



Kraemer Consulting Engineers, P.L.L.C.
Mechanical & Electrical Engineers

Submittal Review

SUBMITTAL REVIEW NOTES

1. Correction or comments made on the submittals during review do not relieve the contractor from compliance and requirements of the sealed contract design drawings and specifications.
2. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents.
3. The contractor is responsible for confirming and correlating all quantities and dimensions; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.
4. The contractor is responsible for confirming the electrical requirements of each piece of equipment with the electrical drawings, Electrical Engineer, and Architect prior to ordering equipment.
5. The General Contractor and the Architect are also responsible for reviewing submittals prior to issuing to the field or ordering of equipment or materials.
6. Each trade is responsible for coordinating submittal information with the other trades as required.
7. Please review submittal thoroughly for additional stamps and notes on subsequent pages. A stamp on the front page does not constitute acceptance of entire submittal.
8. Submittals returned marked "REVIEWED - MAKE CORRECTIONS NOTED" do not require resubmittal provided that the Contractor agrees to comply with all exceptions noted in the submittal, and so states in a letter to the Architect. Provide final record submittal to the general contractor.
9. Submittals marked "REVISE AND RESUBMIT" requires a subsequent review based on the submittal comments.
10. Submittals marked "REJECTED" requires a subsequent review of an alternate equipment manufacturer. The submitted manufacturer is not acceptable based on the project contract documents and/or was not prior approved.
11. Final approval of the submittal for equipment procurement is the responsibility of the submitting contractor.
12. **Equipment proposed for early release by the contractor or Owner, prior to the issuance of signed and sealed set of construction documents, are to be considered "released at risk" with the understanding that possible changes to this equipment may be required based upon (1) city comments from the authority having jurisdiction, (2) information obtained from the Owner or (3) design changes based upon final coordination of the drawing set. The design consultant shall be held-harmless if additional costs or time delays are incurred due to these changes.**

Job Name:

KCE Job Number:

Submittal Number:

Submittal Name:

Architect:



Reviewed - No Exceptions Taken



Reviewed - Make Corrections Noted



Reviewed – For Record Only



Revise and Resubmit



Rejected

Reviewed By:

Date:

KRAEMER CONSULTING ENGINEERS, PLLC.
2050 W WHISPERING WIND DR, SUITE 158
PHOENIX, AZ 85085
(PH): 602-285-1669
(FX): 602-285-9450

Submittal Register #: 23-812-0001
Spec Section: 23-8126
Name: Split System Air Conditioning
Type: Product Data
Supplier/Manufacturer:
Notes:

Date: May 12, 2025
Required By: 2025-05-26
Status: Open

Receiver: KRAEMER CONSULTING ENG PLLC
Wesley Colgan

THE CONTENT WITHIN HAS BEEN EVALUATED AND CHECKED FOR GENERAL CONFORMANCE AND COMPLIANCE WITH CONTRACT DOCUMENTS

THIS REVIEW DOES NOT RELIEVE THE SUBCONTRACTOR, FABRICATOR, OR VENDOR OF RESPONSIBILITY FOR COMPLIANCE WITH CONTRACT DOCUMENTS

ALSTON CONSTRUCTION COMPANY

Project Name

41-2501



REVIEWED

REJECTED

REVISE

NOT REVIEWED

BY SStokes

DATE 5/12/2025

SUBMITTAL# 238126-0001 **SPEC** 23-8126

This review is only for general conformance of the project and general compliance. Corrections or comments made on these drawings during this review do not relieve Subcontractor from compliance with the requirements of the plans and specifications. Subcontractor is responsible for all dimensions and fabrication to be confirmed and correlated at the job site

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 5/7/2025

Return Request: 5/17/2025

Project: Amazon – LIT 3

Supplier: Airetech

Manufacturer: LG

Submittal: Split Systems Air Conditioning

Submittal Number: 23 81 26-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

SM Design & Consulting
855 Bloomfield Avenue, Suite 220
Glen Ridge, NJ 07028
973-259-9500

ENGINEER

Kreamer Consulting Eng, PLLC
2050 W. Whispering Wind Drive, Suite 158
Phoenix, AZ 85085
602-285-1669

GENERAL CONTRACTOR

Alston Construction
255 Schilling Blvd. Suite 110
Collierville, TN 38017
901-861-2000

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

*23 81 28 Ductless Split Systems is combined in this submittal

dpierce@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117



SUBMITTAL DATA

EQUIPMENT: LG Ductless Split System Air Conditioning

SPEC SECTION: 23 8128

TAGS: AC-GH-1 & 2/CU-GH-1 & 2, AC-FP/CU-FP
AC-A/CU-A, AC-1 thru 6/CU-1 thru 6

PROJECT: Amazon LIT3 - Port of Little Rock

LOCATION: Little Rock, Arkansas

ENGINEER:  Kraemer Consulting Engineers, P.L.L.C.
Mechanical & Electrical Engineers

CONTRACTOR: 
A R K A N S A S

DATE: 4/28/2025

SUBMITTED BY: Forrest Moseley
forrest@airetechcorp.com

Date: 04/28/2025

For: File Resubmit
 Approval Other

PO No.:

Architect:

GC:

Engr: Kraemer Consulting Engineers

Mech: Comfort Systems

Rep: Airetech Corporation
 (Company)

Forrest Moseley
 (Project Manager)

KSSAP301A

R32 Single-Zone Extended Piping Wall Mount

Outdoor Unit (ODU) - KUSAP301A, Indoor Unit (IDU) - KNSAP301A

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,070~30,000~32,000
SEER2	21.0
EER2	11.3

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	3,070~32,400~36,500
HSPF2	8.5
Max. Heating @ Indoor 70°F DB	
Outdoor 19°F DB / 17°F WB	27,500 (85%)
Outdoor 6°F DB / 5°F WB	24,000 (74%)
Outdoor 1°F DB / 0°F WB	21,500 (66%)
Outdoor -3°F DB / -4°F WB	20,030 (62%)

HSPF - Heating Seasonal Performance Factor
 Cooling Nominal Test Conditions:
 Indoor: 80°F DB / 67°F WB
 Outdoor: 95°F DB / 75°F WB

Heating Nominal Test Conditions:
 Indoor: 70°F DB / 60°F WB
 Outdoor: 47°F DB / 43°F WB

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
MOP (A)	30.0
MCA (A)	23.0
Cooling Rated Amps (A)	12.00
Heating Rated Amps (A)	11.80
Compressor (A)	15.1
Fan Motor (IDU + ODU) (A)	0.5 + 0.4
Cooling Power Input (kW)	
(Min~Rated~Max @95°F) (kW)	0.500~2.654~3.600
Heating Power Input (kW)	
(Min~Rated~Max @47°F) (kW)	0.660~2.592~4.100

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

Liquid Line (in., O.D.)	3/8 Flare
Vapor Line (in., O.D.)	5/8 Flare
Additional Refrigerant (oz./ft.)	0.32
Min. / Max. Pipe Length (ft.) ²	9.8 / 164.0
Piping Length (no add'l refig., ft.)	24.6
Max. Elevation (ft.)	98.4

Features:

- 24-Hour On / Off Timer
- 4-Way Auto Swing
- Auto Restart / Auto Changeover
- Jet Cool / Jet Heat
- Inverter (Variable Speed Compressor)
- Smart Diagnosis
- Washable Filter
- Self-Cleaning Indoor Coil
- Built-in Base Pan Heater
- Built-in Wi-Fi via Smart ThinQ app
- Low ambient cooling down to 14°F (0°F with Wind Baffle Kit)

Included Accessories:

- Wireless Remote Controller — AKB76044208

Optional Accessories:

- Single-Port Shutoff Valve - PRHPZ010A
- Low Ambient Wind Baffle (Cooling operation to 0°F) - ZLABGP04A

Controller Options:

- MultiSITE™ CRC® Controllers
 - Simple Remote Controller
 - Standard III Remote Controllers
 - Remote Temperature Button Sensor
 - Dry Contacts
 - PI-485
 - AC Smart 5 Central Controller
 - MultiSITE Communication Mgr.
 - LonWorks® Gateway
 - ACP 5 BACnet® Gateway
- BACnet® is a registered trademark of ASHRAE. LonWorks is a registered trademark of Echelon Corp.

For a complete list of available accessories, contact your LG representative.

For continual product development, LG reserves the right to change specifications without notice.

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Operating Range:

Outdoor Unit:

Cooling (°F DB)	14 ~ 118
Heating (°F WB)	-4 ~ +65

Indoor Unit:

Cooling (°F WB)	53 ~ 75
Heating (°F DB)	60 ~ 86

System Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	4.406
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	55 / 58
IDU Sound Pressure Cooling (H/M/L/Sleep) (±1 dB[A]) ³	51 / 47 / 43 / 33
Heating (H/M/L) (±1 dB[A]) ³	51 / 47 / 43
ODU Net / Shipping Weight (lbs.)	147.9 / 160.3
IDU Net / Shipping Weight (lbs.)	40.8 / 48.9
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cool/Heat)	6 / 6 / 6
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max. Air Flow Rate (CFM)	2295
IDU Air Flow Cooling, Max/H/M/L (CFM)	1,095 / 883 / 742 / 601
Heating, Max/H/M/L (CFM)	1.166 / 954 / 813 / 671
Dehumidification (pts./hr.)	5.49

Notes:

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. All communication / connection (power) cable from the outdoor unit to the indoor unit is field supplied and must be a minimum of four-conductor, 14 AWG, stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only), and must comply with applicable local and national codes.
5. See Engineering Manual for sensible and latent capacities.
6. Power wiring cable size must comply with the applicable local and national code.
7. The indoor unit comes with a dry helium charge.
8. This data is rated 0 ft. above sea level, with 24.6 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
9. Must follow installation instructions in the applicable LG installation manual.



