Job Name/Location:

Tag No.:

Date:	
PO No.:	

For:

File

Approval

Resubmit Other_

GC:

Architect:

Mech:

Engr:

Rep:

(Project Manager)

PT-QAGW0

2' x 2' Cassette Panel

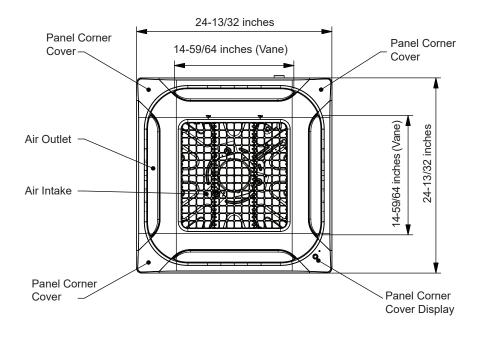
For Multi V™/Single-Zone /Multi F 4-Way Ceiling-Cassette Indoor Units

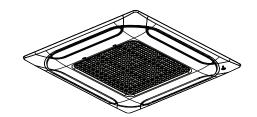


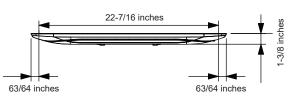


Unit Data:

Color	White
RAL Color Code	RAL 9003
RGB Color Code	236 - 236 - 231
Material	ABS XG571
Net Dimensions (W x H x D, in.)	24-13/32 x 1-3/8 x 24-13/32
Shipping Dimensions	
(W x H x D, in.)	27-/32 x 5 x 26-1/2
Net Weight (lbs.)	6.3
Shipping Weight (lbs.)	8.6
Display LED Color	Green
Filter	Washable







For: File Resubmit Date: **Approval** Other PO No.: GC: Architect: Mech: Engr:

(Project Manager)

1 LG

KUMXA481A R32 Multi F MAX with LGRED° Outdoor Unit Outdoor Unit (ODU) - KUMXA481A

Performance:

Rep:

Job Name/Location:

Cooling Capacity (MinRated-Max., Btu/h)	10,800~48,000~58,000
Heating Capacity (MinRated-Max., Btu/h)	12,420~52,500~59,000
Max. Heating Capacity at 17°F (Btu/h)	56,500
Max. Heating Capacity at 5°F (Btu/h)	52,500
Max. Heating Capacity at -4°F (Btu/h)	45,200
Max. Heating Capacity at -13°F (Btu/h)	39,200
Cooling COP @95°F (Rated)	3.84
Heating COP @47°F (Rated)	3.62
Cooling Nominal Test Conditions: Heating Nomi	nal Test Conditions:

Indoor: 80°F DB / 67°F WB Outdoor: 95°F DB / 75°F WB **Electrical:**

Indoor: 70°F DB / 60°F WB Outdoor: 47°F DB / 43°F WB

Power Supply (V/Hz/Ø)1,2 208-230V, 60, 1 MOP (A) 40 MCA (A) 33.3 Cooling Rated Amps (A) 24.30 Heating Rated Amps (A) 24.30 Compressor (A) 23.0 Fan Motor (A) 1.30 Locked Rotor Amps (A)

MOP - Maximum Overcurrent Protection Piping:

MCA - Minimum Circuit Ampacity

Refrigerant Charge (lbs.)	9.262
Liquid Line Connection (in., O.D.)	Ø3/8 x 1
Vapor Line Connection (in., O.D.)	Ø3/4 x 1
Maximum Total Piping ³ (ft.)	475.7
Min. / Max. ODU to IDU Piping ⁴ (ft.)	32.8 / 229.6
Piping Length ⁵ (no add'l refrigerant, ft.)	180.4
Additional Refrigerant Charge Main Pipe (oz. / ft.)	0.54
Additional Refrigerant Charge Branch Pipe (oz. / ft.)	0.22
Maximum Elevation between ODU and IDU (ft.)	98.4
Maximum Elevation between IDU and IDU (ft.)	49.2

ODU = Outdoor Unit

Features:

- Scroll (Variable Speed) Compressor
- Auto operation / Auto restart
- Integrated central control connection Restart delay (three [3] minutes)
- Self diagnosis / Soft start
- Defrost / Deicing
- Required Accessories:6
- □ 2-Port BD Unit PMBD3620ZR
- ☐ 3-Port BD Unit PMBD3630ZR
- **Optional Accessories:** □ Power Distribution Indicator
- (PDI) Premium PQNUD1S41 ☐ Mobile LGMV for Android® Smartphones / Tablets or for iOS® Tablets - PLGMVW100

(Android is a registered trademark of Google LLC. iOS is a registered trademark of Cisco Systems, Inc.)

