

Job Name/Location:

Tag No.:

Date:

For:	File	Resubmit
	Approval	Other

PO No.:

Architect: GC:

Engr: Mech:

Rep:

(Company)

(Project Manager)

**KSUFA181A****R32 Single-Zone One-Way Ceiling Cassette with LGRED®**

Indoor Unit (IDU) - KNUFB181A, Outdoor Unit (ODU) - KUSXA181A

**Performance:****Cooling:**

Cooling Capacity (Min~Rated~Max, Btu/h)	7,200~18,000 ~23,000
SEER2	20.0
EER2	12.50

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

**Heating:**

Heating Capacity (Min~Rated~Max, Btu/h)	6,500~20,000~24,000
HSPF2	9.5
Max. Heating @ Indoor 70°F DB (Btu/h)	
Outdoor 17°F WB	22,500
Outdoor 5°F WB	17,000
Outdoor -4°F WB	16,000
Outdoor -13°F WB	15,000

HSPF - Heating Seasonal Performance Factor

Heating Nominal Test Conditions:

Cooling Nominal Test Conditions:

Indoor: 80°F DB / 67°F WB

Outdoor: 95°F DB / 75°F WB

Indoor: 70°F DB / 60°F WB

Outdoor: 47°F DB / 43°F WB

**Electrical:**

Power Supply (V/Hz/Ø)	208-230/60/1
MOP (A)	30
MCA (A)	19.1
Cooling Rated Amps (A)	2.2~6.4~12.3
Heating Rated Amps (A)	2.2~8.6~11.4
Compressor (A)	14
Fan Motor (IDU + ODU) (A)	0.58 + 1.6
Cooling Power Input (Min~Rated~Max @95°F) (kW)	0.50~1.440~2.80
Heating Power Input (Min~Rated~Max @47°F) (kW)	0.46~1.955~2.60

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

**Piping:**

Liquid (ODU, in., Connection Size/Pipe Size)	3/8 / 3/8
Vapor (ODU, in., Connection Size/Pipe Size)	5/8 / 5/8
Liquid (IDU, in., Connection Pipe Size)	1/4
Vapor (IDU, in., Connection Pipe Size)	1/2
Additional Refrigerant (oz./ft.)	0.38
Max. Pipe Length (ft.) <sup>2</sup>	164
Piping Length (no add'l refig., ft.)	24.6
Max. Elevation (ft.)	98.4

**Features:**

- Inverter (Variable Speed)
- Ultra-quiet Turbo Fan
- R32 Leak Detection Sensor
- Compressor
- IDU compatible with Multi F ODUs
- Built-in Wi-Fi via Smart ThinQ app
- Internal Condensate Pump
- Auto Restart / Auto Operation
- Jet Cool / Jet Heat

**Included Accessories:**

- Wireless Remote Controller — AKB75735426

**Required Accessories:**

- ☐ Panel (50" x 16-7/32") - PT-UCA

**Optional Accessories:**

- ☐ Auxiliary Heater Kit - PRARH1
- ☐ Single-Port Shutoff Valve - PRHPZ010A
- ☐ R32 Alarm Kit - PLDCAA05
- ☐ Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP04A

**Controller Options:**

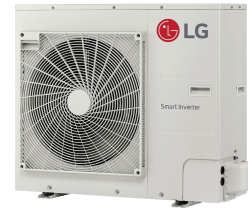
- ☐ MultiSITE™ CRC\* Controllers
- ☐ Simple Remote Controller
- ☐ Standard III Remote Controllers
- ☐ Deluxe Remote Controller
- ☐ Remote Temperature Button Sensor
- ☐ Dry Contacts
- ☐ AC Smart 5 Central Controller
- ☐ LonWorks® Gateway
- ☐ MultiSITE Comm. Mgr.
- ☐ ACP 5 BACnet™ Gateway

BACnet™ is a registered trademark of ASHRAE. LonWorks® is a trademark of Echelon Corporation.

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:****Outdoor Unit:**

Cooling (°F DB)	5 ~ 118
Heating (°F WB)	-13 ~ +64

**Indoor Unit:**

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

**System Data:**

Refrigerant Type	R32
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	4.19
ODU Sound Pressure Max.	
(Cooling / Heating) (±1 dB[A]) <sup>3</sup>	51 / 52
IDU Sound Pressure (Cool / Heat)	
(Max./H/M/L) (±1 dB[A]) <sup>3</sup>	46 / 44 / 40 / 35
ODU Net / Shipping Weight (lbs.)	141.8 / 160.1
IDU Net / Shipping Weight (lbs.)	30.4 / 37
Grille Net / Shipping Weight (lbs.)	10.8 / 13.9
Heat Exchanger Coating	GoldFin™