KSSAP301A

R32 Single-Zone Extended Piping Wall Mount

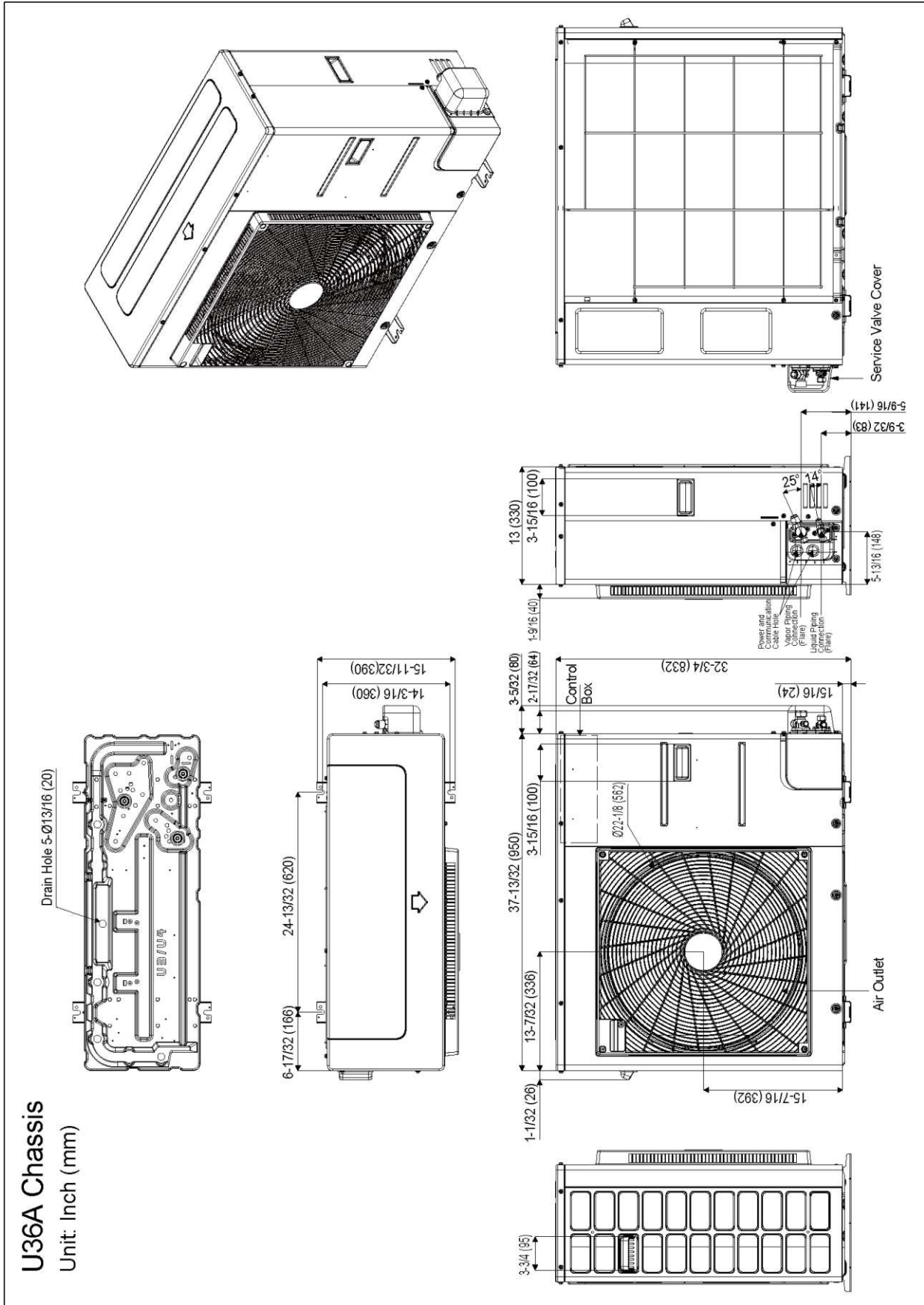
Outdoor Unit (ODU) - KUSAP301A, Indoor Unit (IDU) - KNSAP301A



Tag No.: AC-GH-1/CU-GH-1 & AC-GH-2/CU-GH-2

Date: 04/28/2025

PO No.:



Date: 04/28/2025

For: File Resubmit
 Approval Other

PO No.:

Architect:

GC:

Engr: Kraemer Consulting Engineers

Mech: Comfort Systems

Rep: Airetech Corporation
 (Company)

Forrest Moseley
 (Project Manager)

KSSAP361A

R32 Single-Zone Extended Piping Wall Mount

Outdoor Unit (ODU) - KUSAP361A, Indoor Unit (IDU) - KNSAP361A

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,070~33,000~34,000
SEER2	20.0
EER2	10

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	3,070~35,200~38,900
HSPF2	8.5
Max. Heating @ Indoor 70°F DB	
Outdoor 19°F DB / 17°F WB	30,000 (85%)
Outdoor 6°F DB / 5°F WB	26,000 (74%)
Outdoor 1°F DB / 0°F WB	23,210 (66%)
Outdoor -3°F DB / -4°F WB	21,620 (61%)

HSPF - Heating Seasonal Performance Factor
 Cooling Nominal Test Conditions:
 Indoor: 80°F DB / 67°F WB
 Outdoor: 95°F DB / 75°F WB

Heating Nominal Test Conditions:
 Indoor: 70°F DB / 60°F WB
 Outdoor: 47°F DB / 43°F WB

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
MOP (A)	30.0
MCA (A)	23.0
Cooling Rated Amps (A)	15.00
Heating Rated Amps (A)	13.20
Compressor (A)	15.1
Fan Motor (IDU + ODU) (A)	0.5 + 0.4
Cooling Power Input (kW)	
(Min~Rated~Max @95°F) (kW)	0.500~3.300~4.020
Heating Power Input (kW)	
(Min~Rated~Max @47°F) (kW)	0.660~2.933~4.370

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

Liquid Line (in., O.D.)	3/8 Flare
Vapor Line (in., O.D.)	5/8 Flare
Additional Refrigerant (oz./ft.)	0.32
Min. / Max. Pipe Length (ft.) ²	9.8 / 164.0
Piping Length (no add'l refig., ft.)	24.6
Max. Elevation (ft.)	98.4

Features:

- 24-Hour On / Off Timer
- 4-Way Auto Swing
- Auto Restart / Auto Changeover
- Jet Cool / Jet Heat
- Inverter (Variable Speed Compressor)
- Smart Diagnosis
- Washable Filter
- Self-Cleaning Indoor Coil
- Built-in Base Pan Heater
- Built-in Wi-Fi via Smart ThinQ app
- Low ambient cooling down to 14°F (0°F with Wind Baffle Kit)

Included Accessories:

- Wireless Remote Controller — AKB76044208

Optional Accessories:

- Single-Port Shutoff Valve - PRHPZ010A
- Low Ambient Wind Baffle (Cooling operation to 0°F) - ZLABGP04A

Controller Options:

- MultiSITE™ CRC® Controllers
 - Simple Remote Controller
 - Standard III Remote Controllers
 - Remote Temperature Button Sensor
 - Dry Contacts
 - PI-485
 - AC Smart 5 Central Controller
 - MultiSITE Communication Mgr.
 - LonWorks® Gateway
 - ACP 5 BACnet® Gateway
- BACnet® is a registered trademark of ASHRAE. LonWorks is a registered trademark of Echelon Corp.

For a complete list of available accessories, contact your LG representative.

For continual product development, LG reserves the right to change specifications without notice.

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Operating Range:

Outdoor Unit:

Cooling (°F DB)	14 ~ 118
Heating (°F WB)	-4 ~ +65

Indoor Unit:

Cooling (°F WB)	53 ~ 75
Heating (°F DB)	60 ~ 86

System Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	4.406
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	55 / 58
IDU Sound Pressure Cooling (H/M/L/Sleep) (±1 dB[A]) ³	51 / 47 / 43 / 33
Heating (H/M/L) (±1 dB[A]) ³	51 / 47 / 43
ODU Net / Shipping Weight (lbs.)	147.9 / 160.3
IDU Net / Shipping Weight (lbs.)	40.8 / 48.9
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cool/Heat)	6 / 6 / 6
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max. Air Flow Rate (CFM)	2295
IDU Air Flow Cooling, Max/H/M/L (CFM)	1,095 / 883 / 742 / 601
Heating, Max/H/M/L (CFM)	1.166 / 954 / 813 / 671
Dehumidification (pts./hr.)	5.49

Notes:

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. All communication / connection (power) cable from the outdoor unit to the indoor unit is field supplied and must be a minimum of four-conductor, 14 AWG, stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only), and must comply with applicable local and national codes.
5. See Engineering Manual for sensible and latent capacities.
6. Power wiring cable size must comply with the applicable local and national code.
7. The indoor unit comes with a dry helium charge.
8. This data is rated 0 ft. above sea level, with 24.6 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
9. Must follow installation instructions in the applicable LG installation manual.



KSSAP361A

R32 Single-Zone Extended Piping Wall Mount

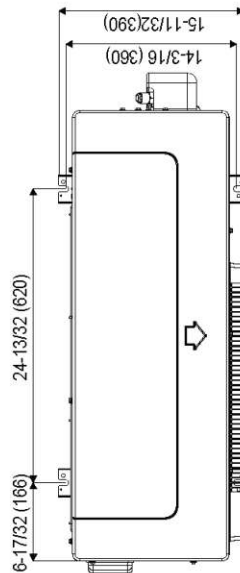
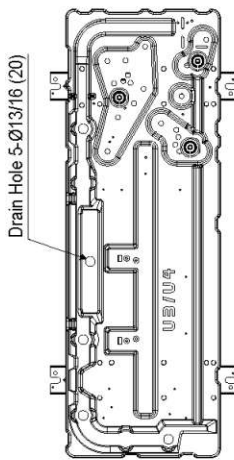
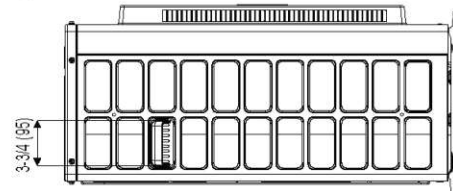
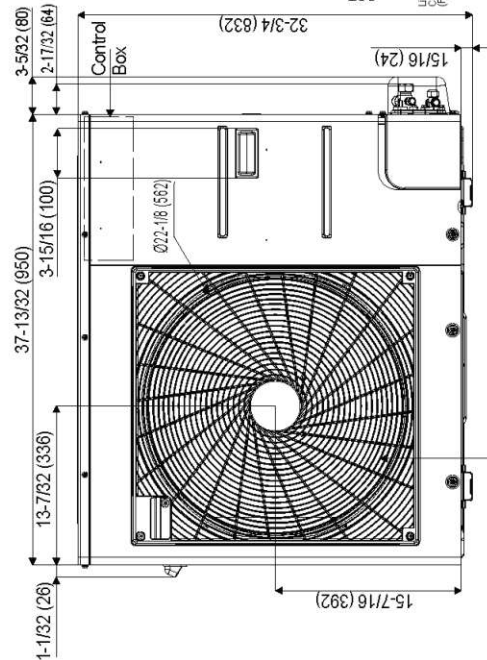
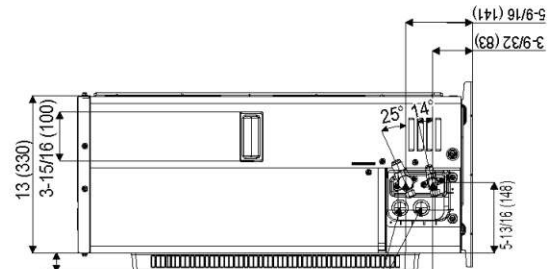
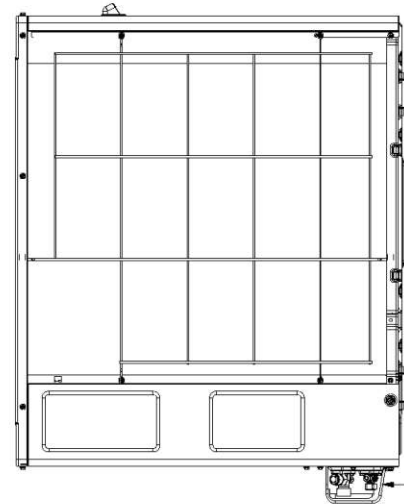
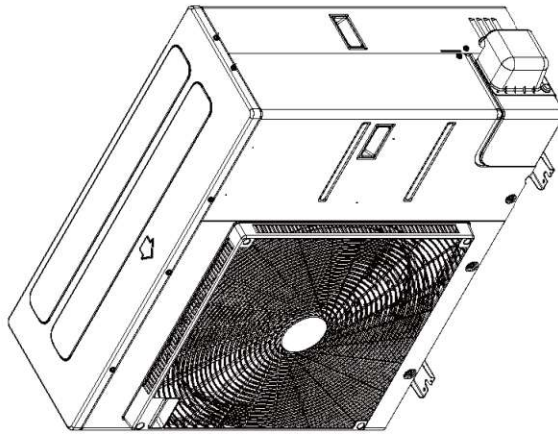
Outdoor Unit (ODU) - KUSAP361A, Indoor Unit (IDU) - KNSAP361A