Controller Options:

- ☐ MultiSITE Communication Mgr.
- □ AC Smart 5
- □ ACP 5

• Factory installed Drain Pan Heater

• Low ambient cooling down to 14°F

(-4°F with Wind Baffle Kit)

□ 4-Port BD Units -PMBD3640ZR / PMBD3641ZR

□ LG Monitoring View (LGMV) for Computers - PRCTILO

□ Low Ambient Wind Baffle Kit -ZLABGP04A x 2

□ ACP 5 BACnet® Gateway □ LonWorks® Gateway

BACnet® is a registered trademark of ASHRAE. Lon-Works is a registered trademark of Echelon Corp.

Operating Range:

Cooling (°F DB)	14 to 118
Heating (°F WB)	-13 to +64

Tag No:

Unit Data:

Office Bata.	
Refrigerant Type	R32
Refrigerant Control	EEV
Sound Pressure (Cool / Heat) ±1 dB(A) ⁷	54 / 56
Net / Shipping Weight (lbs.)	218.3 / 239.2
Power Wiring: ODU→BDU, BDU→IDU (No x AWG) ²	3 x 14, 3 x 14
Comm. Wiring: ODU→BDU, BDU→IDU (No x AWG) ²	2 x 18, 2 x 18
Heat Exchanger Coating	Gold Fin™
Minimum No. of Indoor Units	2
Maximum No. of Indoor Units	8

Compressor:

Туре	Scroll
Quantity	1
Oil / Type	PVE

Fan:

Туре	Propeller
Quantity	2
Motor / Drive	Brushless Digitally Controlled/Direct
Max. Airflow Rate (CFM)	2,119 x 2

Notes:

- Acceptable operating voltage: 187V 253V.
 All power supply wiring to the ODU is field supplied, solid or stranded. The power wiring and the communication wiring from the ODU to the BDU, and from the BDU to the IDU is field supplied and must be stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the ODU only). All wiring must comply with applicable local and national codes
- a. Power Supply Wiring to Outdoor Unit (No. x AWG): 3 x 8 for 48k, 54k, and 60k. b. Power Wiring and Communication Wiring from ODU to BD Unit (No. x AWG) 3 x 14 / 2 x 18. c. Power Wiring and Communication Wiring from BD Unit to IDU (No. x AWG) 3 x 14 / 2 x 18. 3. Piping lengths are equivalent.
- 4. 180.4 ft. of Main Piping + 49.2 ft. of Branch Piping. 5. 49.2 ft. of Main Piping + 131.2 of Branch Piping.
- 6. At least one branch distribution (BD) unit is required for system operation; a maximum of two can be installed per outdoor unit with the use of a Y-branch accessory (ARBLN03321).
- 7. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
- 8. See the Engineering Manual Capacity Tables for ODU sensible and latent capacities.
- 9. See the Engineering Manual Combination Tables for allocation of ODU rated capacity to each connected IDU when all are calling for full capacity. Allocation percentages should be applied to ODU capacity at design conditions
- 10. Capacity is rated 0 ft. above sea level, with a 0 ft. level difference between ODU and IDUs, and the following refrigerant pipe lengths:

KUMXA361A: 16.4 ft. Main + (16.4 ft. Branch x 5) = 98.4 ft. KUMXA421A: 16.4 ft. Main + (16.4 ft. Branch x 6) = 114.8 ft.

- KUMXA481A: 16.4 ft. Main + (16.4 ft. Branch x 8) = 147.6 ft.
- 11. Must follow installation instructions in the applicable LG installation manual. 12. See the Engineering Manual Capacity Tables for ODU capacity at design conditions.









