

Job Name/Location:

Tag No.:

Date:

For:	File	Resubmit
	Approval	Other_____

PO No.:

Architect: \_\_\_\_\_ GC: \_\_\_\_\_

Engr: \_\_\_\_\_ Mech: \_\_\_\_\_

Rep: \_\_\_\_\_  
(Company) (Project Manager)

**LC429HHV**  
Single-Zone 3x3 Four-Way Ceiling Cassette with LGRED°  
Outdoor Unit (ODU) - LUU420HHV, Indoor Unit (IDU) - LCN429HV



**Performance:**

**Cooling:**

Cooling Capacity (Min~Rated~Max, Btu/h)	16,800~42,000~49,000
SEER	19.50
EER	12.80

SEER - Seasonal Energy Efficiency Ratio      EER - Energy Efficiency Ratio

**Heating:**

Heating Capacity (Min~Rated~Max, Btu/h)	18,000~48,000~57,600
HSPF	11.60
Max. Heating @ Indoor 70°F DB (Btu/h)	51,400
Outdoor 17°F WB	48,000
Outdoor 5°F WB	42,970
Outdoor -4°F WB	35,990

HSPF - Heating Seasonal Performance Factor      Heating Nominal Test Conditions:  
Cooling Nominal Test Conditions:      Indoor: 70°F DB / 60°F WB  
Indoor: 80°F DB / 67°F WB      Outdoor: 47°F DB / 43°F WB  
Outdoor: 95°F DB / 75°F WB

**Electrical:**

Power Supply (V~/Hz/Ø)	208-230/60/1
MOP (A)	40
MCA (A)	32
Cooling / Heating Rated Amps (A)	14.6 / 15.1
Compressor (A)	22
Fan Motor (IDU + ODU) (A)	1.3 + (1.6 x 2)
Cooling Power Input (Min~Rated~Max, kW)	0.93~3.28~5.50
Heating Power Input (Min~Rated~Max, kW)	1.17~3.41~5.80
Locked Rotor Amps (A)	33

MOP - Maximum Overcurrent Protection      MCA - Minimum Circuit Ampacity

**Piping:**

Installed Liquid Pipe (in., O.D.)	3/8 Flare
Installed Vapor Pipe (in., O.D.)	5/8 Flare
IDU Liquid Connection (in., O.D.)	3/8 Flare
IDU Vapor Connection (in., O.D.)	5/8 Flare
Additional Refrigerant (oz./ft.)	0.43
Min. / Max. Pipe Length (ft.) <sup>2</sup>	16.4 / 246
Piping Length (no add'l refig., ft.)	24.9
Max. Elevation (ft.)	98.4

**Features:**

- Inverter (Variable Speed Compressor)
- Internal Condensate Pump
- Jet Cool / Jet Heat
- Auto Restart
- Auto Changeover
- Ultra-quiet Turbo Fan
- Night Quiet Function
- Optional Wi-Fi Control
- Drain Pan Heater
- Swirl Wind
- Direct / Indirect Wind
- Smart Mode
- Refresh Mode

**Included Accessories:**

- Wireless Remote Controller - PWLSSB21H

**Required Accessories:**

- Dual Vane Grille Kit - PT-AAGW0

**Optional Accessories:**

- Premium Controller - PREMTA000
- MultiSITE™ CRC1 - PREMTBVC0
- MultiSITE CRC1+ - PREMTBVC1
- Standard RS3 Controller - PREMTB100
- PI-485 - PMNFP14A1
- Dry Contact - PDRYCB320
- LonWorks® Gateway - PLNWKB100
- AC Smart 5 BACnet® Gateway - PACS5A000
- ACP 5 BACnet Gateway - PACP5A000
- Outside Air Flange - PTVK430
- Wi-Fi Module - PWFMD200
- Low Ambient Kit - PAG-HS4/PAG-HS5 (Cooling operation to -4°F)<sup>10</sup>

**Operating Range:**

**Outdoor Unit:**

Cooling (°F DB)	5 ~ 118
Heating (°F WB)	-13 ~ +64

**Indoor Unit:**

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

**System Data:**

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	9.26
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) <sup>3</sup>	54 / 56
IDU Sound Pressure (H/M/L/SL) (±1 dB[A]) <sup>3</sup>	46 / 43 / 41 / 39
ODU Net / Shipping Weight (lbs.)	210.9 / 234.1
IDU Net / Shipping Weight (lbs.)	59.5 / 70.5
Grille Net Weight (lbs.)	15.6
Heat Exchanger Coating	GoldFin™

**Fan:**

ODU Type	Propeller
IDU Type	Turbo
Fan Speeds (Fan/Cool/Heat)	4 / 5 / 5
Quantity (ODU + IDU)	2 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
Maximum ODU Air Volume (CFM)	4,238
IDU Air Flow (CFM Max./H/M/L)	1,483 / 1,130 / 953 / 812
Dehumidification (pts./hr.)	7.27

**Notes:**

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. All communication / connection (power) cable from the outdoor unit to the indoor unit is field supplied and must be a minimum of four-conductor, 14 AWG, stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only), and must comply with applicable local and national codes.
5. See Engineering Manual for sensible and latent capacities.
6. Power wiring cable size must comply with the applicable local and national code.
7. This unit comes with a dry helium charge.
8. 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.
9. Must follow installation instructions in the applicable LG installation manual.
10. If the optional low ambient kit is used, one wind baffle is required for each ODU fan.

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