Tag No.: AC-FP/CU-FP

Date: 04/28/2025

PO No.:



U36A Chassis
Unit: Inch (mm)

Job Name/Location: Amazon LIT3

Tag No.: Qty 8

Date: 04/28/2025

For: File Resubmit
 Approval Other _____

PO No.:

Architect:

GC:

Engr: Kraemer Consulting Engineers

Mech: Comfort Systems

Rep: Airetech Corporation
(Company)

Forrest Moseley
(Project Manager)



KSUAB181A
R32 Single Zone High Efficiency Wall Mounted
 Outdoor Unit (ODU) - KUSAB181A, Indoor Unit (IDU) - KNUAB181A

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max, Btu/h)	3,070 ~ 18,000 ~ 24,210
SEER2	23.0
EER2	13.00

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max, Btu/h)	3,070 ~ 21,600 ~ 30,020
HSPF2	10.0
Max. Heating @ Indoor 70°F DB (Btu/h)	18,600 (86%)
Outdoor 17°F WB	15,120 (70%)
Outdoor 5°F WB	12,160 (56%)
Outdoor -4°F WB	

HSPF - Heating Seasonal Performance Factor Heating Nominal Test Conditions:
 Cooling Nominal Test Conditions: Indoor: 70°F DB / 60°F WB
 Indoor: 80°F DB / 67°F WB Outdoor: 47°F DB / 43°F WB
 Outdoor: 95°F DB / 75°F WB

Electrical:

Power Supply (V/Hz/Ø)	208-230 / 60 / 1
MOP (A)	30
MCA (A)	19
Cooling / Heating Rated Amps (A)	15.1
Compressor (A)	14.3
Fan Motor (IDU + ODU) (A)	0.4 + 0.78
Cooling Power Input (Min~Rated~Max, kW)	0.30 ~ 1.38 ~ 2.65
Heating Power Input (Min~Rated~Max, kW)	0.66 ~ 1.83 ~ 3.30
Locked Rotor Amps (A)	17.0

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Piping:

Installed Liquid Pipe (in., O.D.)	3/8 Flare
Installed Vapor Pipe (in., O.D.)	5/8 Flare
IDU Liquid Connection (in., O.D.)	3/8 Flare
IDU Vapor Connection (in., O.D.)	5/8 Flare
Additional Refrigerant (oz./ft.)	0.32
Min. / Max. Pipe Length (ft.) ²	9.8 / 114.8
Piping Length (no add'l refrig., ft.)	24.6
Max. Elevation (ft.)	49.2

Features:

- Inverter (Variable Speed Compressor)
- 24-Hour on/off timer
- 4-Way auto swing
- Sleep Mode
- Jet Cool/Jet Heat
- Auto Restart
- Auto Changeover
- Built-in Drain pan heater
- Built-in Wi-Fi via ThinQ app
- Smart Diagnosis
- 3M Micro Filter
- IDU compatible with Multi F ODU's
- Low ambient cooling down to 14°F (0°F with Wind Baffle Kit)
- Self-cleaning indoor coil
- IDU R32 leak detection sensor

Included Accessories:

- Wireless Remote Controller — AKB76044208

Optional Accessories:

- PI-485 - PMNFP14A1
- Single-Port Shutoff Valve - PRHPZ010A
- Low Ambient Wind Baffle (Cooling to 0°F) - ZLABGP04A

Controller Options:

- MultiSITE™ CRC* Controllers
- Simple Remote Controllers
- Standard III Remote Controllers
- Remote Temp. Button Sensor
- Dry Contacts
- AC Smart 5 Central Controller
- LonWorks® Gateway
- MultiSITE Comm. Mgr.
- AC Smart BACnet® Gateway

For a complete list of available accessories, contact your LG representative.
 For continual product development, LG reserves the right to change specifications without notice.
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Operating Range:

Outdoor Unit:

Cooling (°F DB)	14 ~ 118
Heating (°F WB)	-4 ~ +65

Indoor Unit:

Cooling (°F WB)	53 ~ 75
Heating (°F DB)	60 ~ 86

System Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	3.20
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	55 / 55
IDU Sound Pressure	
Cooling (H/M/L/SL) (±1 dB[A]) ³	47 / 42 / 37 / 31
Heating (H/M/L) (±1 dB[A]) ³	47 / 42 / 37
ODU Net / Shipping Weight (lbs.)	127.9 / 145.5
IDU Net / Shipping Weight (lbs.)	26.0 / 31.8
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cool/Heat)	6 / 6 / 6
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled / Direct
Maximum ODU Air Volume (CFM)	2,119
IDU Air Flow	
Cooling, Max/H/M/L (CFM)	706 / 530 / 477 / 371
Heating, Max/H/M/L (CFM)	706 / 547 / 494 / 371
Dehumidification (pts./hr.)	5.5

Notes:

- Acceptable operating voltage: 187V-253V.
- Piping lengths are equivalent.
- Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
- All power supply wiring to the outdoor unit is field supplied, solid or stranded. The power wiring and the communication wiring from the outdoor unit to the indoor unit is field supplied and must be stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only). All wiring must comply with applicable local and national codes.
 - a. Power Supply Wiring to ODU: (No. x AWG): 3 x 14 for 9/12k, 3 x 12 for 18k units.
 - b. Power Wiring / Communication Wiring from Outdoor Unit to Indoor Unit: (No. x AWG) 3 x 14 / 2 x 18.
- See Engineering Manual for sensible and latent capacities.
- Power wiring cable size must comply with the applicable local and national code.
- The indoor unit comes with a dry helium charge.
- This data is rated 0 ft. above sea level, with 24.6 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
- Must follow installation instructions in the applicable LG installation manual.
- Multi-compatible 18k IDUs include socket adapters for refrigerant pipe connections with single zone systems.

BACnet® is a registered trademark of ASHRAE. LonWorks® is a trademark of Echelon Corporation.



Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.)

KSUAB181A

R32 Single Zone High Efficiency Wall Mounted

Outdoor Unit (ODU) - KUSAB181A, Indoor Unit (IDU) - KNUAB181A

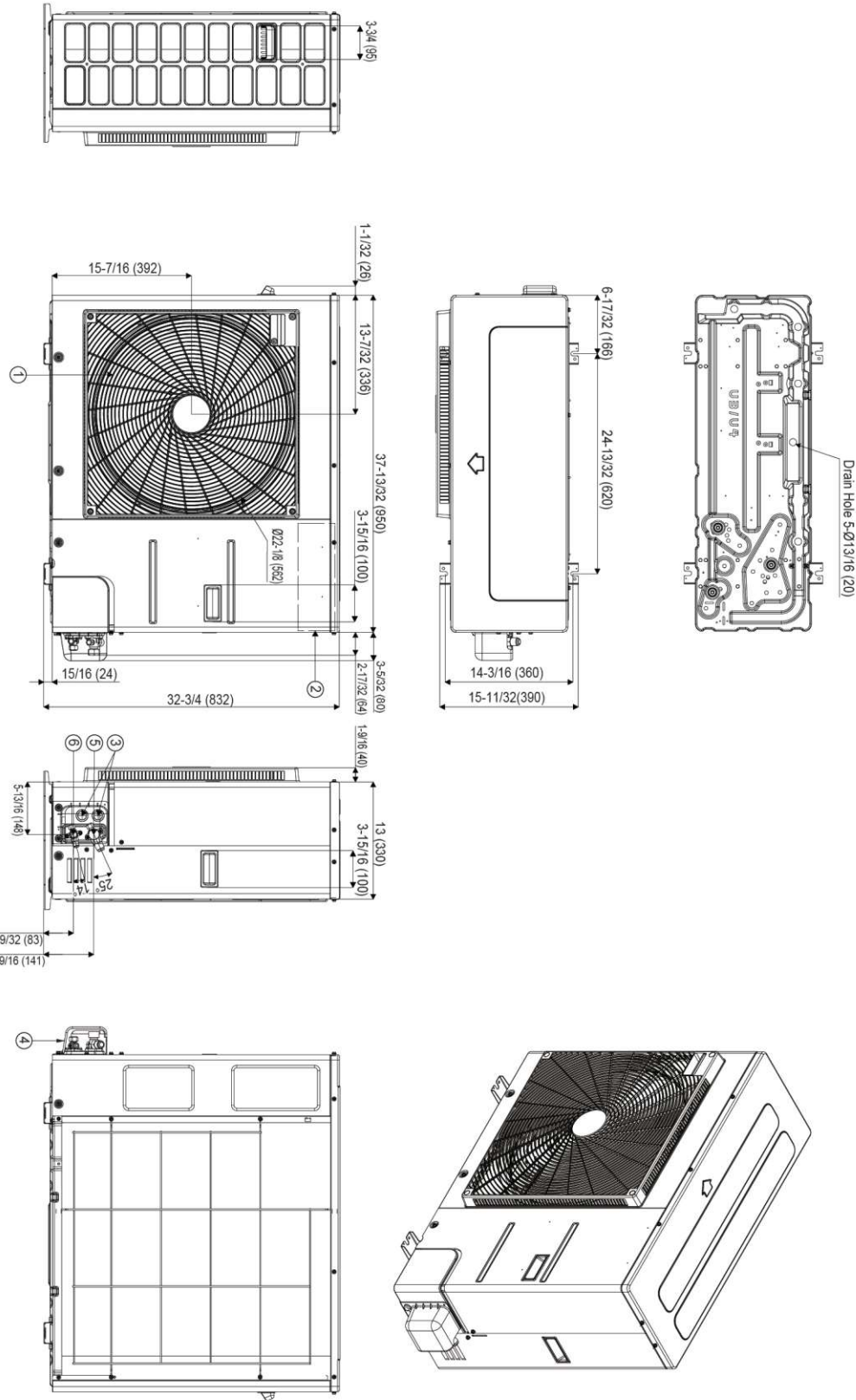


Tag No.: Qty 8

Date: 04/28/2025

PO No.:

Unit : inch (mm)



No	Name	Description
6	Liquid Pipe Connection	Flare Joint
5	Gas Pipe Connection	Flare Joint
4	Service Valve Cover	
3	Power and Communication Cable Hole	
2	Control Box	
1	Air Outlet	

