

Job Name/Location:

Tag No:

Date:

For: ☐ File ☐ Resubmit

PO No.:

☐ Approval ☐ Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**KUMXB301A****R32 Multi F Outdoor Unit**

Outdoor Unit (ODU) - KUMXB301A

**Performance:**

|                                           |                      |
|-------------------------------------------|----------------------|
| Cooling Capacity (Min.-Rated-Max., Btu/h) | 8,400~30,000~36,000  |
| Heating Capacity (Min.-Rated-Max., Btu/h) | 10,080~32,000~38,400 |
| Max. Heating Capacity at 17°F (Btu/h)     | 27,200               |
| Max. Heating Capacity at 5°F (Btu/h)      | 24,000               |
| Max. Heating Capacity at -4°F (Btu/h)     | 20,400               |
| Cooling COP @95°F (Rated)                 | 3.81                 |
| Heating COP @47°F (Rated)                 | 4.00                 |

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) <sup>1,2</sup> | 208-230V, 60, 1 |
| MOP (A)                              | 25              |
| MCA (A)                              | 19.0            |
| Cooling Rated Amps (A)               | 14.15           |
| Heating Rated Amps (A)               | 14.15           |
| Compressor (A)                       | 13.5            |
| Fan Motor (A)                        | 0.65            |
| Locked Rotor Amps (A)                | 19.0            |

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

**Piping:**

|                                             |            |
|---------------------------------------------|------------|
| Refrigerant Charge (lbs.)                   | 4.85       |
| Liquid Line Connection (in., O.D.)          | 1/4 x 4    |
| Vapor Line Connection (in., O.D.)           | 3/8 x 4    |
| Maximum Total Piping <sup>3</sup> (ft.)     | 246.1      |
| Min. / Max. ODU to IDU Piping (ft.)         | 9.8 / 82.0 |
| Piping Length (no add'l refrigerant, ft.)   | 123        |
| Additional Refrigerant Charge (oz. / ft.)   | 0.22       |
| Maximum Elevation between ODU and IDU (ft.) | 49.2       |
| Maximum Elevation between IDU and IDU (ft.) | 24.6       |

ODU = Outdoor Unit

IDU = Indoor Unit

**Features:**

- Auto operation / Auto restart
- Inverter (variable speed compressor)
- Integrated central control connection
- Defrost / Deicing
- Restart delay (three [3] minutes)
- Self diagnosis
- Soft start
- Low ambient cooling down to 14°F (-4°F with Wind Baffle Kit)

**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 Apple Inc.)

- ☐ LG Monitoring View (LGMV) for Computers - PRCTILO
- ☐ Drain Pan Heater - PQSH1200
- ☐ Low Ambient Wind Baffle Kit - ZLABGP04B

**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.

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:**

|                 |           |
|-----------------|-----------|
| Cooling (°F DB) | 14 to 118 |
| Heating (°F WB) | -4 to +64 |

**Unit Data:**

|                                                              |             |
|--------------------------------------------------------------|-------------|
| Refrigerant Type                                             | R32         |
| Refrigerant Control                                          | EEV         |
| Sound Pressure (Cool / Heat) ±1 dB(A) <sup>4</sup>           | 51 / 54     |
| Net / Shipping Weight (lbs.)                                 | 140 / 156.5 |
| Power Wiring from ODU to IDU (No x AWG) <sup>2</sup>         | 3 x 14      |
| Communication Wiring from ODU to IDU (No x AWG) <sup>2</sup> | 2 x 18      |
| Heat Exchanger Coating                                       | Gold Fin™   |
| Minimum No. of Indoor Units                                  | 2           |
| Maximum No. of Indoor Units                                  | 4           |

**Compressor:**

|            |             |
|------------|-------------|
| Type       | Twin Rotary |
| Quantity   | 1           |
| Oil / Type | FW68D       |

**Fan:**

|                         |                                       |
|-------------------------|---------------------------------------|
| Type                    | Axial                                 |
| Quantity                | 1                                     |
| Motor / Drive           | Brushless Digitally Controlled/Direct |
| Max. Airflow Rate (CFM) | 2,295                                 |

**Notes:**

1. Acceptable operating voltage: 187V - 253V.
2. 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 Outdoor Unit (No. x AWG): 3 x 14 for 18k and 24k; 3 x 12 for 30k and 36k.
  - b. Power Wiring and Communication Wiring from Outdoor Unit to Indoor Unit (No. x AWG) 3 x 14 / 2 x 18.
3. Piping lengths are equivalent.
4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
5. This data is rated 0 ft. above sea level, with 0 ft. level difference between outdoor and indoor units, and the following refrigerant pipe lengths:
  - KUMXB181A: 16.4 ft. x 2 = 32.8 ft.
  - KUMXB241A: 16.4 ft. x 3 = 49.2 ft.
  - KUMXB301A: 16.4 ft. x 4 = 65.6 ft.
  - KUMXB361A: 16.4 ft. x 4 = 65.6 ft.
6. All capacities are net with a combination ratio between 95 - 105%.
7. Must follow installation instructions in the applicable LG installation manual.
8. Refer to the Combination Data Manual for combination capacity tables.
9. See the Performance Data Manual for sensible and latent capacities.



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](http://www.energystar.gov).  
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# KUMXB301A

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