



KSSLB481A Single
Zone Multi Position
Air Handling Unit



LG KSSLB481A Single Zone Multi Position Air Handling Unit Owner's Manual

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LG KSSLB481A Single Zone Multi Position Air Handling Unit



Performance

Cooling:

- Cooling Capacity (Min~Rated~Max, Btu/h) 18,000 ~ 45,500 ~ 53,000
- SEER2 18.00
- EER2 11.70

SEER – Seasonal Energy Efficiency Ratio EER – Energy Efficiency Ratio

Heating:

- Heating Capacity (Min~Rated~Max, Btu/h) 19,000 ~ 50,000 ~ 54,000
- HSPF2 9.40
- **Max. Heating @ Indoor 70°F DB (Btu/h)**
 - Outdoor 17°F WB 43,000
 - Outdoor 5°F WB 38,500
 - Outdoor -4°F WB 36,000

HSPF – Heating Seasonal Performance Factor

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 ¹ /Hz/Ø) | 208-230/60/1 |
| MOP (A) | 40 |
| MCA (A) | 32 |
| Cooling / Heating Rated Amps (A) | 17.1 / 17.6 |
| Compressor (A) | 22 |
| Fan Motor (IDU + ODU) (A) | 3.4 + (1.6 x 2) |
| Cooling Power Input (Min~Rated~Max, kW) | 1.40 ~ 3.89 ~ 6.00 |
| Heating Power Input (Min~Rated~Max, kW) | 1.50 ~ 4.00 ~ 5.39 |
| Locked Rotor Amps (A) | 22 |

MOP – Maximum Overcurrent Protection MCA – Minimum Circuit Ampacity

Piping:

- Installed Liquid Pipe (in., O.D.) 3/8
- Installed Vapor Pipe (in., O.D.) 5/8
- IDU Liquid Connection (in., O.D.) 3/8
- IDU Vapor Connection (in., O.D.) 5/8
- Additional Refrigerant (oz./ft.) 0.43
- Min. / Max. Pipe Length (ft.)² 16.4 / 246
- Piping Length (no add'l refriger., ft.) 24.6
- Max. Elevation (ft.) 98.4

Controls Features

- Inverter (Variable Speed Compressor)
- Hot Start
- Self Diagnosis
- Soft Dry Operation
- Auto Changeover
- R32 Leak Detection Sensor
- Child Lock
- Auto Operation
- Auto Restart
- Sleep Mode
- Timer (on/off/weekly)
- Two Thermistor Control
- Optional Wi-Fi Control
- ESP Control

Standard Features

Access Panel for Field Supplied Air Filter – 20 x 20 x 1

Optional Accessories:

- Auxillary Heater Kit - PRARH1
- Wi-Fi Module – PWFMD200
- Single Port Shutoff Valve – PRHPZ010A
- ODU Base Pan Heater – PQSH1200
- Downflow Conversion Kit – PNDFA0
- Electric Heat Kits – ANEHxx3Cx³

Controller Options

- Wireless Remote Controller⁴
- MultiSITE™ CRC Controllers
- Simple Remote Controller
- Standard III Remote Controllers
- Remote Temperature Button Sensor
- Dry Contacts
- AC Smart 5 Central Controller
- LonWorks® Gateway
- MultiSITE Comm. Mgr.
- ACP 5 BACnet™ Gateway

Operating Range

Outdoor Unit:

- Cooling (°F DB) 5 ~ 118
- Heating (°F WB) -4 ~ +64

Indoor Unit:

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

System Data:

- Refrigerant Type R32
- Refrigerant Control EEV
- Refrigerant Charge (oz) 106
- ODU Sound Pressure (Cooling / Heating) (±1 dB[A])⁵ 54 / 56
- IDU Sound Pressure (H/M/L) (±1 dB[A])⁵ 42 / 39 / 37
- ODU Net / Shipping Weight (lbs.) 190.2 / 214.3
- IDU Net / Shipping Weight (lbs.) 146 / 160