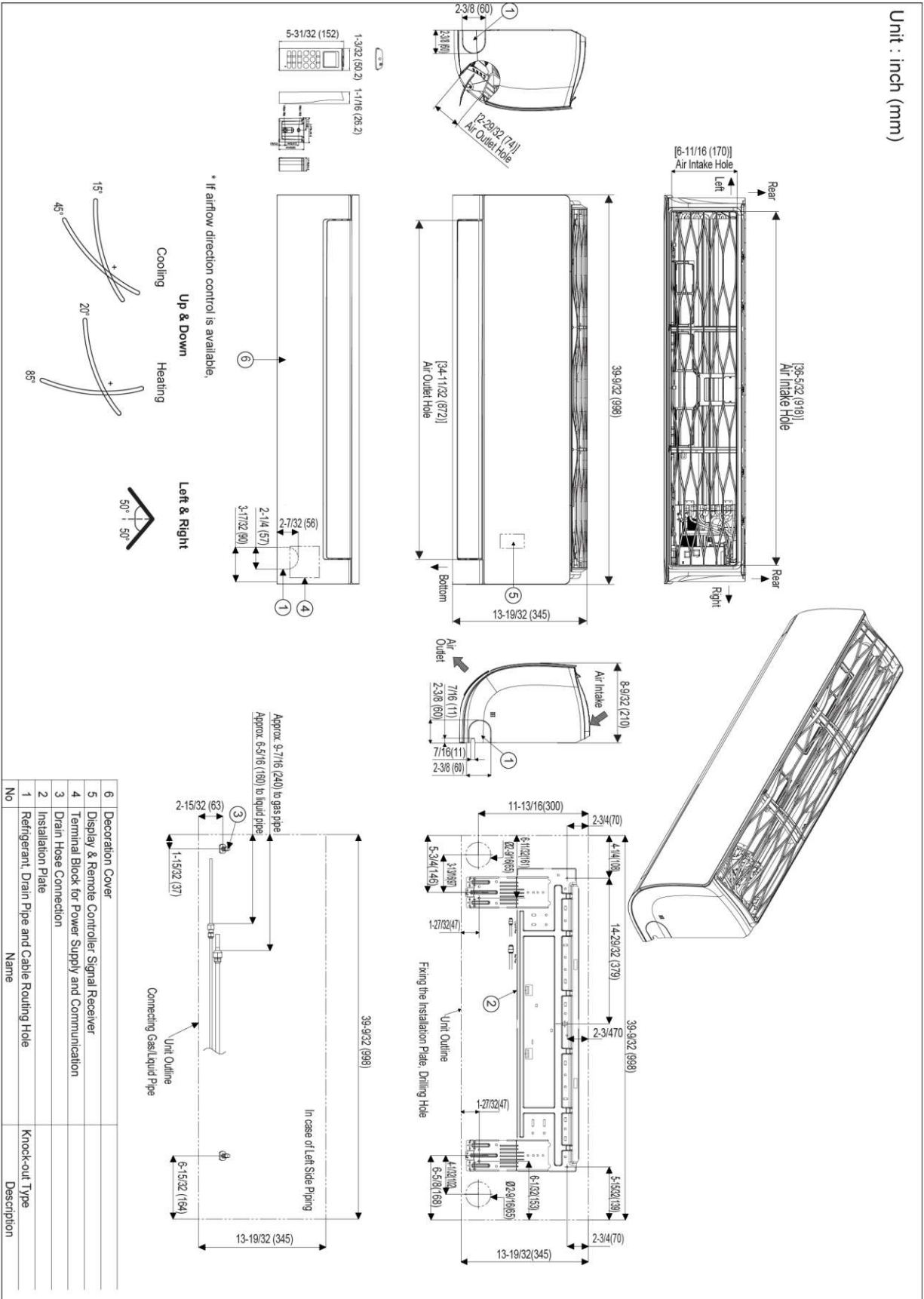
KSUAB181A
R32 Single Zone High Efficiency Wall Mounted
 Outdoor Unit (ODU) - KUSAB181A, Indoor Unit (IDU) - KNUAB181A



Tag No.: Qty 8

Date: 04/28/2025

PO No.:



Date: 04/28/2025

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr: Kraemer Consulting Engineers

Mech: Comfort Systems

Rep: Airetech Corporation

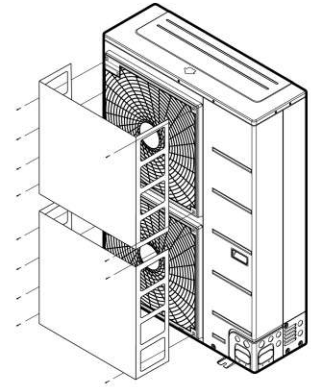
Forrest Moseley

(Company)

(Project Manager)

ZLABGP04A

Low Ambient Wind Baffle Kit



Unit Data:

Net Unit Weight (lbs)	5
Shipping Weight (lbs)	8
Dimensions (in)	23-5/8 x 23-5/8 x 7-15/16

Fitting Properties:

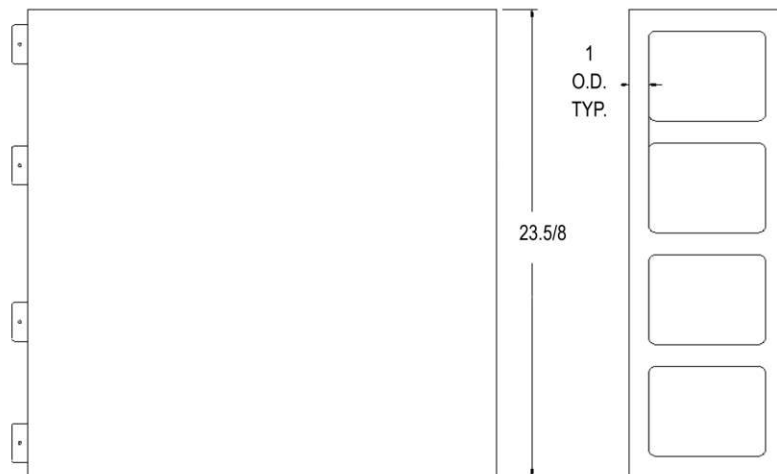
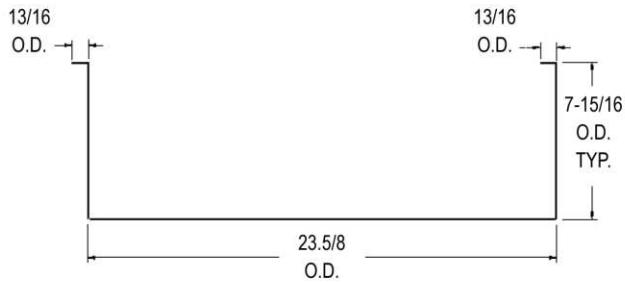
Color	Soft Dove Grey
Material	20 GA Paint Grip

Compatible Outdoor Units:

LSU243HLV3	LUU240HHV	LUU488HV*
LSU303HLV3	LMU180HHV	LUU360HHV*
LSU363HLV3	LMU240HHV	LUU420HHV*
LAU150HYV3	LMU300HHV	LUU480HHV*
LAU180HYV3	LMU30CHV	LMU360HHV*
LAU240HYV3	LMU36CHV	LMU420HHV*
LUU189HV	LUU369HV*	LMU480HV*
LUU249HV	LUU429HV*	LMU540HV*
LUU180HHV	LUU428HV*	LMU600HV*
	Multi V™ S*	*Requires x2 ZLABGP04A

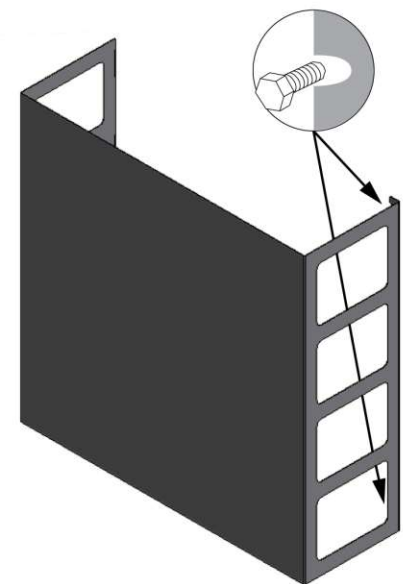
Standard Features:

- Allows operation down to 0°F in cooling mode
- Compatible outdoor units are equipped with necessary fan speed control
- 4 zinc plated pan head phillips screws #8 x 1/2"



Unit = inch

Note: All dimensions are rounded up to the nearest fraction.



Date: 04/28/2025

For: File Resubmit
 Approval Other

PO No.:

Architect:

GC:

Engr: Kraemer Consulting Engineers

Mech: Comfort Systems

Rep: Airetech Corporation
 (Company)

Forrest Moseley
 (Project Manager)

PREMTBVC2
 MultiSITE CRC2 Remote Controller



Electrical:

Power Supply **12VDC power from indoor unit**

Surrounding Conditions:

Temperature	
Operating	32-122 °F
Storage	-22-122 °F
Humidity	
Operating	5-95% RH (non-condensing)
Storage	0-95% RH (non-condensing)

Features:

- Customizable color digital touch screen interface with Multilanguage support
- BACnet® Wireless IP (optional)
- ZigBee® Pro Wireless capability (optional)
- 2 universal inputs, 1 universal output, and 1 digital output
- Role based configuration (password protected)
- Lua scripting
- Function code settings
- Function code search tool
- Date and time display
- Room temperature display (-9 °F ~ +9 °F adjustable)
- Humidity display (-15% ~ +15% adjustable)
- Operation - On/Off
- Mode - Auto/Cool/Dry/Heat/Fan Only
- Occupied cooling and heating temperature setpoints
- Unoccupied cooling and heating temperature setpoints
- 7 day scheduling with mode
- Fan speed - Auto/Low/Med/High/Power
- Discharge vanes - Auto/Swing/Fixed
- Static pressure installer setting

Optional Accessories (sold separately):

- PZCWRCG3 - Group Control Cable Kit
- PZCWRC1 - Extension Cable (for IDUs without terminal blocks)
- ZVRCZPWC2 - ZigBee® Pro Wireless Module³
- ZVRCZDWC1 - Wireless Door Window Contact³
- ZVRCZMTH1 - Wireless Ceiling Mounted Occupancy, Temperature and Humidity Sensor³
- SEDCO2G5045 - Wireless CO2, Temperature & Humidity Sensor³
- ZVRCZTRH1 - Wireless Temperature & Humidity Sensor³
- ZVRCZWLS1- Wireless Water Leak Sensor³
- VCM8002V504 - Wi-Fi Module (BACnet Wireless IP)

Notes:

1. Available functions/features may differ based on connected system.
2. Communication cable can be extended to a maximum of 164 feet.
3. Up to 20 ZigBee® sensors can be connected to the MultiSITE CRC2 Remote Controller.
4. Must follow installation instructions in the applicable LG installation manual.

Connectivity:

LG Communications 1 Channel/RS-485 V-Net
 BACnet® MS/TP
 BACnet® wireless IP (optional)
 Zigbee® Pro wireless mesh network (P) (optional)

Communications Cabling Specifications (V-Net):

Type	3 conductor, stranded, twisted, unshielded
Size	AWG 22-3
Length ²	up to 164 ft

AWG - American Wire Gage

Unit Data:

Dimensions	4.72" H x 3.39" W x 1.06" D
Maximum Number of Indoor Units (per controller)	16

Input / Output Specifications:

Input (Universal inputs T16, T17)

- Temperature: Type 10K Thermistor
- Digital: Dry-contact closure
- Analog: Modulating 0-10Vdc.

