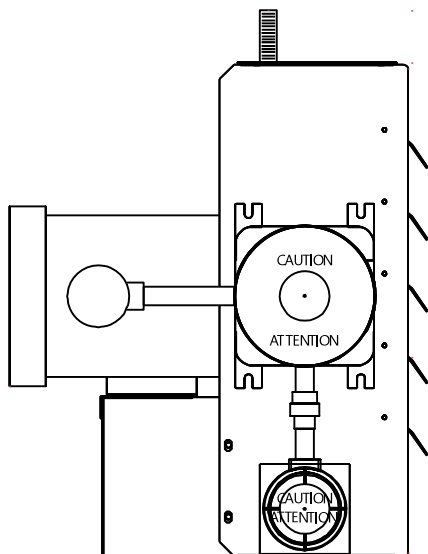
Frame Size		Size 1	Size 2	Size 3
Overall Heater Dimensions	'X' In. (mm)	22.50 (571.50)	22.50 (571.50)	22.75 (577.85)
	'Y' In. (mm)	19.375 (492.125)	23.375 (593.725)	27.375 (695.325)
	'Z" In. (mm)	16.063 (408)	20.188 (512.775)	24.188 (614.375)
Weight	Net Lbs (kgs)	110 (49.89)	150 (68.03)	190 (86.18)
	Shipping Lbs (kgs)	130 (58.96)	169 (76.65)	216 (97.97)

60 Hertz Heaters

KW Range		3-5	7.5-10	15	20	25	30-35
Airflow Characteristics	Airflow Volume CFM (cubic meter/hr.)	650 (1104)	850 (1444)	1800 (3058)	3110 (5283)	3850 (6541)	
	Air Throw Feet (m)	15 (4.5)	25 (7.6)	45 (13.7)	65 (19.8)	75 (22.8)	
Motor/Fan	RPM	1725					
	HP	1/4				1/2	
	Fan Blade Dia. In. (mm)	12 (304.8)		16 (406.4)		20 (508)	

50 Hertz Heaters

KW Range		2.5-4.2	6.3-8.4	12.5	16.7	21-25
Airflow Characteristics	Airflow Volume CFM (cubic meter/hr.)	550 (934)	700 (1189)	1500 (2549)	2600 (4417)	
	Air Throw Feet (m)	13 (4)	22 (7)	39 (12)	57 (17)	
Motor/Fan	RPM	1438				
	HP	1/4				1/2
	Fan Blade Dia. In. (mm)	12 (304.8)		16 (406.4)		20 (508)



EXPLOSION-PROOF UNIT HEATER SUBMITTAL

Page 6 of 7

Sample Specification

A specification can be prepared by using the following information. A check box has been supplied so that you may mark those selections which you require. Material which is part of the standard ULTRA-SAFE™ EXP Explosion-Proof Unit Heater specification has already been checked.

