

Job Name/Location:

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	Approval	Other

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Architect: GC:

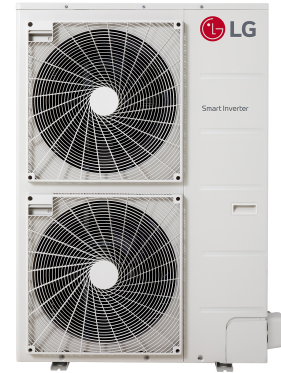
Engr: Mech:

Rep: (Company) (Project Manager)

KUMXA481A

R32 Multi F MAX with LGRED° Outdoor Unit

Outdoor Unit (ODU) - KUMXA481A

**Performance:**

Cooling Capacity (Min.-Rated-Max., Btu/h)	10,800-48,000-58,000
Heating Capacity (Min.-Rated-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:
Indoor: 80°F DB / 67°F WB
Outdoor: 95°F DB / 75°F WBHeating 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}	208-230V, 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)	22

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

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

IDU = Indoor Unit

Features:

- Scroll (Variable Speed) Compressor
- Auto operation / Auto restart
- Integrated central control connection
- Self diagnosis / Soft start
- Defrost / Deicing
- Low ambient cooling down to 14°F (-4°F with Wind Baffle Kit)
- Restart delay (three [3] minutes)
- Factory installed Drain Pan Heater

Required Accessories:⁶

- 2-Port BD Unit - PMBD3620ZR
- 3-Port BD Unit - PMBD3630ZR
- 4-Port BD Units - PMBD3640ZR / PMBD3641ZR

Optional Accessories:

- Power Distribution Indicator (PDI) Premium - PQNUD1S41
- Mobile LGMV for Android® Smartphones / Tablets or for iOS® Tablets - PLGMVW100
- LG Monitoring View (LGMV) for Computers - PRCTILO
- Low Ambient Wind Baffle Kit - ZLABGP04A x 2

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

Controller Options:

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

- ACP 5 BACnet® Gateway
- LonWorks® Gateway

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

Operating Range:

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

Unit Data:

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:

Type	Scroll
Quantity	1
Oil / Type	PVE

Fan:

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

Notes:

1. Acceptable operating voltage: 187V - 253V.
2. 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.)

LGRED°

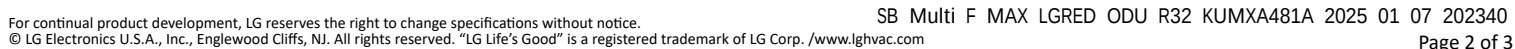
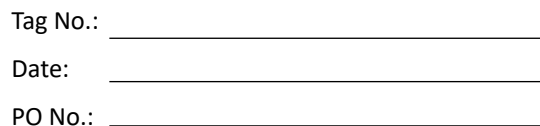
For a complete list of available accessories, contact your LG representative.