Output (Universal output T9)

- Digital: Electric relay closure rated at 12Vac or 12Vdc +/- 15%, 1.0A, 3.0 A inrush
- Analog: 0-10 Vdc @ 5mA max into a 2KΩ resistive load
- Output (digital output T8)
- Digital: Electric relay closure rated at 12Vac or 12Vdc +/- 15%, 1.0A, 3.0 A inrush

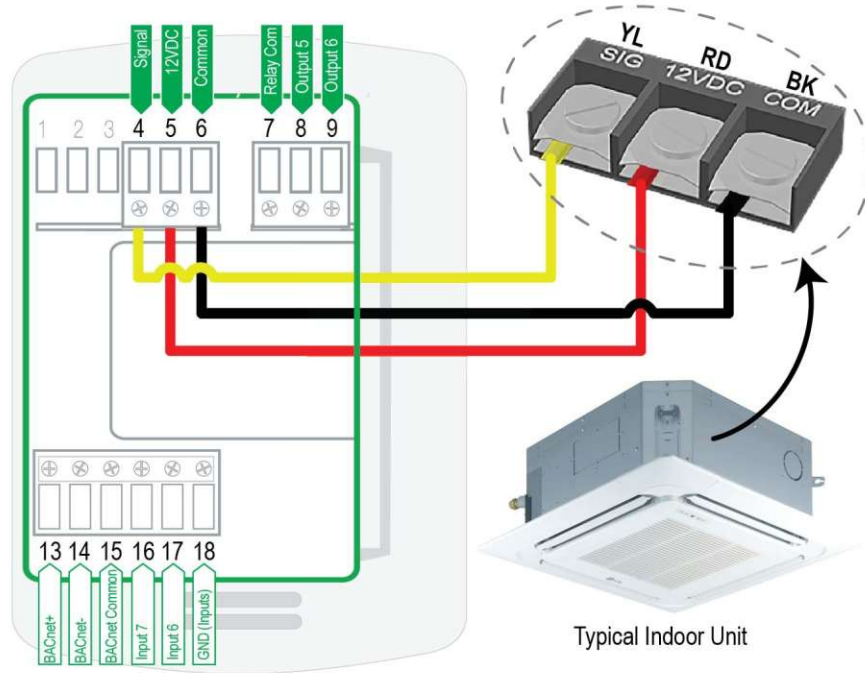
PREMTBVC2
MultiSITE CRC2 Remote Controller



Tag #: Qty 11 - All Units

Date: 04/28/2025

PO No.:



Terminal	Function
Terminal 1	Not used
Terminal 2	Not used
Terminal 3	Not used
Terminal 4	Signal Wire
Terminal 5	12VDC
Terminal 6	Common
Terminal 7	Relay Common Outputs 5 and 6
Terminal 8	Binary Output 5
Terminal 9	Universal Output
Terminal 13	BACnet +
Terminal 14	BACnet -
Terminal 15	BACnet MS/TP Common
Terminal 16	Universal Input 7
Terminal 17	Universal Input 6
Terminal 18	Input/Output Ground

PREMTBVC2
MultiSITE CRC2 Remote Controller

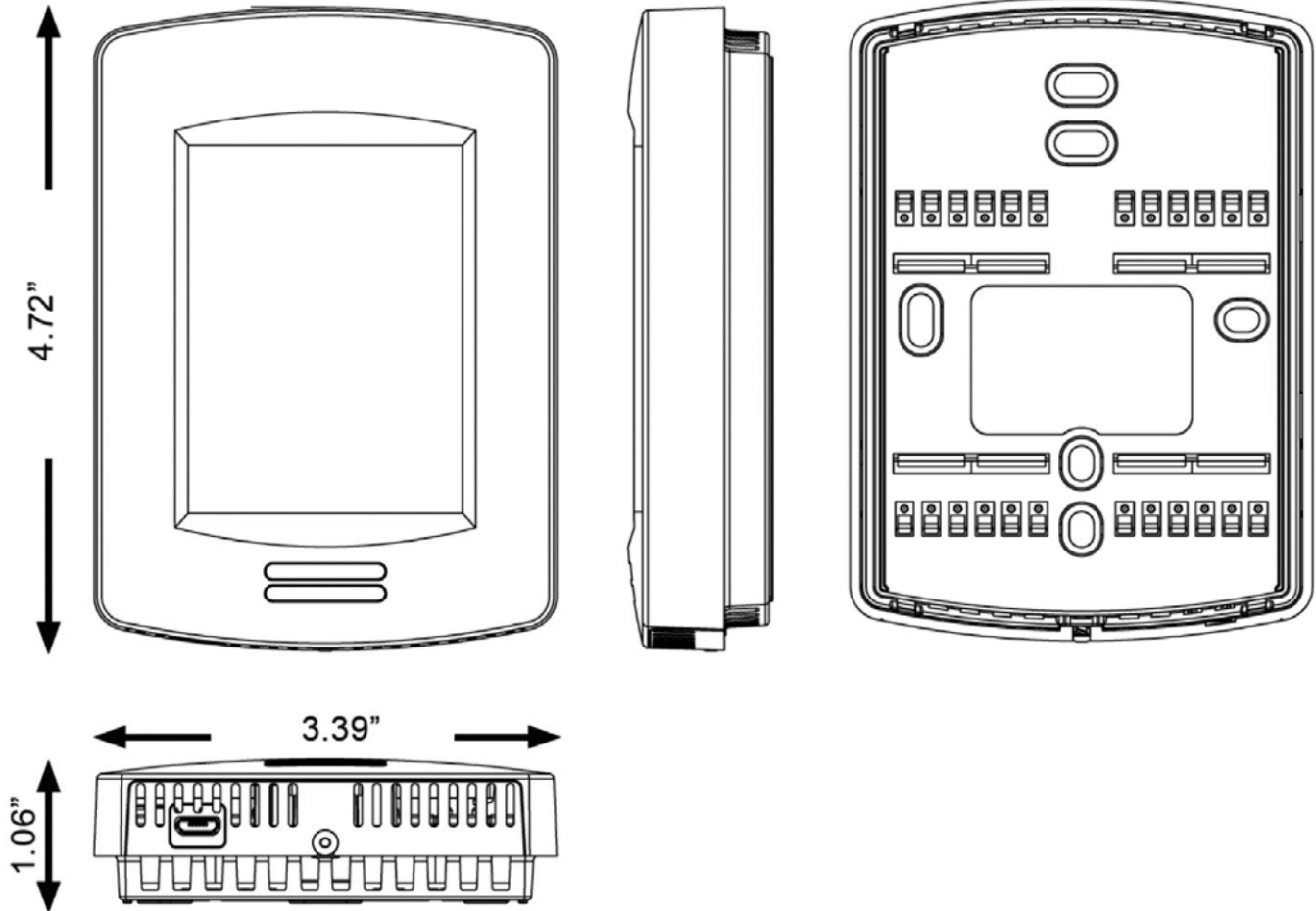


Tag #: Qty 11 - All Units

Date: 04/28/2025

PO No.:

Dimensions: 4.72"H x 3.39"W x 1.06"D



PREMTBVC2

MultiSITE CRC2 Remote Controller



Tag #: Qty 11 - All Units

Date: 04/28/2025

PO No.:



Note: Long-press of the Fan Speed button when in cooling mode triggers Power Cooling mode. If in Power Cooling mode, segments surrounding fan icon turn purple and the text changes from “Fan” to “Power Cool.” This mode lasts for 30 minutes with a setpoint of 64°F and then reverts back to the previous fan speed and setpoint.

Date: 04/28/2025	For: <input type="checkbox"/> File <input type="checkbox"/> Resubmit
PO No.:	<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Other
Architect:	GC:
Engr: Kraemer Consulting Engineers	Mech: Comfort Systems
Rep: Airetech Corporation (Company)	Forrest Moseley (Project Manager)



PMNFP14A1
PI485 for Outdoor Unit



Electrical:

Power Supply	220 VAC (from outdoor unit) 20" Wiring Harness (included)
--------------	--

Surrounding Conditions:

Operating Temperature	-4 - 176 °F
Storage Temperature	-4 - 176 °F
Humidity	0-98% (non-condensing)

Unit Data:

Dimensions	5-3/16" W x 3-5/16" H x 1-3/8" D
Maximum Number of Indoor Units:	64
Maximum Number of Outdoor Units:	1

Standard Features

- PI-485 is a gateway that provides communication between LG Outdoor Units and the LG Central Controllers such as AC Smart IV, ACP IV BACnet, ACP LONworks, etc.

Notes:

- Please contact your LG sales representative for a complete list of compatible DFS units or visit mylghvac.com to view the complete compatibility list.
- Must follow installation instructions in the applicable LG installation manual.

Connectivity:

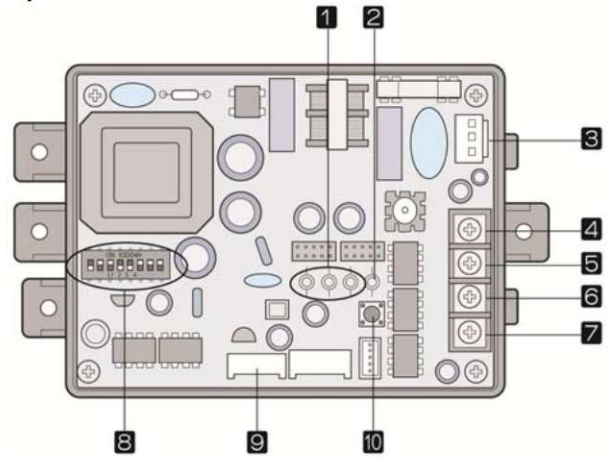
LG Communications	1 Channel/RS-485 V-Net 32" DFS Wiring Harness (included)
Compatible Models ¹	DFS Single Zone, Multi F, and Multi F MAX

Communications Cabling Specifications (V-Net):

Type	2-conductor, stranded, shielded copper cable/PVC or vinyl jacket
Size	AWG 18-2
Maximum Length	3,280 ft (end-to-end)

AWG - American Wire Gage

Description:



- | | |
|--|----------------------------------|
| 1 LED01G,02G,03G: Communication Status LED | 6 BUS_A: RS-485 (+) Terminal |
| 2 LED1: RS-485 Status LED | 7 BUS_B: RS-485 (-) Terminal |
| 3 CN_PWR: AC 220V Connector | 8 DIP Switch: Product Selection |
| 4 +10V: DC 10V Terminal | 9 CN_OUT: Outdoor Unit Connector |
| 5 GND: Ground | 10 Reset Switch: PI485 (M) Reset |

