

Job Name/Location:

Tag No:

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

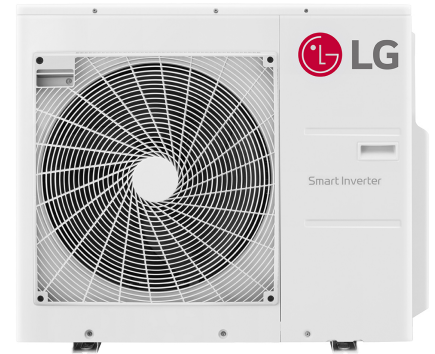
Rep:

(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)                 | 4.01                 |

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 - ZLABGP04A

**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).  
ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.)

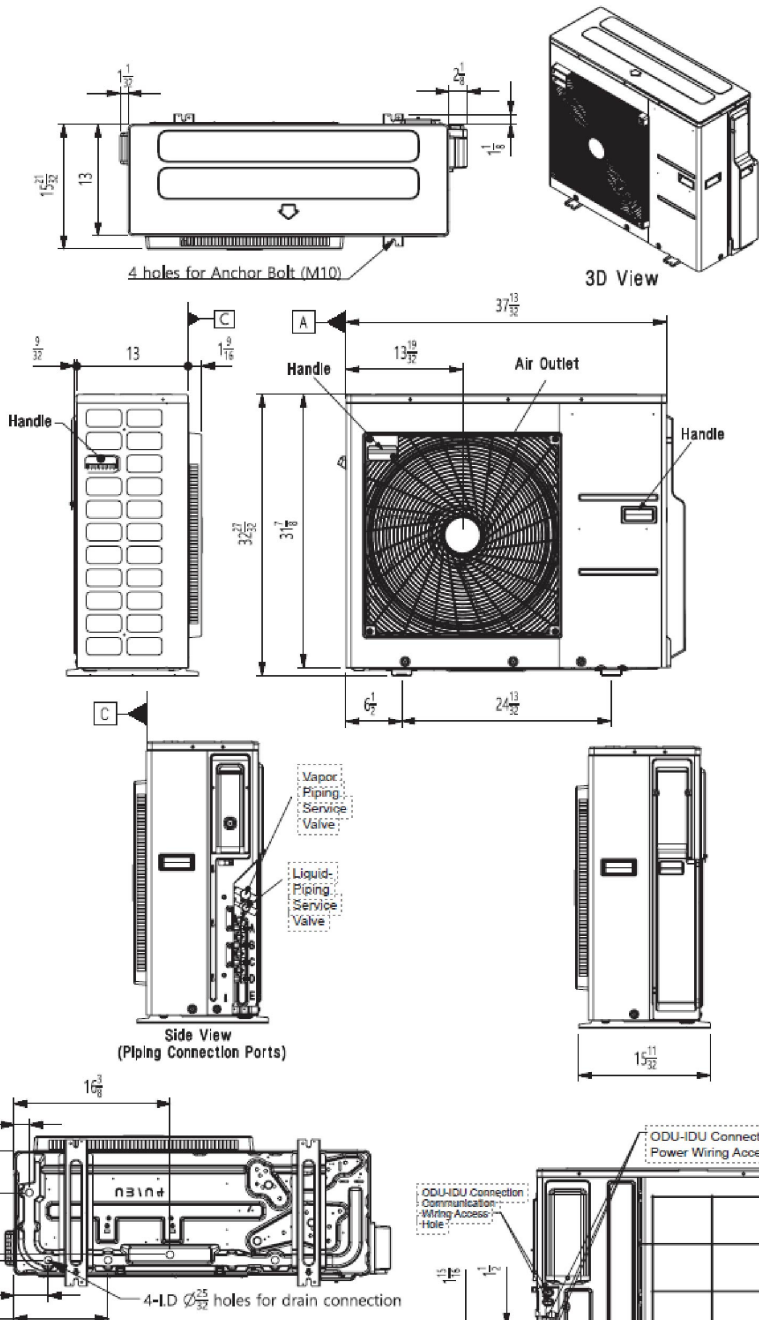
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Page 1 of 2

**KUMXB301A**  
**R32 Multi F Outdoor Unit**  
Outdoor Unit (ODU) - KUMXB301A



Tag No.: \_\_\_\_\_  
Date: \_\_\_\_\_  
PO No.: \_\_\_\_\_



**Symbols**

→ Piping Direction  
▶ Datum line

- Notes:**
1. Unit must be installed in compliance with the installation manual.
  2. Unit must be grounded in accordance with the local or state regulations and applicable national codes.
  3. All field-supplied electrical components and materials must comply with the local, state, and national codes.
  4. Electrical characteristics must be considered for electrical work and design. The capacity of power cable and circuit breaker for the outdoor unit must follow local, state, national, and manufacturer requirements.