- ☒ 1. Electric explosion-proof unit heaters shall be INDEECO ULTRA-SAFE™ EXP SERIES, of the KW rating, voltage and phase specified in the schedule. They shall be forced fan type, cCSAus Approved for:
- ☒ Class I, Divisions 1 and 2, Groups C & D; Class II, Divisions 1 and 2, Groups F & G
Class I, Zone 1 and 2, Group IIB
Ignition Temperature Code No. T3C, 320°F (160°C) (Standard construction)
 - ☐ Class II, Divisions 1 and 2, Group E, is described to the following text
Ignition Temperature Code No. T3C, 320°F (160°C) (Group E, Metal Dust)
- ☒ 2. Unit heaters shall have an automatic and a manual reset thermal cutouts for overtemperature protection, controlling magnetic contactor and 24 volt control circuit transformer housed in a NEMA 7, 9 cast aluminum enclosure.
- ☒ 3. The heat exchanger shall be liquid-to-air design, utilizing an all welded steel headers and tube construction with spiral wound aluminum fins. Nontoxic, inhibited, propylene glycol heat transfer fluid shall be used that provides freeze protection down to -49°F (-45°C). Pressure relief valve setting to be 70 psig. The heat exchanger shall include industrial grade INDEECO electric heating elements.
- ☒ 4. Cabinet shall be provided with adjustable outlet louvers having minimum opening safety stops.
- ☒ 5. Fan motor shall include permanently lubricated ball bearings and built-in thermal overload protection. Motor to operate at line voltage and be prewired to the control enclosure to eliminate the need for separate field wiring to the motor.
- ☒ 6. The heater shall be provided with an INDEECO accessory mounting kit designed to bear the weight of the heater assembly (check one):
- ☐ Ceiling mounting kit
 - ☒ Wall mounting kit
 - ☐ Pole mounting kit
- ☒ 7. Construction Type (check one):
- ☐ Standard Construction utilizing an all welded heat exchanger consisting of painted steel headers and with spiral wound aluminum fins; industrial grade, corrosion-resistant cabinet fabricated from powder coated 14 gauge steel, epoxy-coated motor; aluminum fan blade; NEMA 7, 9 cast aluminum enclosure.
 - ☐ Dirty Duty Corrosion-Resistant Construction (Chemical Plants) with epoxy-coated motor; Heresite® coated heat exchanger, cabinet and fan blade; NEMA 4X, 7, 9 terminal box.
 - ☒ 316 Stainless Steel Corrosion-Resistant Construction (Waste Water Treatment Plants) with 316 stainless steel heat exchanger with aluminum fins, 316 stainless steel cabinet; aluminum fan blade; cast aluminum NEMA 4X, 7, 9 terminal box; epoxy-coated motor; aluminum fittings; stainless steel conduit and hardware.
- ☐ 8. Wet Location Construction:
- Wet location requirements – IP55 motor rating and Type 4 enclosures. Requires selecting either Dirty Duty or 316 Stainless Corrosion-Resistant Construction.
- ☒ 9. The following factory installed and prewired control options are to be supplied:
- ☐ Thermostat: 50-90°F (10-32°C); Indoor, Type 1
 - ☒ Thermostat: 40-80°F (5-25°C) IP55, Type 4 (can be specified for all constructions).
 - ☒ Disconnect switch with external handle.
 - ☐ Manual reset thermal cutout with backup contactor (cannot be provided if selector switch 120 volt control circuit is also specified).

- ☐ Two-position auto/fan selector switch for fan only control (cannot be provided if manual reset cutout with backup contactor or 120 volt control circuit is also specified).
 - ☐ Built-in
 - ☐ Remote
 - ☐ 120 volt control circuit for special external thermostat circuit (cannot be provided if selector switch or manual reset thermal cutout with backup contactor, nor can both warning and heater on pilot lights be specified).
 - ☒ "Heater On" pilot light to indicate when heating elements are energized.
 - ☐ "Warning" pilot light to indicate when thermal cutouts have tripped and heater needs to be serviced.
 - ☐ 50 Hertz for international requirements.
- ☒ Accessory room controls shall be furnished with each heater for remote field mounting.
- ☐ Thermostat: 50-90°F (10-32°C); Indoor, Type 1; UL Listed and CSA Certified.
 - ☒ Thermostat: 40-80°F (5-25°C) IP55, Type 4: cCSAus Certified.
 - ☐ Remote Fan Switch: Auto/fan selector switch for fan only control; Type 1; UL Listed and CSA Certified. (Cannot be provided if manual reset cutout with backup contactor or 120 volt control circuit is also specified.)
 - ☐ Remote Fan Switch: Auto/fan selector switch for fan only control; Type 4; UL Listed and CSA Certified. (Cannot be provided if manual reset cutout with backup contactor or 120 volt control circuit is also specified.)



Hazloc Heaters™

Safe heat when you need it!



