

Job Name/Location:

Tag No.:

Date:

For: File Resubmit
Approval Other

PO No.:

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

KSUAK121A

R32 Single Zone Art Cool™ Mirror Wall Mounted

Outdoor Unit (ODU) - KUSAB121A, Indoor Unit (IDU) - KNUAK121A

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max, Btu/h)	1,023 ~ 12,000 ~ 14,100
SEER2	22.5
EER2	12.80

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max, Btu/h)	1,023 ~ 13,600 ~ 19,040
HSPF2	10.5
Max. Heating @ Indoor 70°F DB (Btu/h)	
Outdoor 17°F WB	12,400 (91%)
Outdoor 5°F WB	10,000 (74%)
Outdoor -4°F WB	8,010 (59%)

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/Hz/Ø)	208-230 / 60 / 1
MOP (A)	15
MCA (A)	12
Cooling / Heating Rated Amps (A)	8.7
Compressor (A)	8.3
Fan Motor (IDU + ODU) (A)	0.4 + 0.4
Cooling Power Input (Min~Rated~Max, kW)	0.20 ~ 0.93 ~ 1.60
Heating Power Input (Min~Rated~Max, kW)	0.19 ~ 1.04 ~ 1.97
Locked Rotor Amps (A)	9.0

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

Installed Liquid Pipe (in., O.D.)	1/4 Flare
Installed Vapor Pipe (in., O.D.)	3/8 Flare
IDU Liquid Connection (in., O.D.)	1/4 Flare
IDU Vapor Connection (in., O.D.)	3/8 Flare
Additional Refrigerant (oz./ft.)	0.16
Min. / Max. Pipe Length (ft.) ²	9.8 / 82
Piping Length (no add'l refriger., ft.)	41
Max. Elevation (ft.)	49.2

Features:

- Inverter (Variable Speed Compressor)
- 24-Hour on/off timer
- 4-Way auto swing
- Sleep Mode
- Jet Cool/Jet Heat
- Auto Restart
- Auto Changeover
- Built-in Drain pan heater
- Built-in Wi-Fi via ThinQ app
- Smart Diagnosis
- 3M Micro Filter
- IDU compatible with Multi F ODUs
- Low ambient cooling down to 14°F (0°F with Wind Baffle Kit)
- Self-cleaning indoor coil
- IDU R32 leak detection sensor

Included Accessories:

- Wireless Remote Controller — AKB76044208

Optional Accessories:

- PI-485 - PMNFP14A1
- R32 Alarm Kit - PLDCAA05
- Low Ambient Wind Baffle (Cooling to 0°F) - ZLABGP01A

Controller Options:

- MultiSITE™ CRC* Controllers
- Standard III Remote Controllers
- Dry Contacts
- AC Smart 5 Central Controller
- LonWorks® Gateway
- MultiSITE Comm. Mgr.
- AC Smart 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)	14 ~ 118
Heating (°F WB)	-4 ~ +65

Indoor Unit:

Cooling (°F WB)	53 ~ 75
Heating (°F DB)	60 ~ 86

System Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	1.81
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	47 / 51
IDU Sound Pressure (Cooling (H/M/L/SL) (±1 dB[A]) ³	41 / 35 / 25 / 21
Heating (H/M/L) (±1 dB[A]) ³	41 / 35 / 26
ODU Net / Shipping Weight (lbs.)	68.8 / 75.6
IDU Net / Shipping Weight (lbs.)	22.7 / 24.5
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cool/Heat)	6 / 6 / 6
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled / Direct
Maximum ODU Air Volume (CFM)	1.165
IDU Air Flow	
Cooling, Max/H/M/L (CFM)	459 / 388 / 318 / 194
Heating, Max/H/M/L (CFM)	459 / 388 / 318 / 229
Dehumidification (pts./hr.)	2.75

Notes:

- Acceptable operating voltage: 187V-253V.
- Piping lengths are equivalent.
- Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
- 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.
 - Power Supply Wiring to ODU: (No. x AWG): 3 x 14 for 9/12k, 3 x 12 for 18k units.
 - Power Wiring / Communication Wiring from Outdoor Unit to Indoor Unit: (No. x AWG) 3 x 14 / 2 x 18.
- See Engineering Manual for sensible and latent capacities.
- Power wiring cable size must comply with the applicable local and national code.
- The indoor unit comes with a dry helium charge.
- 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.
- Must follow installation instructions in the applicable LG installation manual.
- Multi-compatible 18k IDUs include socket adapters for refrigerant pipe connections with Multi F systems.

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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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PO No.:

Technical drawings of the LG LRE180770 outdoor unit, showing dimensions in inches (in) and millimeters (mm).

Front View:

- Overall Width: 30-5/16 (770)
- Overall Height: 15-1/8 (24)
- Top Panel Width: 10-1/2 (267)
- Top Panel Height: 10-29/32 (277)
- Bottom Panel Width: 21-15/32 (545)
- Bottom Panel Height: 15-1/8 (89)
- Condenser Coil Diameter: Ø17-5/16 (440)
- Bottom Panel Depth: 19/32 (15)

Side View:

- Overall Depth: 4-3/16 (106)
- Top Panel Depth: 21-31/32 (558)
- Bottom Panel Depth: 13 (330)
- Bottom Panel Width: 13-29/32 (353)

Top View:

- Overall Width: 30-5/16 (770)
- Overall Depth: 4-3/16 (106)
- Top Panel Width: 10-1/2 (267)
- Top Panel Depth: 10-29/32 (277)
- Bottom Panel Width: 21-15/32 (545)
- Bottom Panel Depth: 15-1/8 (89)
- Condenser Coil Diameter: Ø17-5/16 (440)
- Bottom Panel Depth: 19/32 (15)

Rear View:

- Overall Width: 30-5/16 (770)
- Overall Height: 15-1/8 (24)
- Top Panel Width: 10-1/2 (267)
- Top Panel Height: 10-29/32 (277)
- Bottom Panel Width: 21-15/32 (545)
- Bottom Panel Height: 15-1/8 (89)
- Condenser Coil Diameter: Ø17-5/16 (440)
- Bottom Panel Depth: 19/32 (15)

Isometric View:

- Overall Width: 30-5/16 (770)
- Overall Height: 15-1/8 (24)
- Top Panel Width: 10-1/2 (267)
- Top Panel Height: 10-29/32 (277)
- Bottom Panel Width: 21-15/32 (545)
- Bottom Panel Height: 15-1/8 (89)
- Condenser Coil Diameter: Ø17-5/16 (440)
- Bottom Panel Depth: 19/32 (15)

Drain Hole:

- Drain Hole Size: Ø29/32 (20)

7	Sump Heater	Flare Joint
6	Liquid Pipe Connection	Flare Joint
5	Gas Pipe Connection	Flare Joint
4	Service Valve Cover	
3	Power and Communication Cable Hole	
2	Control Box	
1	Air Outlet	
No	Name	Description

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