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 trade-marks

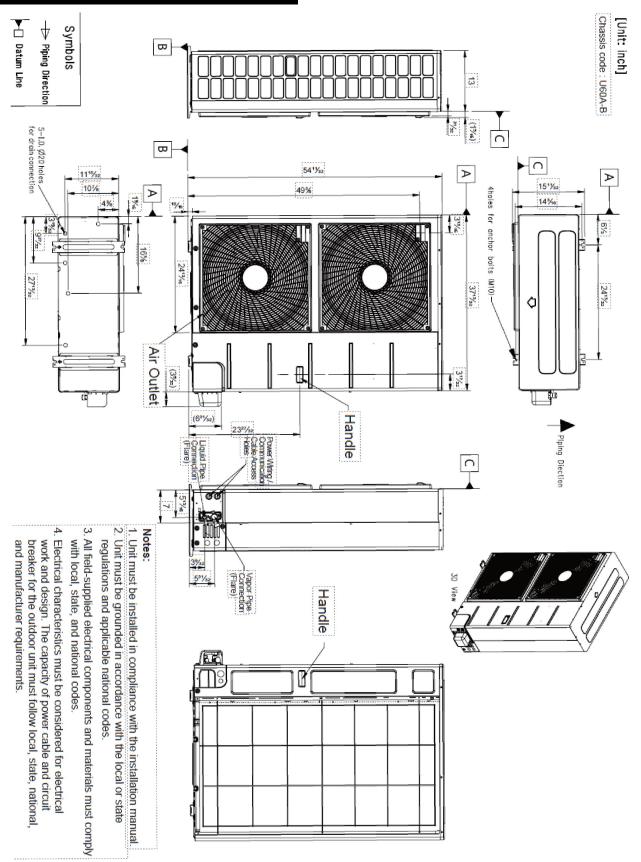
owned by the U.S. Environmental Protection Agency.



KUMXA481A R32 Multi F MAX with LGRED° Outdoor Unit Outdoor Unit (ODU) - KUMXA481A



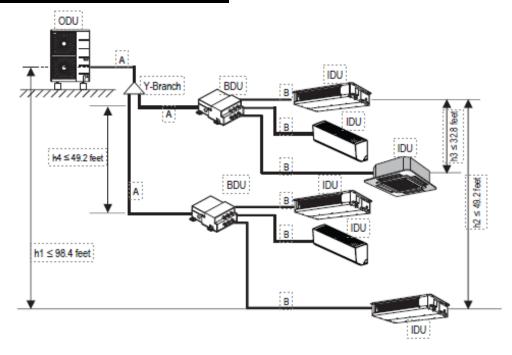
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KUMXA481A R32 Multi F MAX with LGRED° Outdoor Unit Outdoor Unit (ODU) - KUMXA481A



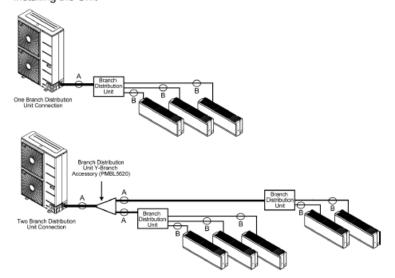
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Multi F MAX with LGRED Outdoor Unit Refrigerant Piping System Limitations.

	Total piping length (ΣA + ΣB)		≤475.7 feet
	Main pipe (Outdoor Unit to Branch Distribution	Minimum for Each (A) Piping Segment	16.4 feet
Pipe Length	Units: A)	Maximum (ΣA)	≤180.4 feet
(ELF = Equivalent Length of pipe in Feet)	Total branch piping length (ΣΒ)		≤295.3 feet
or pipe in reet)	Branch pipe (Branch Distribution Units to Indoor	Minimum	16.4 feet
	Units: B)	Maximum	≤49.2 feet
Elevation Differential	If outdoor unit is above or below indoor unit (h1)		≤98.4 feet
(All Elevation	Between the farthest two indoor units (h2)		≤49.2 feet
Limitations are	Between branch distribution unit and farthest connected indoor unit(s) (h3)		≤32.8 feet
Measured in Actual Feet)	Between branch distribution units (h4)		≤49.2 feet

Installing the Unit



Multi F MAX with LGRED Piping Sizes.

Piping	Main Pipe A (inch)	Branch Pipe B
Liquid	Ø3/8	Depends on the size of
Vapor	Ø3/4	the indoor unit piping.