PMNFP14A1

PI485 for Outdoor Unit



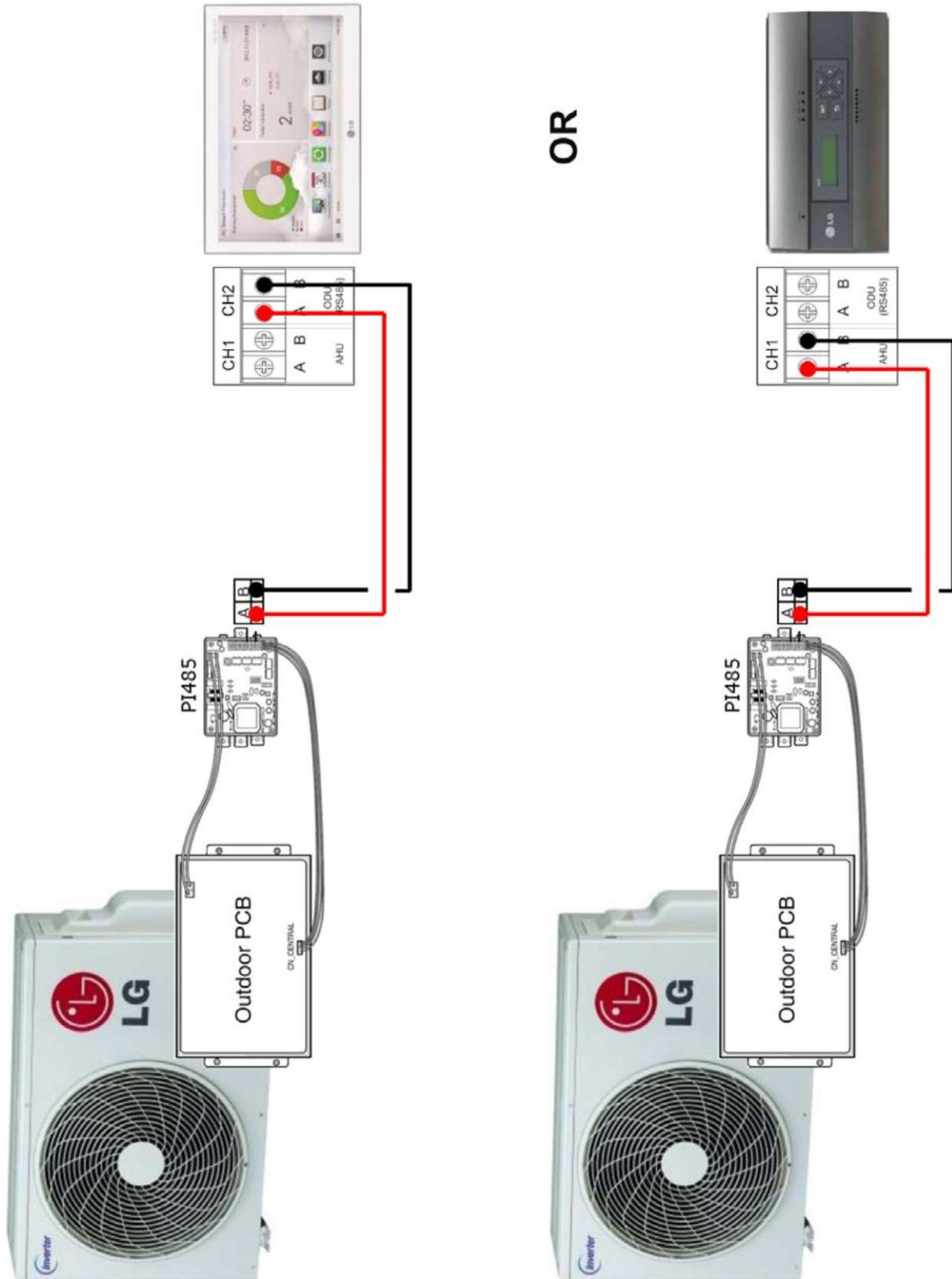
LG

Life's Good

Tag #: Qty 11 - All Units

Date: 04/28/2025

PO No.:



OR

Date: 04/28/2025

For: File Resubmit
 Approval Other_____

PO No.:

Architect:

GC:

Engr: Kraemer Consulting Engineers

Mech: Comfort Systems

Rep: Airetech Corporation
 (Company)

Forrest Moseley
 (Project Manager)

PACP5A000
ACP 5 Controller
 Central Control/Integration Solutions



Electrical:

Power Consumption	22 VA
Power Supply	24 VAC 60 Hz

40 VA transformer recommended.

Surrounding Conditions:

Operating Temperature	-4 to 140°F
Storage Temperature	-4 to 176°F
Humidity	0 to 95% (non-condensing)

Unit Data:

Dimensions	10-11/16"W x 6-3/16"H x 2-5/8"D
Maximum Number of Devices	256 (64 per V-Net*)
Maximum Number of ODU's	64 (16 per V-Net)

*When combined with AC Smart5 or PDI, 128 max. devices per V-Net.

Standard Features:

- Integrates Multi V and select Mini and Multi Split systems with third party building management systems
- HTML5 supported Graphical User Interface
- Removable micro-SD card with 8GB flash total storage for data backup
- Configurable Home Screen
- Exportable Trending Logs for Temperature, Event and Operation
- Supports registration as a foreign device
- 20 x 4 character LCD
- Indoor Unit Control/Monitoring by Groups/Indoor Units
- Ten Digital Input and two Digital Outputs for Device Interlocking

Basic Unit Function:

- Multiple Language Selections
- Operation – On/Off
- Mode – Auto/Cool/Dry/Heat/Fan Only
- Setpoint
- Fan Speed – Auto/Low/Med/High
- Louver Swing

Advanced Unit Function:

- Two Setpoint Auto-changeover
- Two Setpoint Setback
- 200 Programmable Schedule Events with control of Setpoint, On/Off, Mode, Fan Speed, Controller Lock, and Louver Swing
- Temperature Setpoint Range Limit
- Remote Controller Lock (All, Setpoint, Mode, Fan Speed)
- Run Time Limit (Unoccupied Override)
- Software Device Interlocking
- Peak/Demand Control
- Visual Floor plan Navigation
- Power Distribution Indicator (PDI) (optional)

Notes:

Must follow installation instructions in the applicable LG installation manual. Available functions/features may differ based on the connected system.

For a complete list of available accessories, contact your LG representative. For continual product development, LG reserves the right to change specifications without notice. © LG Electronics U.S.A., Inc., Englewood Cliffs, NJ. All rights reserved. "LG Life's Good" is a registered trademark of LG Corp. /www.lghvac.com

Connectivity:

LG Communications	4 Channel/RS-485 V-Net
BMS Communications	BACnet/IP
Ethernet	10/100 BASE-T

Communications Cabling Specifications (V-Net):

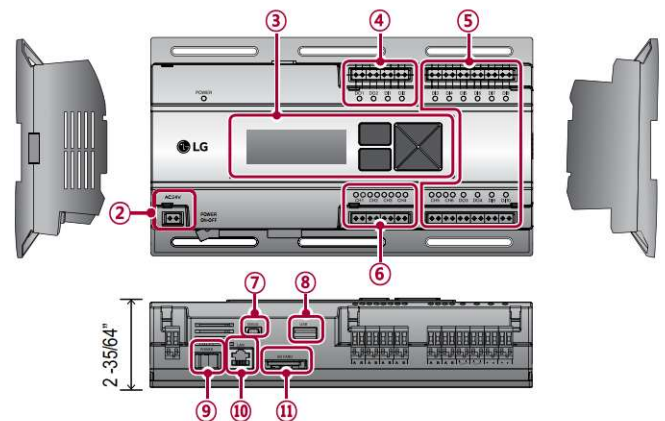
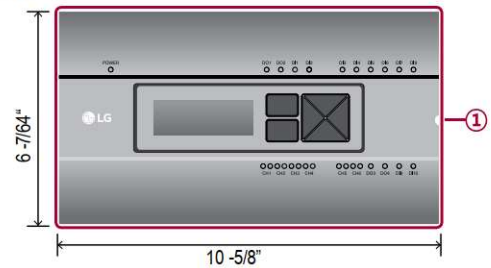
Type	2-conductor, stranded, twisted, shielded copper cable/PVC or vinyl jacket
Size	AWG 18 x 2
Maximum Length	3,280 ft (end to end)

AWG - American Wire Gauge

Optional Accessories:

- PI-485 V-Net Interface Adapter for DFS - PMNFP14A0
- PI-485 V-Net Interface Adapter for ERV - PSNFP14A0
- Power Distribution Indicator (PDI) - PQNUD1S41

Dimensions:



- | | |
|---|------------------------------|
| 1. Cover | 6. RS-485 Communication Port |
| 2. Power Port | 7. Mini USB Port |
| 3. Buttons and LCD Display | 8. USB Port |
| 4. Basic External Input/Output Signal Connectors | 9. Power Switch |
| 5. Optional Input/Output and RS-485 Communication Ports | 10. Ethernet Port |
| | 11. SD Card Slot |



BACnet® is a registered trademark of ASHRAE.

PACP5A000

ACP 5 Controller

Central Control/Integration Solutions



Tag No.: Qty 1

Date: 04/28/2025

PO No.:

IDU Points

Name	Object Name (XXX : Unit Address Number)	Object Type
On/Off (Setting)	StartStopCommand_XXX	BO
On/Off (Status)	StartStopStatus_XXX	BI
Lock (Setting)	LockCommand_XXX	BO
Lock (Status)	LockStatus_XXX	BI
Filter Sign	FilterSign_XXX	BI
Filter Sign reset	FilterSignReset_XXX	BV
Operation Mode (Setting)	AirConModeCommand_XXX	MO
Operation Mode (Status)	AirConModeStatus_XXX	MI
Swing (Setting)	SwingCommand_XXX	BO
Swing (Status)	SwingStatus_XXX	BI
Fan Speed (Setting)	FanSpeedCommand_XXX	MO
Fan Speed (Status)	FanSpeedStatus_XXX	MI
Set Room Temperature	SetRoomTemp_XXX	AV
Room Temperature	RoomTemp_XXX	AI
Alarm	Alarm_XXX	BI
Error Code	MalfunctionCode_XXX	AI
Set Temperature (Status)	SetTempStatus_XXX	AI
Accumulated Power Distribution (Status)	Accumulated power(100 Watt)_XXX	AI
Set Upper Temperature (Setting)	TempRangeUpperLimitCommand_XXX	AV
Set Lower Temperature (Setting)	TempRangeLowerLimitCommand_XXX	AV
Set Upper Temperature (Status)	TempRangeUpperLimitStatus_XXX	AI
Set Lower Temperature (Status)	TempRangeLowerLimitStatus_XXX	AI
Mode Lock (Setting)	ModeLockCommand_XXX	BO
Mode Lock (Status)	ModeLockStatus_XXX	BI
Fan Lock (Setting)	FanLockCommand_XXX	BO
Fan Lock (Status)	FanLockStatus_XXX	BI

PACP5A000

ACP 5 Controller

Central Control/Integration Solutions



Tag No.: Qty 1

Date: 04/28/2025

PO No.:

IDU Points, continued.