- Heat Exchanger Coating GoldFin™

Fan:

| | |
|----------------------------------------------|---------------------------------------|
| • ODU Type | Propeller |
| • IDU Type | Sirocco |
| • Fan Speeds (Fan/Cool/Heat) | 3 / 3 / 3 |
| • Fan Quantity (ODU + IDU) | 2 + 1 |
| • Motor/Drive | Brushless Digitally Controlled/Direct |
| • Maximum ODU Air Volume (CFM) | 1,942 x 2 |
| • IDU Air Flow (CFM Max. H/M/L) | 1,400 / 1,200 / 1,070 |
| • Default ESP (in wg) | 0.4 |
| • Minimum ESP/Fan Setting Value ⁶ | 0.1 / 61 |
| • Maximum ESP/Fan Setting Value ⁶ | 1.0 / 120 |
| • Dehumidification (pts./hr.) | 8.06 |

Notes:

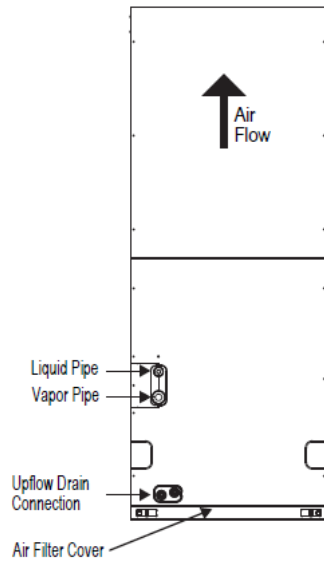
1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Refer to the Engineering Manual for available auxiliary heater capacities.
4. Requires an LG wall controller because Multi-Position AHU do not have an infrared receiver.
5. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
6. Maximum static pressure may result in reduced airflow (CFM).
7. 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 ODU: (No. x AWG): 3 x 12 for 12k, 18k, and 24k; 3 x 10 for 30k, 36k, 42k, 48k and 60k.
 - b. Power Wiring and Communication Wiring from Outdoor Unit to Indoor Unit: (No. x AWG) 3 x 14 / 2 x 18.
8. See Engineering Manual for sensible and latent capacities.
9. Power wiring cable size must comply with the applicable local and national code.
10. The indoor unit comes with a dry helium charge.
11. This data is rated 0 ft. above sea level, with 24.6 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
12. Must follow installation instructions in the applicable LG installation manual.
13. If the optional low ambient wind baffle is used, one wind baffle is required for each ODU fan.

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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 trademarks owned by the U.S. Environmental Protection Agency.)