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

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KUMXA481A

R32 Multi F MAX with LGRED[®] Outdoor Unit

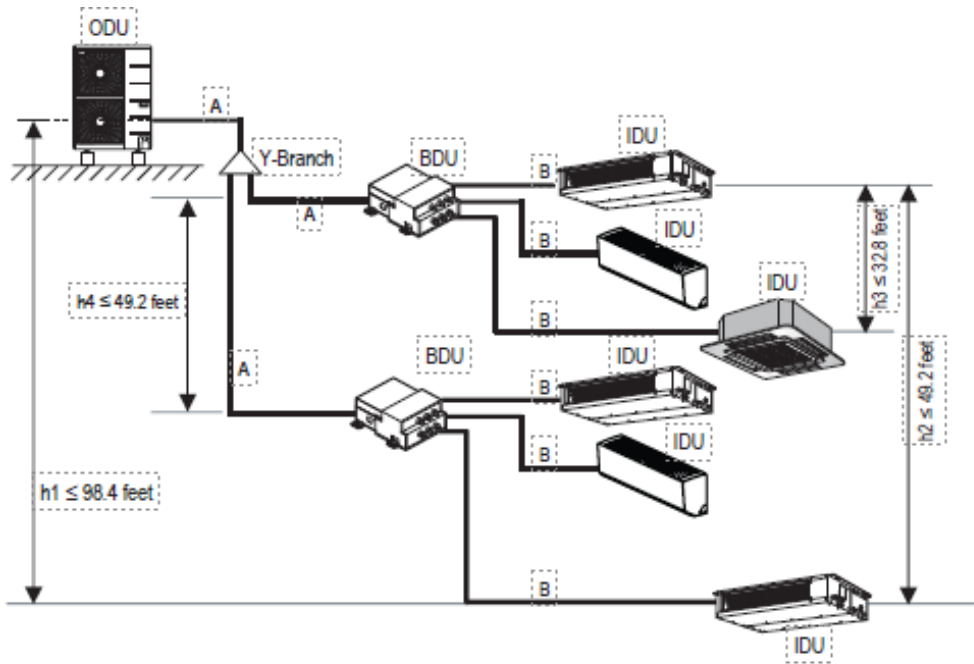
Outdoor Unit (ODU) - KUMXA481A



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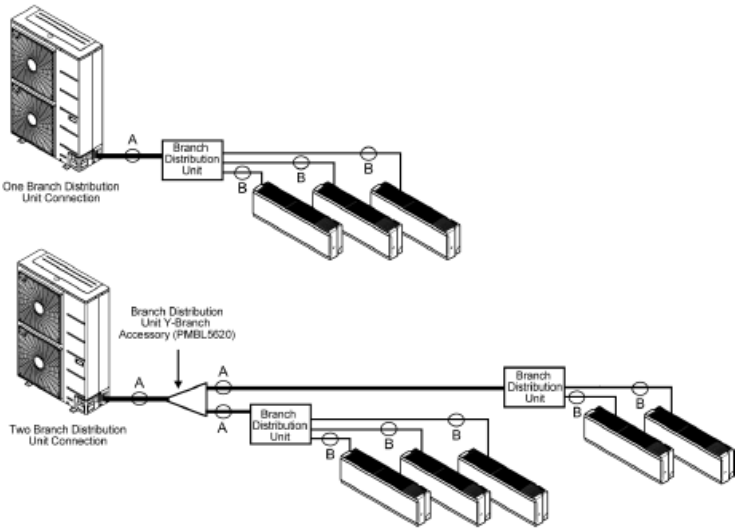
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Multi F MAX with LGRED Outdoor Unit Refrigerant Piping System Limitations.

Pipe Length (ELF = Equivalent Length of pipe in Feet)	Total piping length ($\Sigma A + \Sigma B$)		≤475.7 feet
	Main pipe (Outdoor Unit to Branch Distribution Units: A)	Minimum for Each (A) Piping Segment	16.4 feet
		Maximum (ΣA)	≤180.4 feet
	Total branch piping length (ΣB)		≤295.3 feet
Elevation Differential (All Elevation Limitations are Measured in Actual Feet)	Branch pipe (Branch Distribution Units to Indoor Units: B)	Minimum	16.4 feet
		Maximum	≤49.2 feet
	If outdoor unit is above or below indoor unit (h1)		≤98.4 feet
	Between the farthest two indoor units (h2)		≤49.2 feet
	Between branch distribution unit and farthest connected indoor unit(s) (h3)		≤32.8 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 the indoor unit piping.
Vapor	Ø3/4	

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Architect: GC:

Engr: Mech:

Rep:

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(Project Manager)



KNMAB071A

R32 Multi F Wall Mounted High Efficiency Indoor Unit

7,000 Btu/h



Performance:

Nominal Cooling Capacity (Btu/h)	7,000
Nominal Heating Capacity (Btu/h)	8,100

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 Current (A)	0.4

Piping:

Installed Liquid Pipe (in., O.D.)	Ø1/4
Installed Vapor Pipe (in., O.D.)	Ø3/8
Liquid Connection (in., O.D.)	Ø1/4
Vapor Connection (in., O.D.)	Ø3/8
Drain (in., O.D. / I.D.)	27/32, 5/8
Temperature Sensor	Thermistor

Controls Features:

- Left / right and up / down auto swing
- 24-Hour on/off timer
- Auto operation
- Auto restart
- Group control
- Inverter (variable speed fan)
- Jet cool / Jet heat
- 3M Micro Dust Filter
- Self-cleaning indoor coil
- Sleep mode
- R32 leak detection sensor
- Built-in Wi-Fi via Smart ThinQ app

Included Accessories:

- Wireless Remote Controller — AKB76044208

Optional Accessories:

- ☐ Auxiliary Heater Kit - PRARS1
- ☐ 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 WB)	57 ~ 77
Heating (°F DB)	59 ~ 81

Unit Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Sound Pressure (H/M/L) (±3 dB[A]) ³	35 / 31 / 26
Primary Filter	Washable Pre-filter
Secondary Filter	3M Micro Dust
Net Weight (lbs.)	19.73
Shipping Weight (lbs.)	22.7

Fan:

Type	Cross Flow
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Air Flow H/M/L (CFM)	254 / 204 / 148
Dehumidification (pts./hr.)	2.65

Notes:

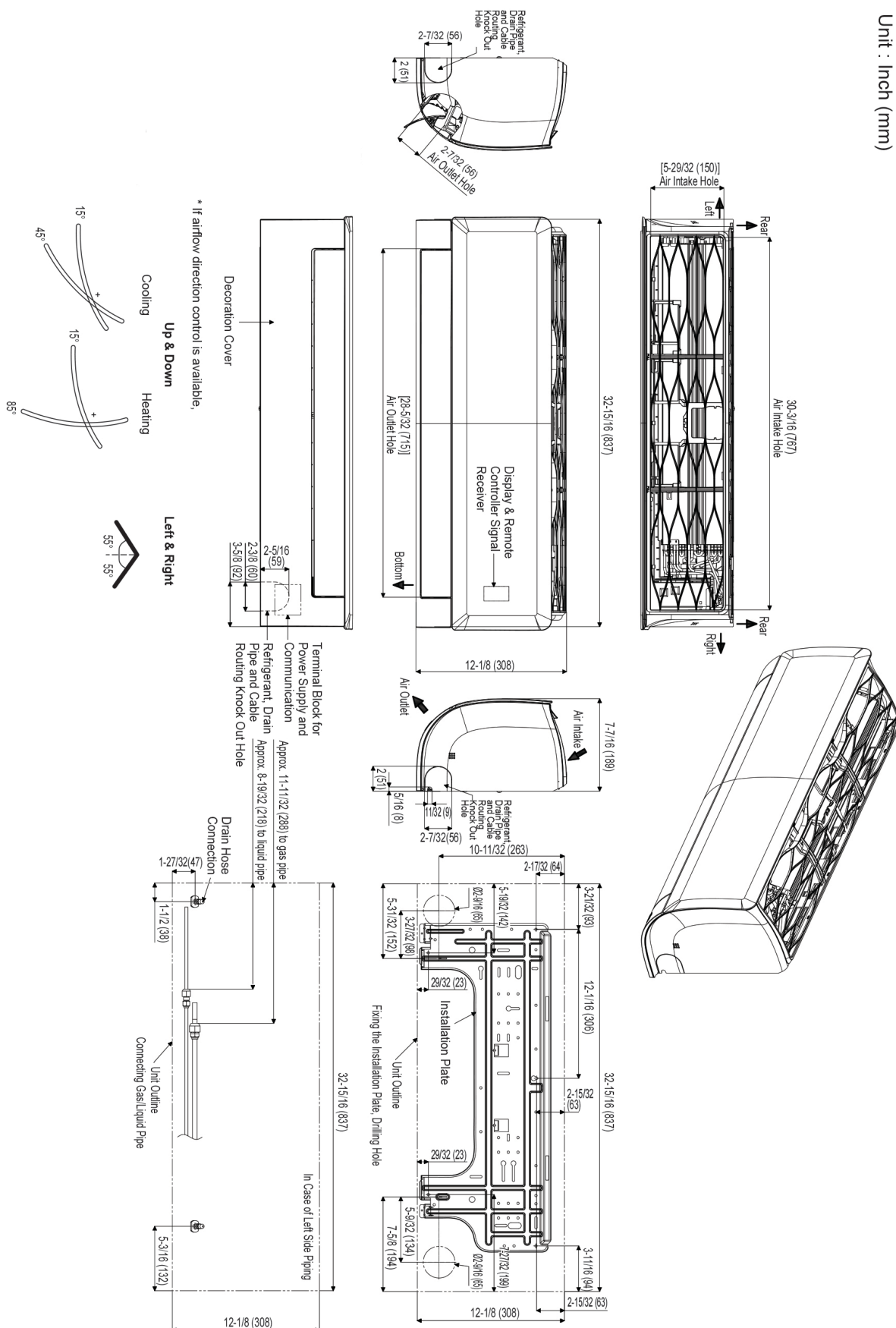
1. Acceptable operating voltage: 187V-253V.
2. The power wiring and the communication wiring from the outdoor unit to the indoor unit, or from the branch distribution unit to the indoor unit is field supplied and must be stranded, shielded or unshielded (if shielded, it must be grounded to the chassis 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 x 14 / 2 x 18.
 - b. Power Wiring and Communication Wiring from Branch Distribution Unit to Indoor Unit (No. x AWG) 3 x 14 / 2 x 18.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. See Engineering Manual for sensible and latent capacities.
5. The indoor unit comes with a dry helium charge.
6. 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%.
7. Must follow installation instructions in the applicable LG installation manual.