Job Name/Location: For: File Resubmit Date: Approval Other_ PO No.: GC: Architect: Mech: Engr: Rep:

(Project Manager)



KNUDB091A

R32 Multi F 2 x 2 Four-Way Ceiling Cassette Indoor Unit

9,000 Btu/h

Performance:

Nominal Cooling Capacity (Btu/h)	9,000
Nominal Heating Capacity (Btu/h)	10,400

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) ^{1,2}	208-230/60/1
Rated Amps (A)	0.25

Piping:

ſ	Installed Liquid Pipe (in., O.D.)	ø1/4
١	Installed Vapor Pipe (in., O.D.)	ø3/8
١	Liquid Connection (in., O.D.)	ø1/4
١	Vapor Connection (in., O.D.)	ø3/8
١	Drain (in., O.D. / I.D.)	1-1/4, 1
l	Temperature Sensor	Thermistor

Controls Features:

- Two thermistor control
- 24-Hour on / off timer
- Auto operation
- Auto restart
- · Swirl swing • Control lock function
- Drain pump

- Group control
- Inverter (variable speed fan)
- let cool
- R32 leak detection sensor
- Compatible with accessory Wi-Fi module
- · Compatible with applicable Single

Zone Outdoor Units (see single zone literature for matching system details)

Included Accessories:

☐ Wireless Remote Controller - PWLSSB21H

Required Accessories:

□ Panel (24-13/32" x 24-13/32") - PT-QAGW0

Optional Accessories:

- $\hfill\Box$ Ventilation Flange³ PTVK430
- ☐ Auxiliary Heater Kit PRARH1
- □ Wi-Fi Module PWFMDD200
- ☐ Single-Port Shutoff Valve PRHPZ010A

Controller Options:

- □ MultiSITE™ CRC* Controllers
 □ Simple Remote Controllers
- ☐ Standard III Remote Controllers
- □ Deluxe Remote Controller
- ☐ Remote Temperature Button Sensor
- □ Dry Contacts

Entering Mixed Air:

Cooling (°F DB)	57 ~ 77
Heating (°F WB)	59 ~ 81

Tag No:

Unit Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Sound Pressure (H/M/L) dB(A)4	36 / 33 / 30
Standard Filter ⁵	Washable
Net Weight (lbs.)	28.4
Shipping Weight (lbs.)	34
Panel Net Weight (lbs.)	6.3
Panel Shipping Weight (lbs.)	8.6

Fan:

Tuno	Turbo
Туре	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Air Flow H/M/L (CFM)	300 / 265 / 230
Dehumidification Rate (pts./l	nr.) 1.5

Notes:

- Acceptable operating voltage: 187V-253V.
 The power wiring and the communication wiring from the outdoor unit to the indoor unit, or from the branch distribution 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 Wiring and Communication Wiring from Outdoor Unit to Indoor Unit (No. x AWG) 3 \times 14 / 2 \times 18. b. Power Wiring and Communication Wiring from Branch Distribution Unit to Indoor Unit (No. x AWG)
- 3. Must comply with applicable codes for fire isolation dampers.
- Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 Removable Washable Filter size: 14" x 14" x 1".
- See Engineering Manual for sensible and latent capacities
 The indoor unit comes with a dry helium charge.
- 8. Corresponding refrigerant piping length is in accordance with standard length of each outdoor unit and the level difference is 0 ft. All capacities are net with a combination ratio between 95 105%.
- 9. Must follow installation instructions in the applicable LG installation manual.