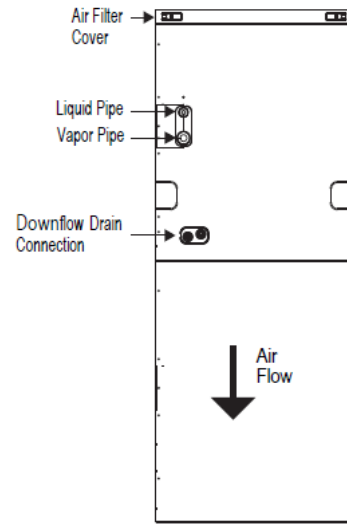
Factory Configurations

Vertical Upflow



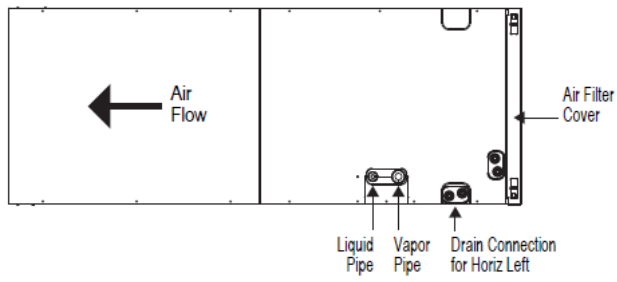
Field Configurations

Vertical Downflow