Name	Object Name (XXX : Unit Address Number)	Object Type
Occupancy (Setting)	OccupancyCommand_XXX	BO
Occupancy (Status)	OccupancyStatus_XXX	BI
2Set Cooling Set Temperature (Setting)	2SetCoolingTempCommand_XXX	AV
2Set Cooling Set Temperature (Status)	2SetCoolingTempStatus_XXX	AI
2Set Heating Set Temperature (Setting)	2SetHeatingTempCommand_XXX	AV
2Set Heating Set Temperature (Status)	2SetHeatingTempStatus_XXX	AI
2Set Cooling Upper Temperature (Setting)	2SetCoolingUpperLimitCommand_XXX	AV
2Set Cooling Upper Temperature (Status)	2SetCoolingUpperLimitStatus_XXX	AI
2Set Heating Upper Temperature (Setting)	2SetHeatingUpperLimitCommand_XXX	AV
2Set Heating Upper Temperature (Status)	2SetHeatingUpperLimitStatus_XXX	AI
2Set Cooling Lower Temperature (Setting)	2SetCoolingLowerLimitCommand_XXX	AV
2Set Heating Lower Temperature (Setting)	2SetHeatingLowerLimitCommand_XXX	AV
2Set Heating Lower Temperature (Status)	2SetHeatingLowerLimitStatus_XXX	AI
Thermo Status (Status)	ThermoStatus_XXX	BI
Accumulated Gas Distribution (Status)	AccumulatedGas(100 Watt)_XXX	AI
Dust Sensor Available (Status)	DustSensorAvail_XXX	BI
Air Cleaning Operation (Setting)	AirCleaningOperCommand_XXX	BO
Air Cleaning Operation (Status)	AirCleaningOperStatus_XXX	BI
Fine Dust (Status)	FineDustStatus_XXX	AI
Ultra Fine Dust (Status)	UltraFineDustStatus_XXX	AI
Super Ultra Fine Dust (Status)	SuperUltraFineDustStatus_XXX	AI
Humidity (Status)	HumidityStatus_XXX	AI
Comfort Cooling Available (Status)	ComfortCoolingAvail_XXX	BI
Comfort Cooling Operation (Setting)	ComfortCoolingOperCommand_XXX	BO
Comfort Cooling Operation (Status)	ComfortCoolingOperStatus_XXX	BI
Comfort Cooling Step (Setting)	ComfortCoolingStepCommand_XXX	AV
Comfort Cooling Step (Status)	ComfortCoolingStepStatus_XXX	AI
Human Detection Available (Status)	HumanDetectionAvail_XXX	BI
Human Detection Operation (Setting)	HumanDetectionOperCommand_XXX	MO
Human Detection Operation (Status)	HumanDetectionOperStatus_XXX	MI
Human Detection Wind (Setting)	HumanDetectionWindCommand_XXX	MO
Human Detection Wind (Status)	HumanDetectionWindStatus_XXX	MI
Human Detection Time (Setting)	HumanDetectionTimeCommand_XXX	MO
Human Detection Time (Status)	HumanDetectionTimeStatus_XXX	MI

PACP5A000

ACP 5 Controller

Central Control/Integration Solutions



Tag No.: Qty 1

Date: 04/28/2025

PO No.:

Vent Points

Name	Object Name (XXX : Unit Address Number)	Object Type
On/Off (Setting)	StartStopCommand_XXX	BO
On/Off (Status)	StartStopStatus_XXX	BI
Lock (Setting)	LockCommand_XXX	BO
Lock (Status)	LockStatus_XXX	BI
Filter Sign	FilterSign_XXX	BI
Filter Sign reset	FilterSignReset_XXX	BV
Operation Mode (Setting)	AirConModeCommand_XXX	MO
Operation Mode (Status)	AirConModeStatus_XXX	MI
Fan Speed (Setting)	FanSpeedCommand_XXX	MO
Fan Speed (Status)	FanSpeedStatus_XXX	MI
Set Room Temperature	SetRoomTemp_XXX	AV
Alarm	Alarm_XXX	BI
Error Code	MalfunctionCode_XXX	AI
User Mode (Setting)	UserModeCommand_XXX	MO
User Mode (Status)	UserModeStatus_XXX	MI
Set Temperature (Status)	SetTempStatus_XXX	AI
Accumulated Power Distribution (Status)	Accumulated power(100 Watt)_XXX	AI
AC Operation Mode (Setting)	UserModeAcCommand_XXX	MO
AC Operation Mode (Status)	UserModeAcStatus_XXX	MI
AC ON/OFF (Setting)	UserModeAcOperCommand_XXX	BO
AC ON/OFF (Status)	UserModeAcOperStatus_XXX	BI
AC Humidify (Setting)	HumidifierOperCommand_XXX	BO
AC Humidify (Status)	HumidifierOperStatus_XXX	BI
Partial Lock Available (Status)	PatialLockAvail_XXX	BI
Set Upper Temperature (Setting)	TempRangeUpperLimitCommand_XXX	AV
Set Lower Temperature (Setting)	TempRangeLowerLimitCommand_XXX	AV
Set Upper Tempaerature (Status)	TempRangeUpperLimitStatus_XXX	AI
Set Lower Temperature (Status)	TempRangeLowerLimitStatus_XXX	AI
Mode Lock (Setting)	ModeLockCommand_XXX	BO
Mode Lock (Status)	ModeLockStatus_XXX	BI
Fan Lock (Setting)	FanLockCommand_XXX	BO
Fan Lock (Status)	FanLockStatus_XXX	BI
NTFC Available (Status)	NtfcAvail_XXX	BI
NTFC Operation (Setting)	NtfcOperCommand_XXX	BO
NTFC Operation (Status)	NtfcOperStatus_XXX	BI
NTFC Lock (Setting)	NtfcLockCommand_XXX	BO
NTFC Lock (Status)	NtfcLockStatus_XXX	BI

PACP5A000

ACP 5 Controller

Central Control/Integration Solutions



Tag No.: Qty 1

Date: 04/28/2025

PO No.:

AHU Points

Name	Object Name (XXX : Unit Address Number)	Object Type
On/Off (Setting)	StartStopCommand_XXX	BO
On/Off (Status)	StartStopStatus_XXX	BI
Lock (Setting)	LockCommand_XXX	BO
Lock (Status)	LockStatus_XXX	BI
Filter Sign	FilterSign_XXX	BI
Operation Mode (Setting)	AirConModeCommand_XXX	MO
Operation Mode (Status)	AirConModeStatus_XXX	MI
Fan Speed (Setting)	FanSpeedCommand_XXX	MO
Fan Speed (Status)	FanSpeedStatus_XXX	MI
Set Room Temperature	SetRoomTemp_XXX	AV
Room Temperature	RoomTemp_XXX	AI
Alarm	Alarm_XXX	BI
Error Code	MalfunctionCode_XXX	AI
Set Temperature (Status)	SetTempStatus_XXX	AI
FireAlarm (Setting)	FireAlarmCommand_XXX	BO
FireAlarm (Status)	FireAlarmStatus_XXX	BI
Humidity (Setting)	SetHumidityCommand_XXX	AV
Humidity (Status)	SetHumidityStatus_XXX	AI
Humidify ON/OFF (Setting)	HumidifyCommand_XXX	BO
Humidify ON/OFF (Status)	HumidifyStatus_XXX	BI
Auto Ventilation ON/OFF (Setting)	AutoVentilCommand_XXX	BO
Auto Ventilation ON/OFF (Status)	AutoVentilStatus_XXX	BI
Supply Unit Temperature (Status)	SupplyTempStatus_XXX	AI
Outdoor Unit Temperature (Status)	OutdoorTempStatus_XXX	AI
Mix Unit Temperature (Status)	MixTempStatus_XXX	AI
Supply Unit Humidity (Status)	SupplyHumidifyStatus_XXX	AI
Outdoor Unit Humidity (Status)	OutdoorHumidifyStatus_XXX	AI
Ventilation Unit Humidity (Status)	VentilHumidifyStatus_XXX	AI
CO2 Value (Status)	CO2ValueStatus_XXX	AI
Humidity Unit ON/OFF (Status)	HumidifyUnitStatus_XXX	BI
Heating Unit ON/OFF (Status)	HeaterUnitStatus_XXX	BI
Ventilator FAN ON/OFF (Status)	VentilFanStatus_XXX	BI
Supply Unit FAN ON/OFF (Status)	SupplyFanStatus_XXX	BI
Current OA Damper (Status)	CurrOADamperStatus_XXX	AI
Current EA Damper (Status)	CurrEADamperStatus_XXX	AI

PACP5A000

ACP 5 Controller

Central Control/Integration Solutions



Tag No.: Qty 1

Date: 04/28/2025

PO No.:

AHU Points, continued.

Name	Object Name (XXX : Unit Address Number)	Object Type
Current Mix Damper (Status)	CurrMixDamperStatus_XXX	AI
Cooling OA Damper (Setting)	OADamperCoolCommand_XXX	AV
Cooling OA Damper (Status))	OADamperCoolStatus_XXX	AI
Cooling EA Damper (Setting)	EADamperCoolCommand_XXX	AV
Cooling EA Damper (Status))	EADamperCoolStatus_XXX	AI
Cooling Mix Damper (Setting)	MixDamperCoolCommand_XXX	AV
Cooling Mix Damper (Status))	MixDamperCoolStatus_XXX	AI
Heating OA Damper (Setting)	OADamperHeatCommand_XXX	AV
Heating OA Damper (Status))	OADamperHeatStatus_XXX	AI
Heating EA Damper (Setting)	EADamperHeatCommand_XXX	AV
Heating EA Damper (Status))	EADamperHeatStatus_XXX	AI
Heating Mix Damper (Setting)	MixDamperHeatCommand_XXX	AV
Heating Mix Damper (Status))	MixDamperHeatStatus_XXX	AI
FAN OA Damper (Setting)	OADamperFanCommand_XXX	AV
FAN OA Damper (Status))	OADamperFanStatus_XXX	AI
FAN EA Damper (Setting)	EADamperFanCommand_XXX	AV
FAN EA Damper (Status))	EADamperFanStatus_XXX	AI
FAN Mix Damper (Setting)	MixDamperFanCommand_XXX	AV
FAN Mix Damper (Status))	MixDamperFanStatus_XXX	AI

PACP5A000

ACP 5 Controller

Central Control/Integration Solutions



Tag No.: Qty 1

Date: 04/28/2025

PO No.:

AWHP Points

Name	Object Name (XXX : Unit Address Number)	Object Type
Run/Stop (Setting)	StartStopCommand_XXX	BO
Run/Stop (Status)	StartStopStatus_XXX	BI
Lock (Setting)	LockCommand_XXX	BO
Lock (Status)	LockStatus_XXX	BI
Operation Mode (Setting)	ModeCommand_XXX	MO
Operation Mode (Status)	ModeStatus_XXX	MI
Set Room Temperature (Setting)	SetRoomTempCommand_XXX	AV
Set Room Temperature (Status)	SetRoomTempStatus_XXX	AI
Set Hot Water Temperature (Setting)	SetHotWaterTempCommand_XXX	AV
Set Hot Water Temperature (Status)	SetHotWaterTempStatus_XXX	AI
Set PipeOut Water Temperature (Setting)	SetPipeOutWaterTempCommand_XXX	AV
Set PipeOut Water Temperature (Status)	SetPipeOutWaterTempStatus_XXX	AI
Setting Temperature Reference (Air/Water)	AirWaterFlag_XXX	BI
Hot Water Only Mode	HotWaterOnlyFlag_XXX	BI
Current Room Temperature	RoomTemp_XXX	AI
Alarm Event	Alarm_XXX	BI
Malfunction Code	MalfunctionCode_XXX	AI
HotWater On/Off (Setting)	HotWaterCommand_XXX	BO
HotWater On/Off (Status)	HotWaterStatus_XXX	BI
Pipe Inlet Temperature Status	PipeInTempStatus_XXX	AI
Water Tank Temperature Status	TankTempStatus_XXX	AI
Solar Temperature Status	SolarTempStatus_XXX	AI
Pipe Outlet Temperature Status	PipeOutTempStatus_XXX	AI
Accumulated Power Distribution (Status)	Accumulated power(100 Watt)_XXX	AI

PACP5A000

ACP 5 Controller

Central Control/Integration Solutions



Tag No.: Qty 1

Date: 04/28/2025

PO No.:

General Points

Name	Object Name (XXX : Unit Address Number)	Object Type
All Unit Run/Stop (Setting)	AllStartStopCommand	BO
All Unit Set Room Temperature (Setting)	AllSetRoomTempCommand	AV
All Unit Temperature Lock (Setting)	AllTempLockCommand	BO
Total Accumulated Power (Status)	TotalAccumulatedPower	AI
Peak Control Operation (Setting)	PeakStartStopCommand	BO
Peak Control Operation (Status)	PeakStartStopStatus	BI
Peak Shift Time(Setting)	PeakShiftTimeCommand	AV
Peak Shift Time(Status)	PeakShiftTimeStatus	AI
Peak Target Ratio(Setting)	PeakTargetCommand	AV
Peak Target Ratio(Status)	PeakTargetStatus	AI
Peak Current Running Ratio(Status)	PeakCurrentStatus	AI
Remote Shutdown(Setting)	RemoteShutDownCommand	BO
Temperature Unit Setting (Setting)	TempUnitCommand	BO
Temperature Unit Setting (Status)	TempUnitStatus	BI