EX SERIES
Caliber™

**For heating or
cooling applications**

BTX2-15A-W-N-A

Bi-metal Explosion-Proof Room Thermostat For Hazardous Locations

Class I, Division 1 & 2, Groups B, C & D

Class II, Division 1, Groups E, F & G

Class II, Division 2, Groups F & G; Class III; T6

Class I, Zone 1, Ex db, Groups IIA, IIB+H₂, T6, Gb

Class I, Zone 2, Ex dc, Groups IIA, IIB+H₂, T6, Gc

Class I, Zone 1, AEx db, Groups IIA, IIB+H₂, T6, Gb

Class I, Zone 2, AEx dc, Groups IIA, IIB+H₂, T6, Gc

Class II, Zone 21, Ex tb, Groups IIIA, IIIB & IIIC, T85°C, Db

Class II, Zone 22, Ex tc, Groups IIIA, IIIB & IIIC, T85°C, Dc

Class II, Zone 21, AEx tb, Groups IIIA, IIIB & IIIC, T85°C, Db

Class II, Zone 22, AEx tc, Groups IIIA, IIIB & IIIC, T85°C, Dc

-50°C ≤ T amb ≤ +40°C, IP66, Type 4

**Suitable for
Hydrogen gas
environments.**

www.HazlocHeaters.com

For hazardous-location air temperature control rely on the **Hazloc Heaters™ BTX ExCaliber™** series of bi-metal explosion-proof thermostats for the most dependable, accurate, robust and trouble-free service available.

Features & benefits include:

- Bolted, removable cover provides instant access for installation and servicing.
- Dial locking screw prevents unwanted adjustments.
- Phenolic thermal-break standoffs between knob & base limits heat creep.
- IP66/Type 4 ratings for moisture/dust protection.
- Aluminum housing with no exposed copper or brass provides suitability for H₂S environments.
- CFC & mercury free, no leveling required.
- Fast-acting, accurate, bi-metal sensing plate is unaffected by altitude.
- Two (3/4" NPT) openings for easy field wiring (includes one 3/4" plug).
- Field wiring from either vertical or horizontal orientation for flexibility of install.
- Can be used to directly control small HP motors and resistive loads.
- Third party impact tested for ensured durability.

Typical Applications:

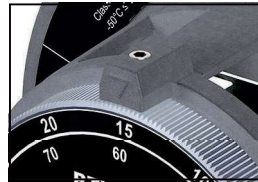
- Heaters, exhaust fans & air conditioners

Protection Method:

- **Flameproof:** CSA 22.2 No. 30
UL 1203
CSA/UL 60079-1
- **Dust ignition proof:** CSA 22.2 No. 25
UL 1203
CSA/UL 60079-31
- **Ingress protection:** IEC 60529
(IP66/Type 4)
CSA 22.2 No. 94
UL 50

The **BTX** is available as a built-in option on all sizes of **Hazloc Heaters™ XEU1** explosion-proof electric air heaters.

Field retrofit kits are available to convert XEU1 heaters (heater model code ending in suffix "B") with a BTX built-in thermostat into a heater with a wall mount thermostat configuration.



Dial locking screw



Specifications: (SPDT for heating or cooling applications)

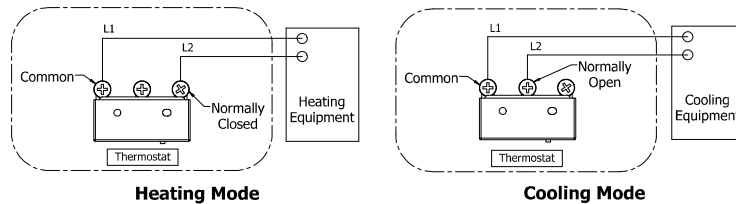
Temperature adjustment range: 5°C to 25°C (40°F to 80°F)
 Temperature differential: +/- 1°C (1.8°F) from set point
 Operating limits: -50°C (58°F) ≤ T amb ≤ +40°C (104°F)
 Storage limits: -50°C to +60°C (-58°F to +140°F)
 Switching: Snap acting
 Field wiring openings: Two 3/4" NPT (includes one 3/4" plug)
 Ingress protection: IP66/Type 4
 Net weight: 1.9 Kg (4.2 Lbs)
 Ship weight: 2.0 Kg (4.4 Lbs)
 Shipping dimensions: 12.7 cm x 12.7 cm x 15.2 cm (5" x 5" x 6")

