

Job Name/Location: \_\_\_\_\_

Tag No: \_\_\_\_\_

Date: \_\_\_\_\_

For:	File	Resubmit
	Approval	Other _____

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

Architect: \_\_\_\_\_ GC: \_\_\_\_\_

Engr: \_\_\_\_\_ Mech: \_\_\_\_\_

Rep: \_\_\_\_\_  
(Company) (Project Manager)



**KUMXB181A**  
**R32 Multi F Outdoor Unit**  
 Outdoor Unit (ODU) - KUMXB181A

**Performance:**

Cooling Capacity (Min.-Rated-Max., Btu/h)	8,400~18,000~21,600
Heating Capacity (Min.-Rated-Max., Btu/h)	10,080~22,000~25,000
Max. Heating Capacity at 17°F (Btu/h)	20,200
Max. Heating Capacity at 5°F (Btu/h)	17,700
Max. Heating Capacity at -4°F (Btu/h)	14,800
Cooling COP @95°F (Rated)	3.97
Heating COP @47°F (Rated)	3.59

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)	20
MCA (A)	16.1
Cooling Rated Amps (A)	12.33
Heating Rated Amps (A)	12.33
Compressor (A)	12
Fan Motor (A)	0.33
Locked Rotor Amps (A)	16.0

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

**Piping:**

Refrigerant Charge (lbs.)	3.08
Liquid Line Connection (in., O.D.)	1/4 x 2
Vapor Line Connection (in., O.D.)	3/8 x 2
Maximum Total Piping <sup>3</sup> (ft.)	164
Min. / Max. ODU to IDU Piping (ft.)	9.8 / 82.0
Piping Length (no add'l refrigerant, ft.)	98.4
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 Cisco Systems, Inc.)
- LG Monitoring View (LGMV) for Computers - PRCTILO
- Drain Pan Heater - PQSH1203
- Low Ambient Wind Baffle Kit - ZLABGP03A

**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>	49 / 54
Net / Shipping Weight (lbs.)	102.7 / 111.6
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	2

**Compressor:**

Type	Twin Rotary
Quantity	1
Oil / Type	FW68D

**Fan:**

Type	Axial
Quantity	1
Motor / Drive	Brushless Digitally Controlled/Direct
Max. Airflow Rate (CFM)	1,766

**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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