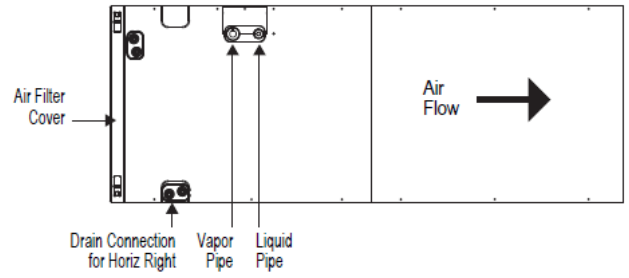


Requires vertical downflow kit

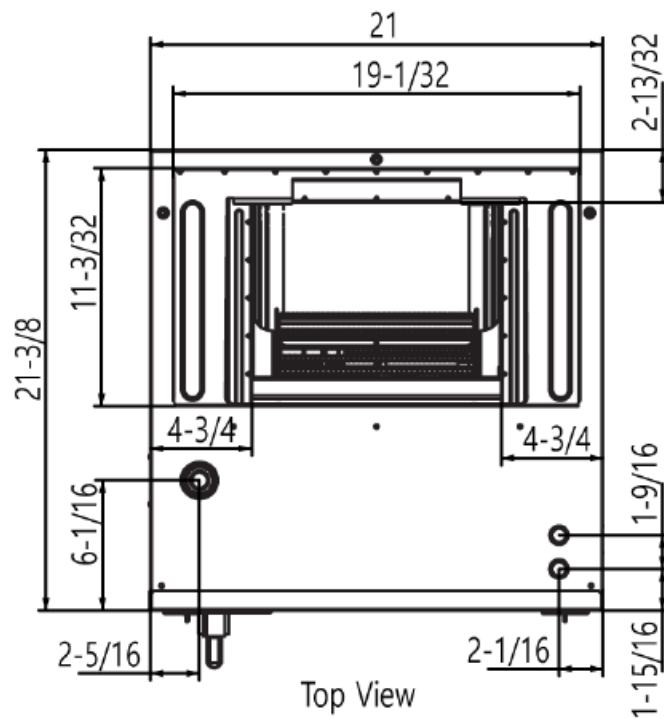
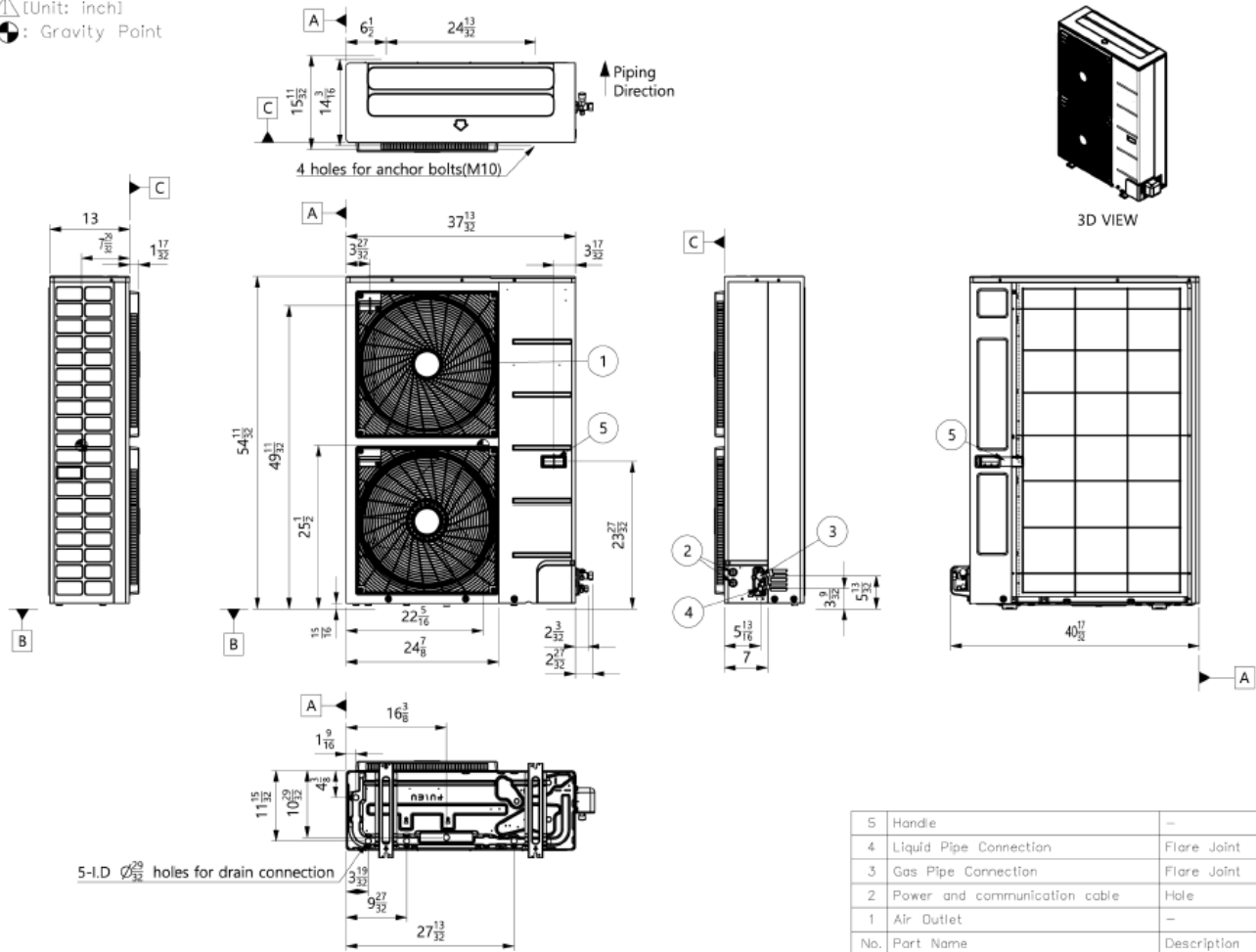
Horizontal Left



