

 **LG**  
**KNUDB121A R32 Multi F**  
**2x2 Four Way Ceiling**  
**Cassette Indoor Unit**



# LG KNUDB121A R32 Multi F 2x2 Four Way Ceiling Cassette Indoor Unit Instruction Manual

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**LG KNUDB121A R32 Multi F 2x2 Four Way Ceiling Cassette Indoor Unit**



## Product Usage Instructions

- Ensure proper placement of the indoor unit on the ceiling.
- Connect the liquid and vapor pipes according to the specified sizes.
- Install the required accessories, such as the wireless remote controller and panel.
- Optional accessories like the ventilation flange, auxiliary heater kit, and Wi-Fi module can be added based on requirements.
- The unit comes with a wireless remote controller for easy operation.
- Additional control options include MultiSITETM CRC controllers, simple remote controllers, and more.

## Performance

- Nominal Cooling Capacity (Btu/h) 12,000
- Nominal Heating Capacity (Btu/h) 13,800
- 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) 1,2 208-230/60/1
- Rated Amps (A) 0.25

## Piping

- Installed Liquid Pipe (in., O.D.)  $\varnothing 1/4$
- Installed Vapor Pipe (in., O.D.)  $\varnothing 3/8$

- Liquid Connection (in., O.D.) ø1/4
- Vapor Connection (in., O.D.) ø3/8
- Drain (in., O.D. / I.D.) 1-1/4, 1
- Temperature Sensor Thermistor

## **Controls Features**

- Two thermistor control
- 24-Hour on / off timer
- Auto operation
- Auto restart
- Swirl swing
- Control lock function
- Drain pump
- Group control
- Inverter (variable speed fan)
- Jet cool
- R32 leak detection sensor
- Compatible with accessory Wi-Fi module
- Compatible with applicable Single Zone Outdoor Units (see single zone literature for matching system details)

## **Included Accessories**

- Wireless Remote Controller – PWLSSB21H

## **Required Accessories**

- Panel (24-13/32" x 24-13/32") – PT-QAGW0

## **Optional Accessories**

- Ventilation Flange3 - PTVK430
- Auxiliary Heater Kit - PRARH1
- Wi-Fi Module – PWFMD200
- Single-Port Shutoff Valve – PRHPZ010A

## **Controller Options**

- MultiSITE™ CRC\* Controllers
- Simple Remote Controllers
- Standard III Remote Controllers
- Deluxe Remote Controller
- Remote Temperature Button Sensor
- Dry Contacts

## Entering Mixed Air

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

## Unit Data

- Refrigerant Type R32
- Refrigerant Control EEV
- Sound Pressure (H/M/L) dB(A) 38 / 35 / 32
- Standard Filter 5 Washable
- Net Weight (lbs.) 28.4
- Shipping Weight (lbs.) 34
- Panel Net Weight (lbs.) 6.3
- Panel Shipping Weight (lbs.) 8.6

## Fan

- Type Turbo
- Quantity 1
- Motor/Drive Brushless Digitally Controlled/Direct
- Air Flow H/M/L (CFM) 335 / 283 / 247
- Dehumidification Rate (pts./hr.) 2.5

## Notes

1. Acceptable operating voltage: 187V-253V.
2. The power wiring and the communication wiring from the outdoor unit to the indoor unit, or from the branch distribution 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 Wiring and Communication Wiring from Outdoor Unit to Indoor Unit (No. x AWG) 3 x 14 / 2 x 18.
  - Power Wiring and Communication Wiring from Branch Distribution Unit to Indoor Unit (No. x AWG) 3 x 14 / 2 x 18.
3. Must comply with applicable codes for fire isolation dampers.
4. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
5. Removable Washable Filter size: 14" x 14" x 1".
6. See Engineering Manual for sensible and latent capacities.
7. The indoor unit comes with a dry helium charge.
8. The corresponding refrigerant piping length is in accordance with a standard length of each outdoor unit and the level difference is 0 ft. All capacities are net with a combination ratio between 95 – 105%.
9. Must follow installation instructions in the applicable LG installation manual.



Unit: Inch

**Branch Duct Knockout**




**View A**

**Outside Air Intake Hole**

**Maximum Condensate Lift: 27-9y/16**

**3D VIEW**

No.	Part Name	Description
12	Outside Air Intake Hole	Knock-out type
11	Flexible Drain Hose	Supplied with product
10	Decoration Corner Display Cover	Supplied with panel
9	Decoration Corner Cover	Supplied with panel
8	Decoration Panel (Accessory)	PT-QAGWD
7	Air Outlet	-
6	Air Intake	-
5	Wired remote controller wire routing hole	-
4	Power and Communication cable routing hole	-
3	Drain Pipe Connection	-
2	Liquid Pipe Connection	-
1	Vapor Pipe Connection	-

-  View Direction
-  Datum line
-  Refrigerant/Drain Pipina Direction

1. Unit should be installed in compliance with the installation manual.
2. Unit should be grounded in accordance with the local regulations or applicable national codes.
3. All electrical components and materials to be supplied from the site must comply with the local regulations or

international codes.

## Maintenance

- Regularly clean the washable filters to ensure optimal performance.
- Check for any leaks in the piping system and address them promptly.

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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## FAQ

- **Q: Can I install the unit myself?**
  - **A:** It is recommended to have a professional HVAC technician install the unit to ensure proper setup and functionality.
- **Q: What is the recommended temperature range for operation?**
  - **A:** The unit operates best within the temperature range of 57°F to 77°F for cooling and 59°F to 81°F for heating.

## Documents / Resources

	<a href="#">LG KNUDB121A R32 Multi F 2x2 Four Way Ceiling Cassette Indoor Unit</a> [pdf] Instruction Manual KNUDB121A, KUMXB301A, PWLSSB21H, KNUDB121A R32 Multi F 2x2 Four Way Ceiling Cassette Indoor Unit, KNUDB121A, R32 Multi F 2x2 Four Way Ceiling Cassette Indoor Unit, 2x2 Four Way Ceiling Cassette Indoor Unit, Four Way Ceiling Cassette Indoor Unit, Ceiling Cassette Indoor Unit, Cassette Indoor Unit, Indoor Unit, Unit
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## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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