KNMAB071A
R32 Multi F Wall Mounted High Efficiency Indoor Unit



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Architect:

GC:

Engr:

Mech:

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(Project Manager)

**KNUAB121A****R32 Multi F Wall Mounted High Efficiency Indoor Unit**

12,000 Btu/h

**Performance:**

Nominal Cooling Capacity (Btu/h)	12,000
Nominal Heating Capacity (Btu/h)	13,600

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

Entering Mixed Air:

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

Electrical:

Power Supply (V/Hz/Ø) ^{1,2}	208-230/60/1
Rated Current (A)	0.4

Unit Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Sound Pressure (H/M/L) (±3 dB[A]) ³	38 / 34 / 29
Primary Filter	Washable Pre-filter
Secondary Filter	3M Micro Dust
Net Weight (lbs.)	19.73
Shipping Weight (lbs.)	22.7

Piping:

Installed Liquid Pipe (in., O.D.)	Ø1/4
Installed Vapor Pipe (in., O.D.)	Ø3/8
Liquid Connection (in., O.D.)	Ø1/4
Vapor Connection (in., O.D.)	Ø3/8
Drain (in., O.D. / I.D.)	27/32, 5/8
Temperature Sensor	Thermistor

Fan:

Type	Cross Flow
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Air Flow H/M/L (CFM)	282 / 233 / 177
Dehumidification (pts./hr.)	2.75

Controls Features:

- Left / right and up / down auto swing
- 24-Hour on/off timer
- Auto operation
- Auto restart
- Group control
- Inverter (variable speed fan)
- Jet cool / Jet heat
- 3M Micro Dust Filter
- Self-cleaning indoor coil
- Sleep mode
- R32 leak detection sensor
- Built-in Wi-Fi via Smart ThinQ app
- Compatible with applicable Single Zone Outdoor Units (see single zone literature for matching system details)

Included Accessories:

- Wireless Remote Controller — AKB76044208

Optional Accessories:

- ☐ Auxiliary Heater Kit - PRARS1
- ☐ 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



KNUAB121A
R32 Multi F Wall Mounted High Efficiency Indoor Unit



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Date:

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Approval Other

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Architect: GC:

Engr: Mech:

Rep:

(Company)

(Project Manager)



KNMAB151A

R32 Multi F Wall Mounted High Efficiency Indoor Unit

14,300 Btu/h



Performance:

Nominal Cooling Capacity (Btu/h)	14,300
Nominal Heating Capacity (Btu/h)	15,600

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 Current (A)	0.4

Piping:

Installed Liquid Pipe (in., O.D.)	Ø1/4
Installed Vapor Pipe (in., O.D.)	Ø3/8
Liquid Connection (in., O.D.)	Ø1/4
Vapor Connection (in., O.D.)	Ø3/8
Drain (in., O.D. / I.D.)	27/32, 5/8
Temperature Sensor	Thermistor

Controls Features:

- Left / right and up / down auto swing
- 24-Hour on/off timer
- Auto operation
- Auto restart
- Group control
- Inverter (variable speed fan)
- Jet cool / Jet heat
- 3M Micro Dust Filter
- Self-cleaning indoor coil
- Sleep mode
- R32 leak detection sensor
- Built-in Wi-Fi via Smart ThinQ app

Included Accessories:

- Wireless Remote Controller — AKB76044208

Optional Accessories:

- ☐ Auxiliary Heater Kit - PRARS1
- ☐ 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 WB)	57 ~ 77
Heating (°F DB)	59 ~ 81

Unit Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Sound Pressure (H/M/L) (±3 dB[A]) ³	42 / 38 / 32
Primary Filter	Washable Pre-filter
Secondary Filter	3M Micro Dust
Net Weight (lbs.)	19.73
Shipping Weight (lbs.)	22.7

Fan:

Type	Cross Flow
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Air Flow H/M/L (CFM)	314 / 268 / 184
Dehumidification (pts./hr.)	2.80

Notes:

1. Acceptable operating voltage: 187V-253V.
2. 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 x 14 / 2 x 18.
 - b. Power Wiring and Communication Wiring from Branch Distribution Unit to Indoor Unit (No. x AWG) 3 x 14 / 2 x 18.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. See Engineering Manual for sensible and latent capacities.
5. The indoor unit comes with a dry helium charge.
6. 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%.
7. Must follow installation instructions in the applicable LG installation manual.