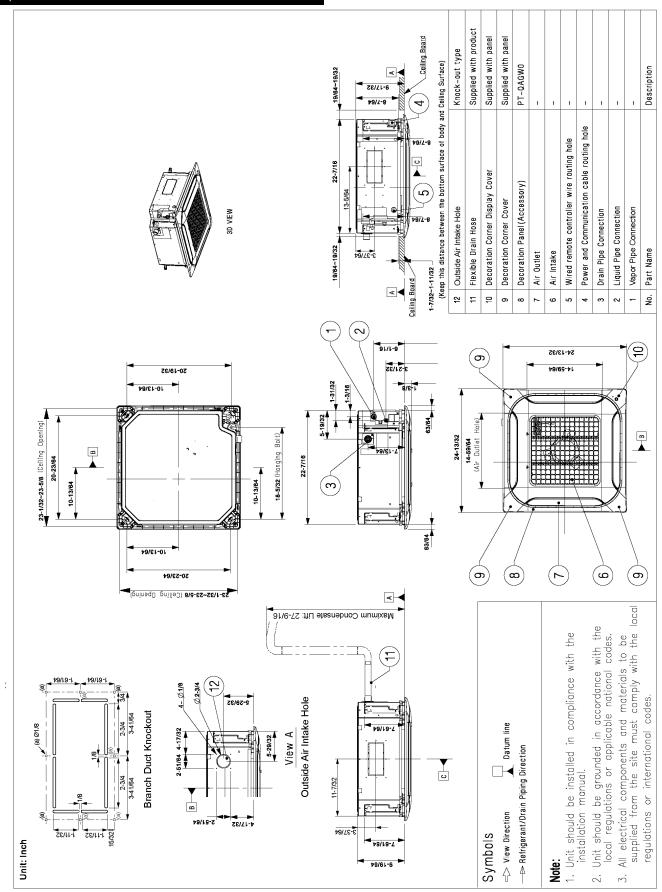


KNUDB091A

R32 Multi F 2 x 2 Four-Way Ceiling Cassette Indoor Unit

9,000 Btu/h





Job Name/Location: For: File Resubmit Date: Approval Other_ PO No.: GC: Architect: Mech: Engr:

(Project Manager)



KNUDB181A

R32 Multi F 2 x 2 Four-Way Ceiling Cassette Indoor Unit 18,000 Btu/h

Performance:

Rep:

Name in al. Carolina Caronaite (Dtv./b)	40.000
Nominal Cooling Capacity (Btu/h)	18,000
Nominal Heating Capacity (Btu/h)	20,800

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) ^{1,2}	208-230/60/1
Rated Amps (A)	0.25

Piping:

ø1/4
ø1/2
ø1/4
ø1/2
1-1/4, 1
Thermistor

Controls Features:

- Two thermistor control
- 24-Hour on / off timer
- Auto operation
- Auto restart
- · Swirl swing
- Control lock function
- Drain pump

- Group control
- Inverter (variable speed fan)
- let cool
- R32 leak detection sensor
- Compatible with accessory Wi-Fi module
- · Compatible with applicable Single

Zone Outdoor Units (see single zone literature for matching system details)

Included Accessories:

☐ Wireless Remote Controller - PWLSSB21H

Required Accessories:

□ Panel (24-13/32" x 24-13/32") - PT-QAGW0

Optional Accessories:

- □ Ventilation Flange³ PTVK430
- ☐ Auxiliary Heater Kit PRARH1
- ☐ Wi-Fi Module PWFMDD200
- ☐ Single-Port Shutoff Valve PRHPZ010A

Controller Options:

- □ MultiSITE™ CRC* Controllers
 □ Simple Remote Controllers
- ☐ Standard III Remote Controllers
- □ Deluxe Remote Controller
- ☐ Remote Temperature Button Sensor
- □ Dry Contacts

Entering Mixed Air:

Cooling (°F DB)	57 ~ 77
Heating (°F WB)	59 ~ 81

Tag No:

Unit Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Sound Pressure (H/M/L) dB(A)⁴	41 / 39 / 36
Standard Filter ⁵	Washable
Net Weight (lbs.)	30.9
Shipping Weight (lbs.)	37
Panel Net Weight (lbs.) Panel Shipping Weight (lbs.)	6.3
ranei Sinpping Weight (IDS.)	8.6

Fan:

Туре	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Air Flow H/M/L (CFM)	459 / 424 / 388
Dehumidification Rate (pts./hr.)	3.1

Notes:

- Acceptable operating voltage: 187V-253V.
 The power wiring and the communication wiring from the outdoor unit to the indoor unit, or from the branch distribution 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 Wiring and Communication Wiring from Outdoor Unit to Indoor Unit (No. x AWG) 3 \times 14 / 2 \times 18. b. Power Wiring and Communication Wiring from Branch Distribution Unit to Indoor Unit (No. x AWG)
- 3 x 14 / 2 x 16.

 3. Must comply with applicable codes for fire isolation dampers.

 4. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.

 5. Removable Washable Filter size: 14" x 14" x 1".
- See Engineering Manual for sensible and latent capacities
 The indoor unit comes with a dry helium charge.
- 8. Corresponding refrigerant piping length is in accordance with standard length of each outdoor unit and the level difference is 0 ft. All capacities are net with a combination ratio between 95 105%.
- 9. Must follow installation instructions in the applicable LG installation manual.
 10. Multi compatible 18k IDUs include socket adapters for refrigerant pipe connections with single zone
- systems