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(Project Manager)



**KNUAB091A**

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

9,000 Btu/h



#### Performance:

|                                  |        |
|----------------------------------|--------|
| Nominal Cooling Capacity (Btu/h) | 9,000  |
| Nominal Heating Capacity (Btu/h) | 10,900 |

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> | 208-230/60/1 |
| 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
- 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

#### 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]) <sup>3</sup> | 36 / 32 / 27        |
| 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)        | 268 / 218 / 169                       |
| Dehumidification (pts./hr.) | 2.70                                  |

#### 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.



**KNUAB091A**  
R32 Multi F Wall Mounted High Efficiency Indoor Unit



PO No.: \_\_\_\_\_

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Approval Other

PO No.:

Architect: GC:

Engr: Mech:

Rep:

(Company)

(Project Manager)



**KNMAB241A**

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

24,000 Btu/h



### Performance:

|                                  |        |
|----------------------------------|--------|
| Nominal Cooling Capacity (Btu/h) | 24,000 |
| Nominal Heating Capacity (Btu/h) | 25,600 |

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) <sup>1,2</sup> | 208-230/60/1 |
| Rated Current (A)                    | 0.4          |

### Piping:

|                                   |            |
|-----------------------------------|------------|
| Installed Liquid Pipe (in., O.D.) | Ø1/4       |
| Installed Vapor Pipe (in., O.D.)  | Ø1/2       |
| Liquid Connection (in., O.D.)     | Ø1/4       |
| Vapor Connection (in., O.D.)      | Ø1/2       |
| 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]) <sup>3</sup> | 46 / 41 / 36        |
| Primary Filter                                 | Washable Pre-filter |
| Secondary Filter                               | 3M Micro Dust       |
| Net Weight (lbs.)                              | 26.5                |
| Shipping Weight (lbs.)                         | 30.0                |

### Fan:

|                             |                                       |
|-----------------------------|---------------------------------------|
| Type                        | Cross Flow                            |
| Quantity                    | 1                                     |
| Motor/Drive                 | Brushless Digitally Controlled/Direct |
| Air Flow H/M/L (CFM)        | 597 / 452 / 367                       |
| Dehumidification (pts./hr.) | 5.55                                  |

### 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.
8. The 24k IDU includes a socket adapter for vapor refrigerant pipe connections.





**KNMAB241A**  
R32 Multi F Wall Mounted High Efficiency Indoor Unit  
24,000 Btu/h



PO No.: \_\_\_\_\_

Unit : Inch (mm)

**Front View:**

- Top: [36-53/2 (918)] Air Intake Hole, [8-11/16 (170)] Air Intake Hole
- Bottom: [34-11/32 (872)] Air Outlet Hole
- Width: 39-9/32 (998)
- Height: 13-19/32 (345)

**Side View:**

- Top: 8-9/32 (210) Air Intake
- Bottom: 7/16 (11) Air Outlet
- Width: 11-13/16 (300)
- Height: 2-3/8 (60)

**Top View:**

- Left: 1-11/16 (373)
- Right: 5-13/32 (137)
- Front: 14-11/16 (373)
- Back: 13-19/32 (345)
- Width: 39-9/32 (998)
- Height: 2-3/32 (63)
- Installation Plate: 1-1/16 (27)
- Unit Outline: 1-1/16 (27)
- Fixing the Installation Plate, Drilling Hole: 5-29/32 (150)

**Internal Components:**

- Refrigerant, Drain Pipe and Cable Routing Knock Out Hole
- Display & Remote Controller Signal Receiver
- Terminal Block for Power Supply and Communication
- Refrigerant, Drain Pipe and Cable Routing Knock Out Hole
- Decorative Cover

**Dimensions and Spacing:**

- 2-3/8 (60)
- 2-7/32 (56)
- 2-1/4 (57)
- 3-11/32 (90)
- 2-15/32 (63)
- 1-15/32 (37)
- 6-15/32 (164)
- 13-19/32 (345)
- 39-9/32 (998)

**Notes:**

- \* If airflow direction control is available.
- In case of Left Side Piping
- Unit Outline
- Connecting Gas/Liquid Pipe
- Approx. 9-7/16 (240) to gas pipe
- Approx. 6-5/16 (160) to liquid pipe
- Drain Hose Connection

**Airflow Direction Control:**

- Cooling: 15°, 45°, 85°
- Heating: 20°, 50°, 50°