Electrical rating:

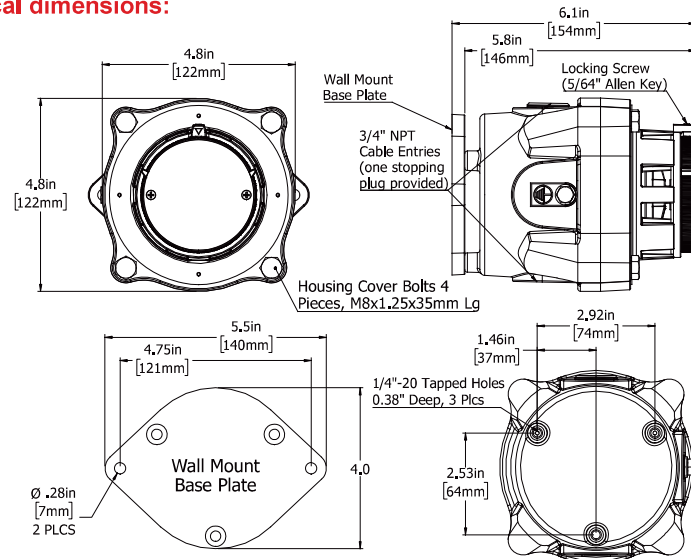
15 Amps Res., 480VAC Max., 50/60Hz; 3/4HP @ 125VAC;
 1 1/2HP @ 250VAC, Pilot Duty: 490VA @ 125VAC, 800VA @ 250VAC

Model: BTX2-15A-W-N-A

Wiring diagram:



Physical dimensions:



Limited 36-Month Warranty

Hazloc Heaters™ warrants all **BTX ExCaliber™** series of bi-metal explosion-proof thermostats against defects in materials and workmanship under normal conditions of use for a period of thirty-six (36) months from date of purchase based on the following terms:

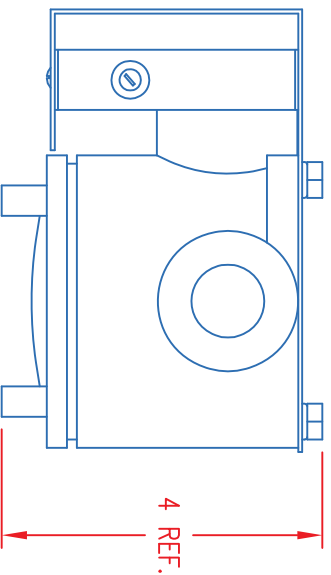
1. The thermostat must not be modified in any way.
2. The thermostat must be stored, installed and used only in accordance with the owner's manual and attached data plate information.
3. The complete thermostat may be returned to our manufacturing plant for repair or replacement (at our discretion), freight charges prepaid.
4. Contamination by dirt, dust, etc. or corrosion will not be considered as defects.
5. This warranty shall be limited to the actual equipment involved and, under no circumstances, shall include or extend to installation or removal costs, or to consequential damages or losses.



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 Calgary, Alberta T2K 5X3 Canada
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 Fax: +1-403-730-2482
 Customer Toll Free (U.S. & Canada):
 +1-866-701-Heat (4328)
 www.HazlocHeaters.com

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 The information contained in this brochure has been carefully checked and verified for accuracy. Specifications subject to change without notice.

