

Job Name/Location:

Tag No.:

Date:

For:	File	Resubmit
	Approval	Other_____

PO No.:

Architect: _____ GC: _____

Engr: _____ Mech: _____

Rep: _____
(Company) (Project Manager)



KSSCB421A

R32 Single Zone 3x3 Four-Way Ceiling Cassette

Indoor Unit (IDU) - KNSCB421A, Outdoor Unit (ODU) - KUSXB421A

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	16,800~42,000~48,700
SEER2	21.0
EER2	13.2

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	18,800~48,000~49,800
HSPF2	10.8
Max. Heating @ Indoor 70°F DB	41,500
Outdoor 17°F WB	40,000
Outdoor 5°F WB	35,200
Outdoor -4°F WB	

HSPF - Heating Seasonal Performance Factor

Electrical:

Power Supply (V~/Hz/Ø)	208-230/60/1
MOP (A)	40
MCA (A)	32.0
Cooling Rated Amps (A)	26.5
Heating Rated Amps (A)	26.5
Compressor (A)	22.0
Fan Motor (IDU + ODU) (A)	1.3 + (1.6 x 2)
Cooling Power Input (Min~Rated~Max @95°F) (kW)	1.16~3.18~5.50
Heating Power Input (Min~Rated~Max @47°F) (kW)	1.17~3.35~4.93

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Piping:

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

Features:

- Inverter (Variable Speed) Compressor
- Internal Condensate Pump
- Swirl Wind / Jet Cool
- Auto Restart / Auto Changeover
- R32 Leak Detection Sensor
- Ultra-quiet Turbo Fan
- Night Quiet Operation
- Optional Wi-Fi Control

Included Accessories:

- Wireless Remote Controller - PWLSSB21H

Required Accessories:

- Grille Kit - PT-AAGW0

Optional Accessories:

- Premium Panel (incl. Panel PT-AFGW0 + Air Purif. Kit PTAHMP0)-PT-AFGW0S
- Decorative Cover-PTDCA
- Flange³-PTVK430
- Auxiliary Heater Kit-PRARH1
- Wi-Fi Module-PWFMDD200
- Drain Pan Heater-PQSH1200
- Single-Port Shutoff Valve - PRHPZ010A
- Low Ambient Wind Baffle (Cooling operation to -4°F)-ZLABGP04B Requires 2

Controller Options:

- MultiSITE™ CRC* Controllers
- Simple Remote Controller
- Standard III Remote Controllers
- Remote Temperature Button Sensor
- Dry Contacts
- AC Smart 5 Central Controller
- LonWorks® Gateway
- MultiSITE Communication Mgr.
- ACP 5 BACnet® Gateway
- AHU Communication Kit

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 (lbs.)	6.63
IDU Sound Pressure (Max./H/M/L/SL) (±1 dB[A]) ³	46 / 43 / 41
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	54 / 56
ODU Net / Shipping Weight (lbs.)	190.2 / 214.3
IDU Net / Shipping Weight (lbs.)	60.2 / 74.3
Grille Net / Shipping Weight (lbs.)	16 / 21
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Axial
IDU Type	Turbo
Fan Speeds (Fan/Cool/Heat)	4 / 5 / 5
Quantity (ODU + IDU)	2 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Air Flow Rate (CFM)	2 x 1,942
IDU Air Flow (CFM [Max./]H/M/L)	1,130 / 953 / 812
Dehumidification (pts./hr.)	8.4

Notes:

1. Acceptable operating voltage: 187V-253V.
 2. Piping lengths are equivalent.
 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. 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 9k, 12k, 18k, and 24k; 3 x 10 for 30k, 36k, 42k, and 48k.
 - b. Power Wiring and Communication Wiring from Outdoor Unit to Indoor Unit (No. x AWG) 3 x 14 / 2 x 18.
 6. This unit comes with a dry helium charge.
 7. 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.
 8. Must follow installation instructions in the applicable LG installation manual.
- BACnet® is a registered trademark of ASHRAE. LonWorks® is a trademark of Echelon Corporation.



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.)

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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