

LG KSSLB121A Single Zone Multi-Position Air Handling Unit Owner's Manual

Contents

1 KSSLB121A Single Zone Multi-Position Air Handling Unit

1.1 KSSLB121A R32 Single Zone Multi-Position Air Handling Unit Outdoor Unit (ODU) – KUSXB121A, Indoor Unit (IDU) – KNSLB121A

1.2 Performance: Cooling:

1.3 Heating:

1.4 Electrical:

1.5 Piping:

1.6 Controls Features:

1.7 Standard Features:

1.8 Optional Accessories:

1.9 Controller Options:

1.10 Operating Range: Outdoor Unit:

1.11 Indoor Unit:

1.12 System Data:

1.13 Fan:

1.14 Notes:

1.15 KSSLB121A R32 Single Zone Multi-Position Air Handling Unit Outdoor Unit (ODU) – KUSXB121A, Indoor Unit (IDU) – KNSLB121A

2 Documents / Resources

2.1 References

3 Related Posts

KSSLB121A Single Zone Multi-Position Air Handling Unit

Job Name/Location:

Date:

PO No.:

Architect: GC:

Engr: Mech:

Rep:

(Company) (Project Manager)



KSSLB121A
R32 Single Zone Multi-Position Air Handling Unit
Outdoor Unit (ODU) – KUSXB121A, Indoor Unit (IDU) – KNSLB121A

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max, Btu/h) 4,200 ~ 12,000 ~ 15,000

SEER2 16.20

EER2 12.20

SEER – Seasonal Energy Efficiency Ratio EER – Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max, Btu/h) 6,000 ~ 15,000 ~ 18,000

HSPF2 9.50

Max. Heating @ Indoor 70°F DB (Btu/h)

Outdoor 17°F WB 13,100

Outdoor 5°F WB 10,500

Outdoor -4°F WB 10,000

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 (V¹/Hz/Ø) 208-230/60/1

MOP (A) 15

MCA (A) 13.4

Cooling / Heating Rated Amps (A) 4.3 / 5.1

Compressor (A) 9

Fan Motor (IDU + ODU) (A) 2.8 + 0.4

Cooling Power Input (Min~Rated~Max, kW) 0.45 ~ 0.99 ~ 1.50

Heating Power Input (Min~Rated~Max, kW) 0.40 ~ 1.15 ~ 1.93

Locked Rotor Amps (A) 9.0

MOP – Maximum Overcurrent Protection MCA – Minimum Circuit Ampacity

Piping:

Installed Liquid Pipe (in., O.D.) 1/4

Installed Vapor Pipe (in., O.D.) 3/8

IDU Liquid Connection (in., O.D.) 1/4

IDU Vapor Connection (in., O.D.) 3/8

Additional Refrigerant (oz./ft.) 0.22

Min. / Max. Pipe Length (ft.)² 16.4 / 65.6

Piping Length (no add'l refig., ft.) 24.6

Max. Elevation (ft.) 49.2

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 – 16 x 20 x 1

Optional Accessories:

- ☐ Auxillary Heater Kit - PRARH1
- ☐ Wi-Fi Module – PWFMD200
- ☐ Single Port Shutoff Valve – PRHPZ010A
- ☐ ODU Base Pan Heater – PQSH1202
- ☐ 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

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) -4 ~ +64

Indoor Unit:

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

System Data:

Refrigerant Type R32
Refrigerant Control EEV
Refrigerant Charge (oz) 38.8
ODU Sound Pressure
(Cooling / Heating) (± 1 dB[A])⁵ 38.8
IDU Sound Pressure
(H/M/L) (± 1 dB[A])⁵ 34 / 31 / 28
ODU Net / Shipping Weight (lbs.) 75.0 / 79.4
IDU Net / Shipping Weight (lbs.) 116 / 129
Heat Exchanger Coating GoldFin™

Fan:

ODU Type Propeller
IDU Type Sirocco
Fan Speeds (Fan/Cool/Heat) 3 / 3 / 3
Fan Quantity (ODU + IDU) 1 + 1
Motor/Drive Brushless Digitally Controlled/Direct
Maximum ODU Air Volume (CFM) 988
IDU Air Flow (CFM Max. H/M/L) 500 / 460 / 420
Default ESP (in wg) 0.4
Minimum ESP/Fan Setting Value⁶ Constant Flow
Maximum ESP/Fan Setting Value⁶ Constant Flow
Dehumidification (pts./hr.) 1.27

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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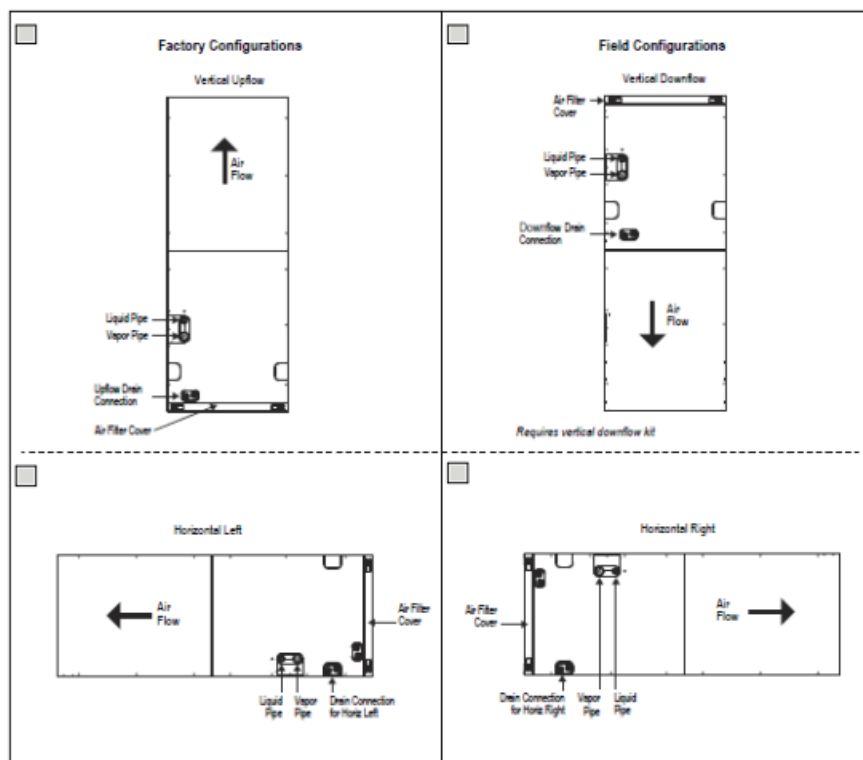
Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov. (ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.)

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KSSLB121A

R32 Single Zone Multi-Position Air Handling Unit

Outdoor Unit (ODU) – KUSXB121A, Indoor Unit (IDU) – KNSLB121A



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Documents / Resources



[LG KSSLB121A Single Zone Multi-Position Air Handling Unit](#) [pdf] Owner's Manual
KUSXB121A, KNSLB121A, KSSLB121A Single Zone Multi-Position Air Handling Unit, KSSLB121A, Single Zone Multi-Position Air Handling Unit, Multi-Position Air Handling Unit, Air Handling Unit, Handling Unit, Unit

References

- [Homepage](#) | [ENERGY STAR](#)
- [User Manual](#)

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