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 Cat No. BTX2-N-202303-0



CHECK CONFIG REQUIRED	TYPE	INDECO P/N
	STD. ON/OFF 40-120F	1024754
	STD. 2200 OHM	1007018
	CORROSION RESIST ON/OFF 40-120F	1025396
	CORROSION RESIST 2200 OHM	1018806

REVISIONS		
REV	DESCRIPTION	DATE
B	ADDED RATINGS TO WIRING DIAGRAMS	5/9/10
C	ADDED ITEMS 1024754 & 1025396.	11/9/10
D	REMOVED 0-100°F THERMOSTAT ASSEMBLIES 1007022 & 1018805.	11/10/10
E	UPDATED BORDER	10/19/20

NOTES:

1. RATING - CLASS1 DIV1 GRP B,C,D
CLASS2 DIV1 GRP E,F,G
CSA LISTING UNDER FILE LR11895-76

ENCLOSURE GASKETED & SUITABLE FOR OUTDOOR USE
2. STANDARD CONSTRUCTION:

2. STANDARD CONSTRUCTION:

ENCLOSURE - CAST IRON - PAINTED

MOUNTING BRACKETS - SST

EXPOSED THERMOSTAT BULB - (ON/OFF) - COPPER

THERMOWELL (2200 OHM) – SST

ASSEMBLY HARDWARE - PLATED STEEL

OPTIONAL CORROSION RESISTANT CONSTRUCTION:

EPOXY PAINTED ENCLOSURE.

NICKEL PLATED BULB - FOR ON/OFF.

SST HARDWARE.

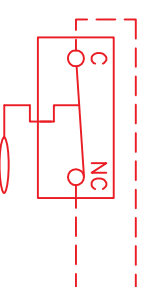
3. ADJUSTMENT – BOTH THE ON/OFF & 2200 OHM VERSIONS CAN HAVE THE SET POINT ADJUSTED BY UNSCREWING THE ENCLOSURE COVER TO ACCESS THE ADJUSTMENT KNOB. POWER MUST BE TEMPORARILY REMOVED FROM THE THERMOSTAT WHEN ADJUSTING THE SET POINT OR THE AREA MUST BE FREE OF COMBUSTIBLE GAS WHILE THE COVER IS REMOVED

WIRING DIAGRAMS



2200 Ω SENSOR

RATINGS: 0—100°F	
25A @ 120/240VAC Resistive 22A @ 277VAC Resistive VAC / FLA / LRA 120 / 9.8 / 58.8 208 / 8.8 / 52.8 240 / 8.0 / 48.0 277 / 6.6 / 39.6	Pilot Duty: 125VA @ 277VAC
RATINGS: 40—120°F	
25A @ 125/250VAC Resistive 22A @ 277VAC Resistive 1HP @ 125VAC, 2HP @ 250VAC Pilot Duty: 125VA @ 240VAC	



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ASPEO
HEATING GROUP

TITLE:
EXPLOSIONPROOF ROOM SENSING TSTAT
OR 2200 OHM PROPORTIONAL CONTROLLER

TOLERANCES UNLESS OTHERWISE SPECIFIED:	
DRAFTING	DATE
J. LESLIE	10/16/01
ENGR.	DATE
C. DAY	10/16/01

 $\pm 1/8$

ALL DIMENSIONS ARE IN INCHES

Architectural-Wall-Heaters



SUBMITTAL

JOB NAME	Bentonville Wastewater Resource Recovery Facility
PRODUCT	Architectural Surface Wall Heaters
MANUFACTURER	INDEECO
SPECIFICATION	15500-12
LOCATION	Bentonville, AR
ENGINEER	Black & Veatch
CONTRACTOR	Comfort Systems USA
CONTRACTOR POC	Josh Zuber
DATE	March 2, 2026
SUBMITTED BY	Contractor Sales: Joey Smith Engineering Accounts: Clayton Murphy

SUBMITTAL NOTES

Review Comments

- 1. For all electric unit heaters, a pilot light visible on the heater exterior to indicate heater operation is required per Specification Section 15500 paragraph 2.04.B.4.c. Confirm this option is provided and mark on submittal pages 9, 11,29 of 48.**

Review Response

- 1. Indication light is not selectable from the factory.**

Catalog Number: 933IW-4404-S

Description: WAI - [933] Architect. Wall Heater 1500W 208V 1P WALL HEATER



Color: Bronze

		White
X		Bronze

Job Name: Powers Bentonville WRRF

Quote #	Line #	Qty	Tag
467047	3	6	WH-A01 , WH-A02 , WH-M01 ,WH-M02 ,WH-M03 ,WH-M04