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Tag No.: Qty 1

Date: 04/28/2025

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ODU Points

Name	Object Name (XXX : Unit Address Number)	Object Type
Compressor Operation	CompressorOperation_XXX	BI
Refrigerant Type	RefrigerantType_XXX	MI
Fan1 Frequency	Fan1Frequency_XXX	AI
High Pressure	HighPressure_XXX	AI
Low Pressure	LowPressure_XXX	AI
Compressor Suction Temp	CompressorSuctionTemp_XXX	AI
Liquid Pipe Temp	LiquidPipeTemp_XXX	AI
Heat Exchange Temp	HeatExchangeTemp_XXX	AI
Outdoor Unit EEV	OutdoorUnitEEV_XXX	AI
Over-cooler EEV	Over-coolerEEV_XXX	AI
Hot Gas Valve	HotGasValue_XXX	BI
Inverter Discharge Temp	InverterDischargeTemp_XXX	AI
Air Temperature	AirTemp_XXX	AI
Operation Mode	OperationMode_XXX	MI
Error Code	ErrorCode_XXX	AI
Inverter1 Compressor Frequency	Inverter1CompressorFrequency_XXX	AI
Inverter2 Compressor Frequency	Inverter2CompressorFrequency_XXX	AI
Fan2 Frequency	Fan2Frequency_XXX	AI
Inverter2 Discharge Temp	Inverter2DischargeTemp_XXX	AI
Std1 Discharge Temp	Std1DischargeTemp_XXX	AI
Std2 Discharge Temp	Std2DischargeTemp_XXX	AI
Upper Hex Temp	UpperHexTemp_XXX	AI
Lower Hex Temp	LowerHexTemp_XXX	AI
Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI
Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI
Sub EEV Pulse	SubEevPulse_XXX	AI
Oil Equalizing EEV	OilEqualizingEEV_XXX	AI
Vapor Injection EEV1	ViEev1_XXX	AI
Vapor Injection EEV2	ViEev2_XXX	AI
Inverter1 Heater	Inverter1Heater_XXX	BI
Inverter2 Heater	Inverter2Heater_XXX	BI
Inverter1 Oil Sensor	Inverter1OilSensor_XXX	BI
Inverter2 Oil Sensor	Inverter2OilSensor_XXX	BI
Inverter1 Backup	Inverter1Backup_XXX	BI
Inverter2 Backup	Inverter2Backup_XXX	BI
DDC	DDC_XXX	BI

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Tag No.: Qty 1

Date: 04/28/2025

PO No.:

ODU Points, continued.

Name	Object Name (XXX : Unit Address Number)	Object Type
(Slave1) Compressor Operation	CompressorOperation_XXX	BI
(Slave1) Refrigerant Type	RefrigerantType_XXX	MI
(Slave1) Fan1 Frequency	Fan1Frequency_XXX	AI
(Slave1) High Pressure	HighPressure_XXX	AI
(Slave1) Low Pressure	LowPressure_XXX	AI
(Slave1) Compressor Suction Temp	CompressorSuctionTemp_XXX	AI
(Slave1) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI
(Slave1) Heat Exchange Temp	HeatExchangeTemp_XXX	AI
(Slave1) Outdoor Unit EEV	OutdoorUnitEEV_XXX	AI
(Slave1) Over-cooler EEV	Over-coolerEEV_XXX	AI
(Slave1) Hot Gas Valve	HotGasValue_XXX	BI
(Slave1) Inverter Discharge Temp	InverterDischargeTemp_XXX	AI
(Slave1) Air Temperature	AirTemp_XXX	AI
(Slave1) Operation Mode	OperationMode_XXX	MI
(Slave1) Error Code	ErrorCode_XXX	AI
(Slave1) Inverter1 Compressor Frequency	Inverter1CompressorFrequency_XXX	AI
(Slave1) Inverter2 Compressor Frequency	Inverter2CompressorFrequency_XXX	AI
(Slave1) Fan2 Frequency	Fan2Frequency_XXX	AI
(Slave1) Inverter2 Discharge Temp	Inverter2DischargeTemp_XXX	AI
(Slave1) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI
(Slave1) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI
(Slave1) Upper Hex Temp	UpperHexTemp_XXX	AI
(Slave1) Lower Hex Temp	LowerHexTemp_XXX	AI
(Slave1) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI
(Slave1) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI
(Slave1) Sub EEV Pulse	SubEevPulse_XXX	AI
(Slave1) Oil Equalizing EEV	OilEqualizingEEV_XXX	AI
(Slave1) Vapor Injection EEV1	ViEev1_XXX	AI
(Slave1) Vapor Injection EEV2	ViEev2_XXX	AI
(Slave1) Inverter1 Heater	Inverter1Heater_XXX	BI
(Slave1) Inverter2 Heater	Inverter2Heater_XXX	BI
(Slave1) Inverter1 Oil Sensor	Inverter1OilSensor_XXX	BI
(Slave1) Inverter2 Oil Sensor	Inverter2OilSensor_XXX	BI
(Slave1) Inverter1 Backup	Inverter1Backup_XXX	BI
(Slave1) Inverter2 Backup	Inverter2Backup_XXX	BI
(Slave1) DDC	DDC_XXX	BI

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PO No.:

ODU Points, continued.

Name	Object Name (XXX : Unit Address Number)	Object Type
(Slave2) Compressor Operation	CompressorOperation_XXX	BI
(Slave2) Refrigerant Type	RefrigerantType_XXX	MI
(Slave2) Fan1 Frequency	Fan1Frequency_XXX	AI
(Slave2) High Pressure	HighPressure_XXX	AI
(Slave2) Low Pressure	LowPressure_XXX	AI
(Slave2) Compressor Suction Temp	CompressorSuctionTemp_XXX	AI
(Slave2) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI
(Slave2) Heat Exchange Temp	HeatExchangeTemp_XXX	AI
(Slave2) Outdoor Unit EEV	OutdoorUnitEEV_XXX	AI
(Slave2) Over-cooler EEV	Over-coolerEEV_XXX	AI
(Slave2) Hot Gas Valve	HotGasValue_XXX	BI
(Slave2) Inverter Discharge Temp	InverterDischargeTemp_XXX	AI
(Slave2) Air Temperature	AirTemp_XXX	AI
(Slave2) Operation Mode	OperationMode_XXX	MI
(Slave2) Error Code	ErrorCode_XXX	AI
(Slave2) Inverter1 Compressor Frequency	Inverter1CompressorFrequency_XXX	AI
(Slave2) Inverter2 Compressor Frequency	Inverter2CompressorFrequency_XXX	AI
(Slave2) Fan2 Frequency	Fan2Frequency_XXX	AI
(Slave2) Inverter2 Discharge Temp	Inverter2DischargeTemp_XXX	AI
(Slave2) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI
(Slave2) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI
(Slave2) Upper Hex Temp	UpperHexTemp_XXX	AI
(Slave2) Lower Hex Temp	LowerHexTemp_XXX	AI
(Slave2) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI
(Slave2) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI
(Slave2) Sub EEV Pulse	SubEevPulse_XXX	AI
(Slave2) Oil Equalizing EEV	OilEqualizingEEV_XXX	AI
(Slave2) Vapor Injection EEV1	ViEev1_XXX	AI
(Slave2) Vapor Injection EEV2	ViEev2_XXX	AI
(Slave2) Inverter1 Heater	Inverter1Heater_XXX	BI
(Slave2) Inverter2 Heater	Inverter2Heater_XXX	BI
(Slave2) Inverter1 Oil Sensor	Inverter1OilSensor_XXX	BI
(Slave2) Inverter2 Oil Sensor	Inverter2OilSensor_XXX	BI
(Slave2) Inverter1 Backup	Inverter1Backup_XXX	BI
(Slave2) Inverter2 Backup	Inverter2Backup_XXX	BI
(Slave2) DDC	DDC_XXX	BI

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Date: 04/28/2025

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ODU Points, continued.

Name	Object Name (XXX : Unit Address Number)	Object Type
(Slave2) Compressor Operation	CompressorOperation_XXX	BI
(Slave2) Refrigerant Type	RefrigerantType_XXX	MI
(Slave2) Fan1 Frequency	Fan1Frequency_XXX	AI
(Slave2) High Pressure	HighPressure_XXX	AI
(Slave2) Low Pressure	LowPressure_XXX	AI
(Slave2) Compressor Suction Temp	CompressorSunctionTemp_XXX	AI
(Slave2) Liquid Pipe Temp	LiquidPipeTemp_XXX	AI
(Slave2) Heat Exchange Temp	HeatExchangeTemp_XXX	AI
(Slave2) Outdoor Unit EEV	OutdoorUnitEEV_XXX	AI
(Slave2) Over-cooler EEV	Over-coolerEEV_XXX	AI
(Slave2) Hot Gas Valve	HotGasValue_XXX	BI
(Slave2) Inverter Discharge Temp	InverterDischargeTemp_XXX	AI
(Slave2) Air Temperature	AirTemp_XXX	AI
(Slave2) Operation Mode	OperationMode_XXX	MI
(Slave2) Error Code	ErrorCode_XXX	AI
(Slave2) Inverter1 Compressor Frequency	Inverter1CompressorFrequency_XXX	AI
(Slave2) Inverter2 Compressor Frequency	Inverter2CompressorFrequency_XXX	AI
(Slave2) Fan2 Frequency	Fan2Frequency_XXX	AI
(Slave2) Inverter2 Discharge Temp	Inverter2DischargeTemp_XXX	AI
(Slave2) Std1 Discharge Temp	Std1DischargeTemp_XXX	AI
(Slave2) Std2 Discharge Temp	Std2DischargeTemp_XXX	AI
(Slave2) Upper Hex Temp	UpperHexTemp_XXX	AI
(Slave2) Lower Hex Temp	LowerHexTemp_XXX	AI
(Slave2) Sub Cool Pipe In Temp	SubCoolPipeInTemp_XXX	AI
(Slave2) Sub Cool Pipe Out Temp	SubCoolPipeOutTemp_XXX	AI
(Slave2) Sub EEV Pulse	SubEevPulse_XXX	AI
(Slave2) Oil Equalizing EEV	OilEqualizingEEV_XXX	AI
(Slave2) Vapor Injection EEV1	ViEev1_XXX	AI
(Slave2) Vapor Injection EEV2	ViEev2_XXX	AI
(Slave2) Inverter1 Heater	Inverter1Heater_XXX	BI
(Slave2) Inverter2 Heater	Inverter2Heater_XXX	BI
(Slave2) Inverter1 Oil Sensor	Inverter1OilSensor_XXX	BI
(Slave2) Inverter2 Oil Sensor	Inverter2OilSensor_XXX	BI
(Slave2) Inverter1 Backup	Inverter1Backup_XXX	BI
(Slave2) Inverter2 Backup	Inverter2Backup_XXX	BI
(Slave2) DDC	DDC_XXX	BI