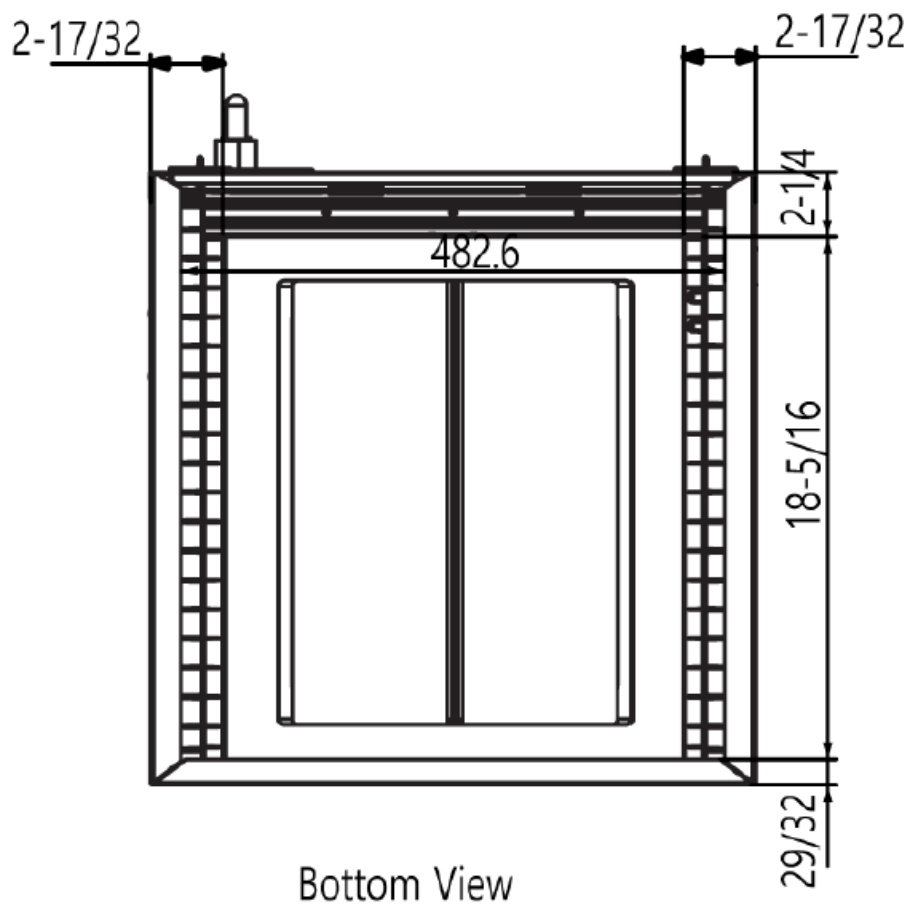
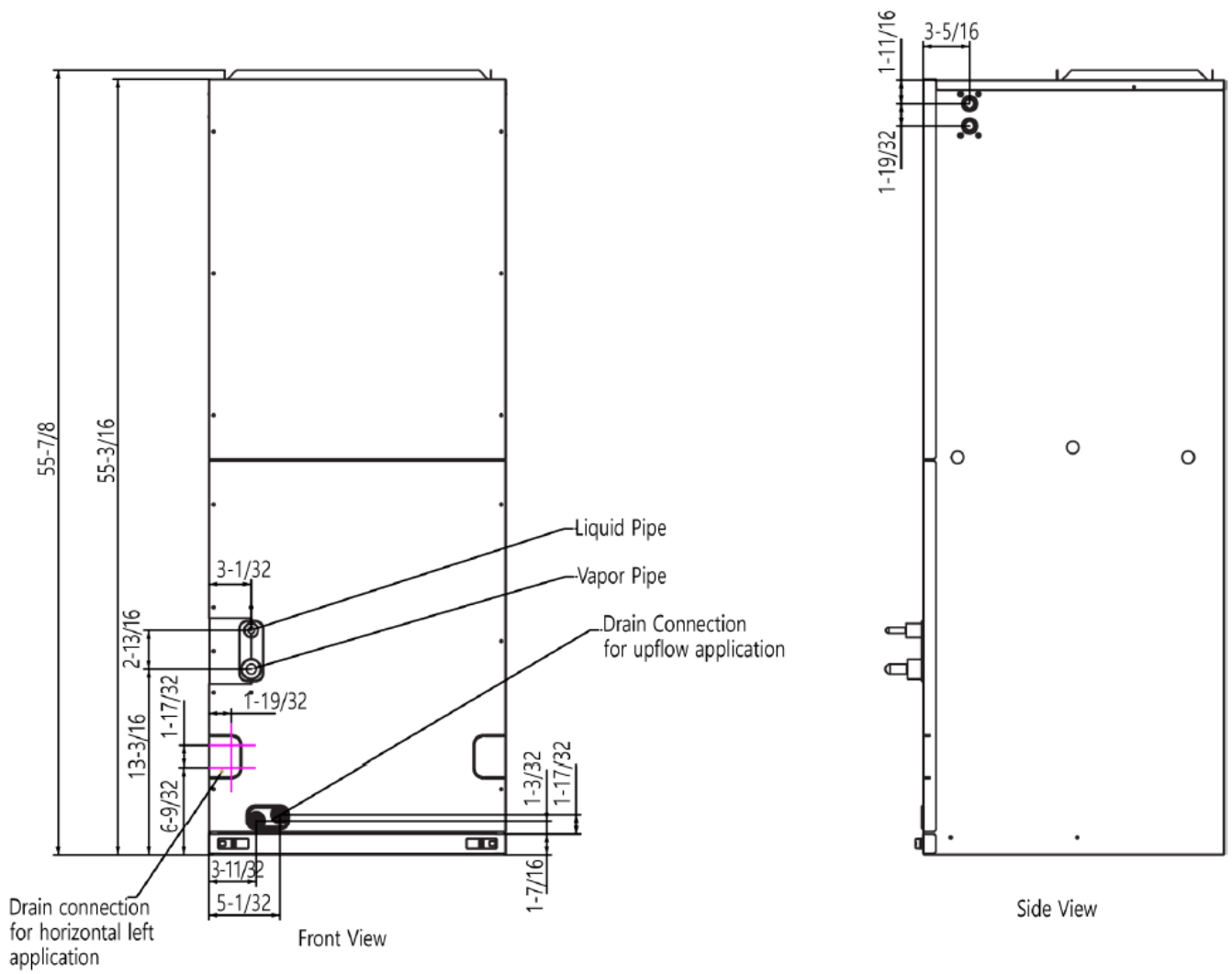
Horizontal Right



[Unit: inch]
 Gravity Point




Top View



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Documents / Resources

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|  | <p>LG KSSLB481A Single Zone Multi Position Air Handling Unit [pdf] Owner's Manual KSSLB481A, KUSXB481A, KNSLB481A, KSSLB481A Single Zone Multi Position Air Handling Unit, KSSLB481A, Single Zone Multi Position Air Handling Unit, Multi Position Air Handling Unit, Air Handling Unit, Unit</p> |
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References

- [User Manual](#)

Manuals+. [Privacy Policy](#)

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