**Fan:**

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cool/Heat)	4 / 5 / 5
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
Max. ODU Air Volume (CFM)	2,048
IDU Air Flow (CFM Max./H/M/L)	512 / 477 / 406 / 355
Dehumidification (pts./hr.)	4.9

**Notes:**

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. 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 12 for 18k.
  - b. Power Wiring and Communication Wiring from Outdoor Unit to Indoor Unit (No. x AWG) 3 x 14 / 2 x 18.
5. This unit comes with a dry helium charge.
6. Nominal data is rated 0 ft. above sea level, with 25 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
7. Must follow installation instructions in the applicable LG installation manual.
8. Multi-compatible IDUs include socket adapters for refrigerant pipe connection with Single Zone systems.

**LGRED®**

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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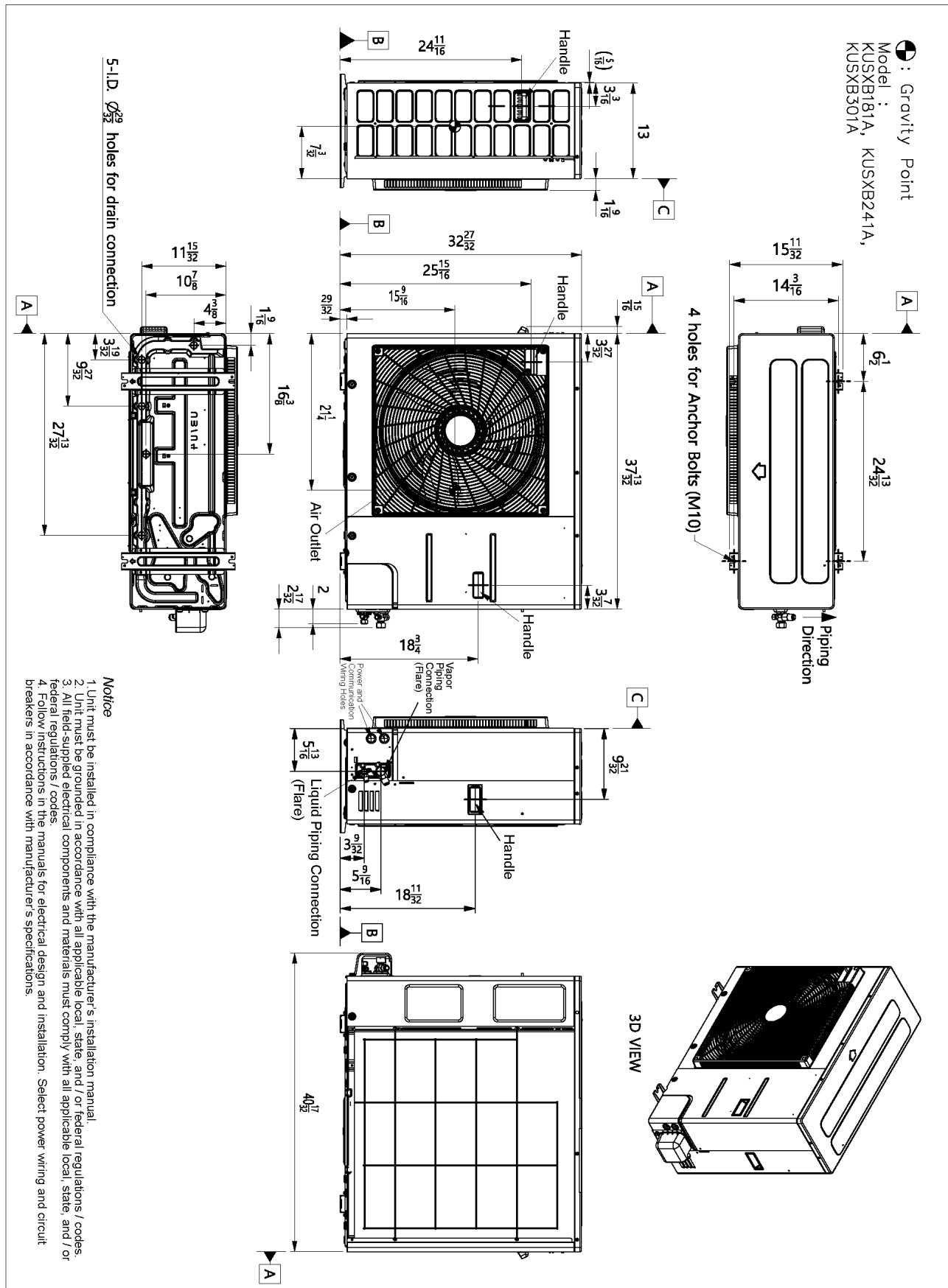
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