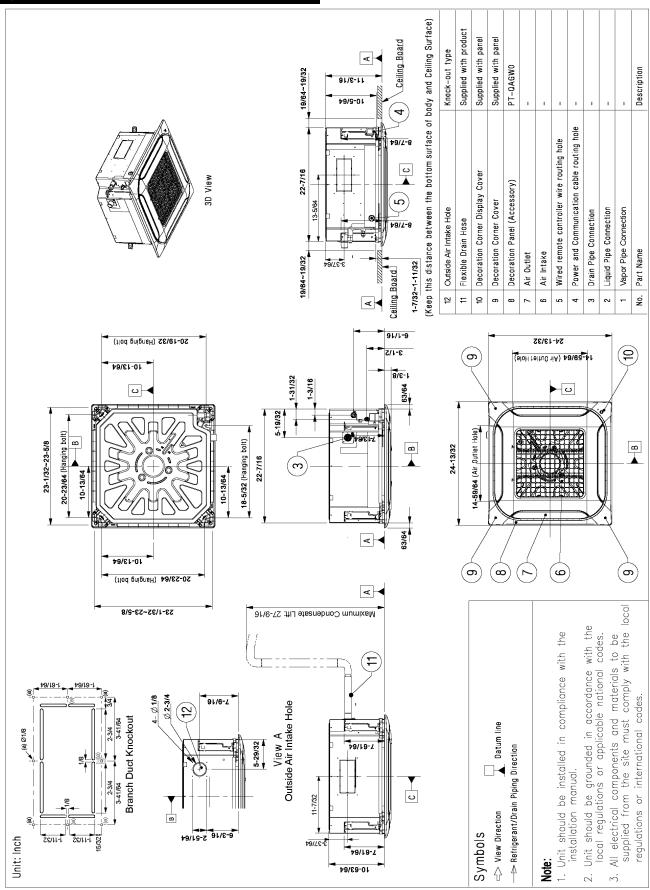


KNUDB181A

R32 Multi F 2 x 2 Four-Way Ceiling Cassette Indoor Unit

18,000 Btu/h





Job Name/Location: Date: For: File Resubmit Approval Other-PO No.: Architect: GC: Engr: Mech: Rep:

(Project Manager)



PMBD3630ZR

Three-Port Branch Distribution Unit For Multi F MAX and Multi F MAX with LGRED° Outdoor Units



Performance:

Max. Nominal Port Capacity	24,000
(Btu/h) (each port)	
Max. Nominal Unit Capacity	72,000
(Btu/h) (sum of ports)	
Connected Indoor Unit	7,000 ~ 24,000
Capacity (Btu/h)	
Power Input (W)	87

Electrical:

Power Supply (V/Hz/Ø) ¹	208-230/60/1
Rated Amps (A)	0.36

Piping:

Piping Connections to Outdoor Unit:

Liquid Line (in., O.D.)	ø3/8 Braze
Vapor Line (in., O.D.)	ø3/4 Braze

Piping Connections to Indoor Unit:

Liquid Line (in., O.D.)	Ø1/4 Flare x 3
Vapor Line (in., O.D.)	Ø3/8 Flare x 3

Features:

- Distributes refrigerant to indoor units
- Internal components are insulated
- Compact design

Operating Range:

Temperature Range (°F D.B.)	0 ~ 150
Maximum Humidity	80%

Tag No:

Unit Data:

Net Weight (lbs.)	18.3
Shipping Weight (lbs.)	21.8
Power Wiring: ODU→BDU, BDU→IDU (No x AWG) ²	3 x 14, 3 x 14
Comm. Wiring: ODU→BDU, BDU→IDU (No x AWG) ²	2 x 18, 2 x 18

Notes:

- 1. Acceptable operating voltage: 187V-253V.
- 2. The power wiring and the communication wiring from the outdoor unit to the branch distribution unit. and from the branch distribution 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 Wiring and Communication Wiring from ODU to BDU (No. x AWG) $3 \times 14 / 2 \times 18$.
 b. Power Wiring and Communication Wiring from BDU to IDU (No. x AWG) $3 \times 14 / 2 \times 18$.
 J. Piping lengths:

- Maximum height difference between branch distribution unit and indoor units 32.8 feet.
 Maximum height difference between branch distribution unit and branch distribution unit 49.2 feet.
- Maximum piping length between branch distribution unit and indoor units 49.2 feet.

 4. The branch distribution unit should be installed inside of a building.
- 5. Must follow installation instructions in the applicable LG installation manual.



PMBD3630ZR

Three-Port Branch Distribution Unit For Multi F MAX and Multi F MAX with LGRED° Outdoor Units



