

Job Name/Location:

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| For: | File     | Resubmit |
|      | Approval | Other    |

PO No.:

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**LC188HHV4**

Single-Zone 2x2 Four-Way Ceiling Cassette with LGRED®

Outdoor Unit (ODU) - LUU180HHV, Indoor Unit (IDU) - LCN188HHV4

**Performance:****Cooling:**

|                                         |                         |
|-----------------------------------------|-------------------------|
| Cooling Capacity (Min~Rated~Max, Btu/h) | 7,200 ~ 18,000 ~ 24,800 |
| SEER                                    | 20.00                   |
| EER                                     | 12.80                   |

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

**Heating:**

|                                         |                         |
|-----------------------------------------|-------------------------|
| Heating Capacity (Min~Rated~Max, Btu/h) | 6,500 ~ 20,000 ~ 23,700 |
| HSPF                                    | 11.20                   |
| Max. Heating @ Indoor 70°F DB (Btu/h)   |                         |
| Outdoor 17°F WB                         | 22,610                  |
| Outdoor 5°F WB                          | 20,000                  |
| Outdoor -4°F WB                         | 17,920                  |
| Outdoor -13°F WB                        | 15,990                  |

HSPF - Heating Seasonal Performance Factor

Heating Nominal Test Conditions:

Cooling Nominal Test Conditions:

Indoor: 80°F DB / 67°F WB

Outdoor: 95°F DB / 75°F WB

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)                                 | 30             |
| MCA (A)                                 | 22             |
| Cooling / Heating Rated Amps (A)        | 6.3 / 8.0      |
| Compressor (A)                          | 14.5           |
| Fan Motor (IDU + ODU) (A)               | 0.6 + 1.6      |
| Cooling Power Input (Min~Rated~Max, kW) | 0.53~1.41~2.85 |
| Heating Power Input (Min~Rated~Max, kW) | 0.46~1.80~2.60 |
| Locked Rotor Amps (A)                   | 23             |

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.)          | 1/4 Flare  |
| IDU Vapor Connection (in., O.D.)           | 1/2 Flare  |
| Additional Refrigerant (oz./ft.)           | 0.43       |
| Min. / Max. Pipe Length (ft.) <sup>2</sup> | 16.4 / 164 |
| Piping Length (no add'l refig., ft.)       | 24.9       |
| Max. Elevation (ft.)                       | 98.4       |

**Features:**

- Inverter (Variable Speed Compressor)
- Jet Cool
- Auto Restart
- Internal Condensate Pump
- Auto Changeover
- Drain pan heater
- Swirl Wind
- Ultra-quiet Turbo Fan
- Night Quiet Function
- Optional Wi-Fi Control
- IDU compatible with Multi F ODUs

**Included Accessories:**

- Wireless Remote Controller - PQWRHQ0FDB

**Required Accessories:**

- ☐ Grille Kit - PT-UQC or PT-QCHWO

**Optional Accessories:**

- ☐ Simple Controller - PREMT000
- ☐ Premium Controller - PREMTA000
- ☐ MultiSITE™ CRC1 - PREMTBVC0
- ☐ MultiSITE CRC1+ - PREMTBVC1
- ☐ PI-485 - PMNFP14A1
- ☐ Dry Contact - PDRYCB320
- ☐ LonWorks® Gateway - PLNWK100
- ☐ Standard Controller - PREMTB100
- ☐ AC Smart 5 BACnet® Gateway - PACS5A000
- ☐ ACP 5 BACnet Gateway - PACPSA000
- ☐ Outside Air Flange - PTVK430
- ☐ Wi-Fi Module - PWFMDD200
- ☐ Low Ambient Kit-PAG-6/PAG-7 (Cooling operation down to -4°F)

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) | -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.)                                      | 4.41              |
| ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) <sup>3</sup> | 51 / 52           |
| IDU Sound Pressure (H/M/L/SL) (±1 dB[A]) <sup>3</sup>          | 41 / 39 / 36 / 33 |
| ODU Net / Shipping Weight (lbs.)                               | 133.4 / 144.4     |
| IDU Net / Shipping Weight (lbs.)                               | 31.5 / 40         |
| Grille Net Weight (lbs.)                                       | 7                 |
| Heat Exchanger Coating                                         | GoldFin™          |

**Fan:**

|                               |                                       |
|-------------------------------|---------------------------------------|
| ODU Type                      | Propeller                             |
| IDU Type                      | Turbo                                 |
| Fan Speeds (Fan/Cool/Heat)    | 4 / 5 / 4                             |
| Quantity (ODU + IDU)          | 1 + 1                                 |
| Motor/Drive                   | Brushless Digitally Controlled/Direct |
| Maximum ODU Air Volume (CFM)  | 2,048                                 |
| IDU Air Flow (CFM Max./H/M/L) | 494 / 460 / 424 / 388                 |
| Dehumidification (pts./hr.)   | 4.28                                  |

**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. Multi compatible 18k IDUs include socket adapters for refrigerant pipe connections with Single Zone systems.
11. If the optional low ambient kit is used, one wind baffle is required for each ODU fan.

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**LGRED®**

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**Single-Zone 2x2 Four-Way Ceiling Cassette with LGRED®**  
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