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KNMAB151A

R32 Multi F Wall Mounted High Efficiency Indoor Unit

14,300 Btu/h

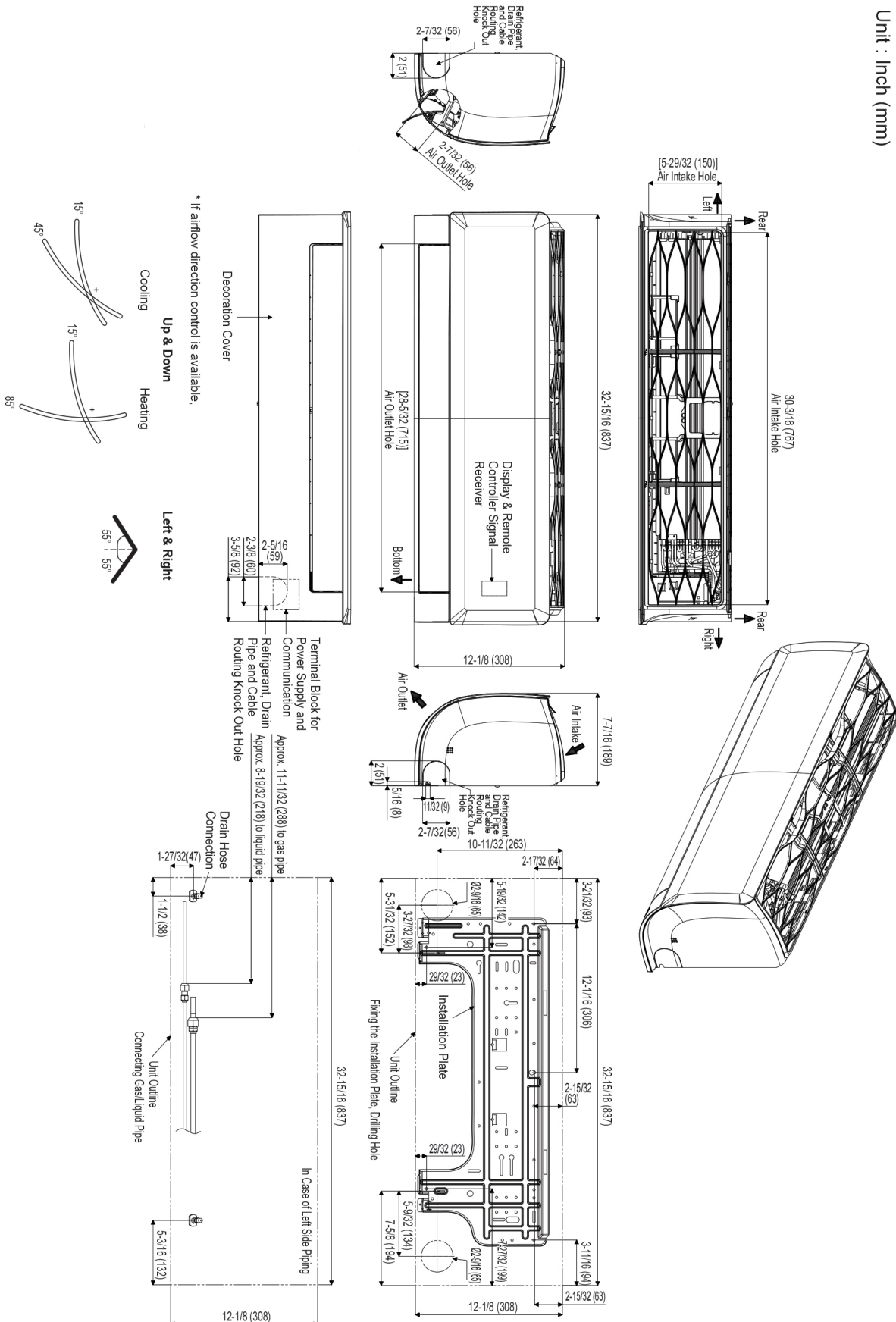


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Unit : Inch (mm)



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Date:

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	Approval	Other

PO No.:

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

PMBD3640ZR

Four-Port Branch Distribution Unit

For Multi F MAX and Multi F MAX with LGRED° Outdoor Units



Performance:

Max. Nominal Port Capacity (Btu/h) (each port)	24,000
Max. Nominal Unit Capacity (Btu/h) (sum of ports)	73,000
Connected Indoor Unit Capacity (Btu/h)	7,000 ~ 24,000
Power Input (W)	97

Electrical:

Power Supply (V/Hz/Ø) ¹	208-230/60/1
Rated Amps (A)	0.4

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

Features:

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

Operating Range:

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

Unit Data:

Net Weight (lbs.)	19.4
Shipping Weight (lbs.)	22.9
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 x 14 / 2 x 18.
 - b. Power Wiring and Communication Wiring from BDU to IDU (No. x AWG) 3 x 14 / 2 x 18.
3. 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.