Selected Factory Installed Options:

No Factory Options Selected

Selected Field and Thermostat Options:

Line #	Qty	Catalog Number	Description	Tag
4	6	WIF-SMF-S	Surface mounting frame for surface installations. Painted to match heater decor, 3 13/16 in. deep, Bronze	WH-A01 , WH-A02 , WH-M01 ,WH-M02 ,WH-M03 ,WH-M04

WAI (933I) SERIES

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS*

The heating equipment shall include electric, automatic fan forced air heater suitable for large area heating, as manufactured by Indeeco®. The heater shall be designed for wall recess or surface mounting. Heaters shall be cULus or equivalent cETLus.

HEATER ASSEMBLY: The heater assembly which fits into the back box shall consist of a fan panel upon which is mounted all of the operational parts of the heater.

HEATING ELEMENT: The heating element shall be of the non-glowing design consisting of a special resistance wire enclosed in a steel sheath to which steel plate fins are copper brazed. It shall be warranted for 5 years.

FAN AND MOTOR: Fan shall be five-bladed aluminum. Fan motor shall be totally enclosed.

FAN DELAY SWITCH: Fan control shall be of bi-metallic, snap-action type and shall activate fan after heating element reaches operating temperature. The fan shall continue to operate after the thermostat is satisfied and until the heating element is cool.

THERMOSTAT: The tamper-proof thermostat shall be of the bi-metallic snap-action type with enclosed contacts. It shall be completely concealed behind the front cover to become tamper proof.

THERMAL CUTOUT: A manual-reset thermal cutout shall be built into the system to shut off the heater in the event of overheating.

POWER ON/OFF SWITCH: A double-pole, single throw ON/OFF switch shall be mounted on the back box for positive disconnect of power supply. It will be completely concealed behind the front grille panel.

PNEUMATIC/ELECTRIC SWITCH: An optional pneumatic/electric switch shall be available for use with energy management systems employing pneumatic pressure devices for controlling comfort levels and set-back operations.

LOW VOLTAGE RELAYS: 24-volt and 120 volt low voltage relays shall be available as optional equipment to control 208, 240 or 277 volt heaters in conjunction with central energy control systems. The built-in thermostat can then be used as one of the thermostats in an automatic night set back operation.

BACK BOX: The back box shall be designed for duty as a recessed rough-in box in either masonry or frame installations, and is also used with the surface mounting frame in surface mounting installations. The back box shall be 20-gauge galvanized steel and shall contain knockouts through which power leads are brought.

FRONT PANEL: The front panel shall be of the bar grille type and shall be constructed of 18-gauge cold-rolled steel, welded into a uniform grille to direct the warmed air toward the floor. The front grille shall be surrounded by a decorative satin-finish aluminum "picture" frame.

THREE PIECE DESIGN: The heater shall be made up of a back box, a heater assembly and a front panel.

**Indeeco reserves the right to change specifications without prior notice.*

Models & Specifications:

ITEM INFORMATION	ELECTRICAL DATA					SHIP WT.
CATALOG NO.	VOLTS	PHASE	WATTS	AMPS	BTU/HR.	
933IW-3150-S	120	1	1500	12.5	5,118	25 lbs
933IW-4307-S*	277	1	3000/1500	10.8/5.4	10,236/5,118	25 lbs
933IW-4404-S*	240	1	4000/2000	16.7/8.3	13,649/6,824	25 lbs
	208	1	3000/1500	14.4/7.2	10,236/5,118	25 lbs
933IW-4407-S*	277	1	4000/2000	14.4/7.2	13,649/6,824	25 lbs
933IW-4408-S*	240	1	3000/1500	12.5/6.3	10,236/5,118	25 lbs
	208	1	4000/2000	19.2/9.6	13,649/6,824	25 lbs
933IW-4504-S	240	1	4800	20	16,378	25 lbs
	208	1	3600	17.3	12,284	25 lbs
933IW-4507-S	277	1	4800	17.3	16,378	25 lbs
	240	1	3600	15	12,284	25 lbs
933IW-4508-S	208	1	4800	23.1	16,378	25 lbs
933IW-3180-S	120	1	1800	15	6,142	25 lbs
933IW-4404-S	240	3	4000	9.6	13,649	25 lbs
933IW-4408-S	208	3	4000	11.1	13,649	25 lbs
933IW-45043-S	240	3	4800	11.6	16,378	25 lbs
933IW-45083-S	208	3	4800	13.3	16,378	25 lbs
933IW-4303-S	347	1	3000	8.6	10,236	25 lbs
933IW-4303-S	347	1	4800	13.8	16,378	25 lbs
933IW-4306-S	600	1	3000	5	10,236	25 lbs
933IW-4506-S	600	1	4800	8	16,378	25 lbs

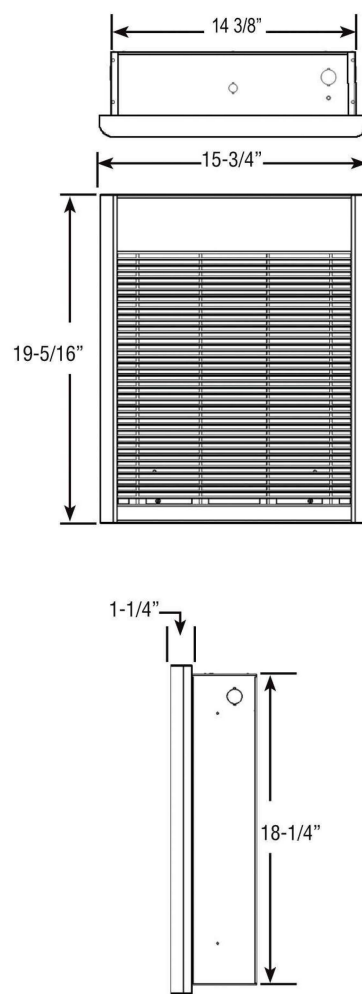
*Factory-wired for higher wattage, field-convertible to half wattage. Units not available to be wired with remote thermostats. Standard finish is Bronze; For White, replace S with W at the end of the catalog number

Optional Accessories:

CATALOG NO.	DESCRIPTION	SHIP WT*
WIK-WHPE-X*	Pneumatic/Electric switch. Factory set at 10 psig to "make" on pressure drop. May be field wired to "break" on pressure drop. Pressure set point adjustable to 30 psig. (field-installed)	2 lbs
WIK-WHR2-X (24V)*	Time delay relay 40-60 seconds to close when energized. Use 120V or 24V power supply from remote source (field-installed)	2 lbs
WIK-WHR12-X (120V)*		
WIF-SIF-S	1 in. deep surface mounting frame for semi-recessed installation, Bronze	2 lbs
WIF-S2F-S	2 in. deep surface mounting frame for semi-recessed installation, Bronze	2 lbs
WIF-SMF-S	Surface mounting frame for surface installations. Painted to match heater decor, 3 13/16 in. deep, Bronze	5 lbs
WIF-SMFL-W	Surface Mounting Frame, White	5 lbs
WIF-SMFL1-W	1 in. Semi-Recessed Frame, White	2 lbs
WIF-SMFL2-W	2 in. Semi-Recessed Frame, White	2 lbs
WIC-SFC-W	14-gauge security front cover, White	6 lbs

Note: *Will accommodate pneumatic/electric or low-voltage controls commonly used with computerized energy management systems Mounting Limitations: For wall mounting, do not install back box closer than 8 in. from floor or adjacent wall. Do not install heater behind towel rack, behind door, in floor, in closet, in ceiling or where air flow may be obstructed. All controls are concealed behind the front cover making them essentially tamper proof.

Dimensions and Clearances:



Corrosion-Resistant-Electric-Unit-Heaters