

Job Name/Location:

Tag #:

Date:

For: ☐ File ☐ Resubmit

PO No.:

☐ Approval ☐ Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

LV420HHV

Single Zone LGRED° Vertical Air Handler Unit

Outdoor Unit (ODU) - LUU420HHV Indoor Unit (IDU) - LVN420HV

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

Cooling Capacity (Min~Rated~Max, Btu/h)	16,800 ~ 42,000 ~ 50,000
SEER / EER	19.6 / 12.5

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max, Btu/h)	18,000 ~ 48,000 ~ 60,000
HSPF	11.0
Max heating @ Indoor 70° DB (Btu/h)	
Outdoor 17°F WB	52,200
Outdoor 5°F WB	48,000
Outdoor -4°F WB	38,200
Outdoor -13°F WB	28,810

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 ¹ (V/Hz/Ø)	208-230 / 60 / 1
MOP / MCA (A)	40 / 32
Cooling / Heating Rated Amps (A)	14.9 / 16.4
Compressor(A)	22.0
Fan Motor (IDU + ODU) (A)	1.3 + (1.6 x 2)
Cooling Power Input (Min~Rated~Max, kW)	1.19 ~ 3.36 ~ 5.32
Heating Power Input (Min~Rated~Max, kW)	1.34 ~ 3.69 ~ 5.8
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.)	16.4 / 246
Piping Length (no add'l refriger., ft.)	24.9
Max. Elevation (ft.)	98.4

Features:

- Hot start
- Inverter (variable speed)
- Auto restart
- Control lock
- W2 terminal connection
- Group control
- Timer (on/off)
- Sleep Mode
- Optional Wi-Fi Control
- Built in dry contact
- ODU Drain Pan Heater
- Night Quiet Function
- IDU compatible with Multi F (18k, 24k, 36k models)

Required Accessories (sold separately):

Controller (Any LG wired remote controller)

Optional Accessories:

- ☐ MultiSITE™ CRC1 - PREMTBVCO
- ☐ MultiSITE CRC1+ - PREMTBVC1
- ☐ MultiSITE Comm. Mgr. - PBACNBTR0A
- ☐ AC Smart 5 - PACS5A000
- ☐ ACP 5 - PACPSA000
- ☐ Simple Controller - PREMTCC00U
- ☐ Wi-Fi module - PWFMDD200
- ☐ Remote Temperature Sensor - ZRTBS01
- ☐ Aux Heater Relay Kit - PRARH1
- ☐ Dry Contact - PDRYCB320
- ☐ Low Ambient Wind Baffle (cooling operation to -4°F) - ZLABGP04A⁹
- ☐ Electric Heater 3kW - ANEH033B1¹³
- ☐ Downflow Conversion Kit - PNDFK0

Operating Range:**Outdoor Unit:**

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

Indoor Unit:

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

System Data:

Refrigerant Type/Control	R410A / EEV
Refrigerant Charge (lbs.)	9.26
ODU Sound Pressure Max (Cool / Heat) ±1 dB(A) ³	54 / 56
IDU Sound Pressure (H/M/L) ±1 dB(A) ³	48 / 45 / 44
ODU Net / Shipping Weight (lbs.)	210.9 / 234.1
IDU Net / Shipping Weight (lbs.)	158.7 / 176.4

Fan:

ODU / IDU Fan Type	Propeller / Sirocco
Fan Speeds (Fan/Cool/Heat)	3 / 3 / 3
Fan Quantity (ODU + IDU)	2 + 1
Motor/Drive	Brushless Digitally Controlled / Direct
Maximum ODU Air Volume (CFM)	4,238
IDU Air Volume (H/M/L) (CFM)	1,260 / 1,100 / 1,000
Dehumidification Rate (pts/hr) ¹⁰	6.76
IDU External Static Pressure Operating Range (Min~Default~Max) (in-wg) ¹¹	0.1~ 0.3 ~ 1.0

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, communication cable to be minimum 14 American wire gage (AWG), 4-conductor, stranded, shielded or unshielded wire and must comply with applicable local and national code. If shielded, the wire must be grounded to the chassis at the outdoor unit only.
- 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 25 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.
- If the optional low ambient wind baffle (ZLABGP04A) is used, one wind baffle is required for each ODU fan.
- Dehumidification rate is based on high speed airflow.
- 18k, 24k, and 36k IDU units have ECM fan that automatically adjusts throughout the ESP (External Static Pressure) range. Therefore, there is no default ESP value for these units.
- 18k and 24k VAHUs are supplied with socket adapters for pipe transitions.
- Electric heater accessory available in 3kW, 5kW, 8kW, 10kW, 15kW, and 20kW capacities. Refer to the engineering manual for details.
- Controller not included.

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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LGRED° Inverter C US

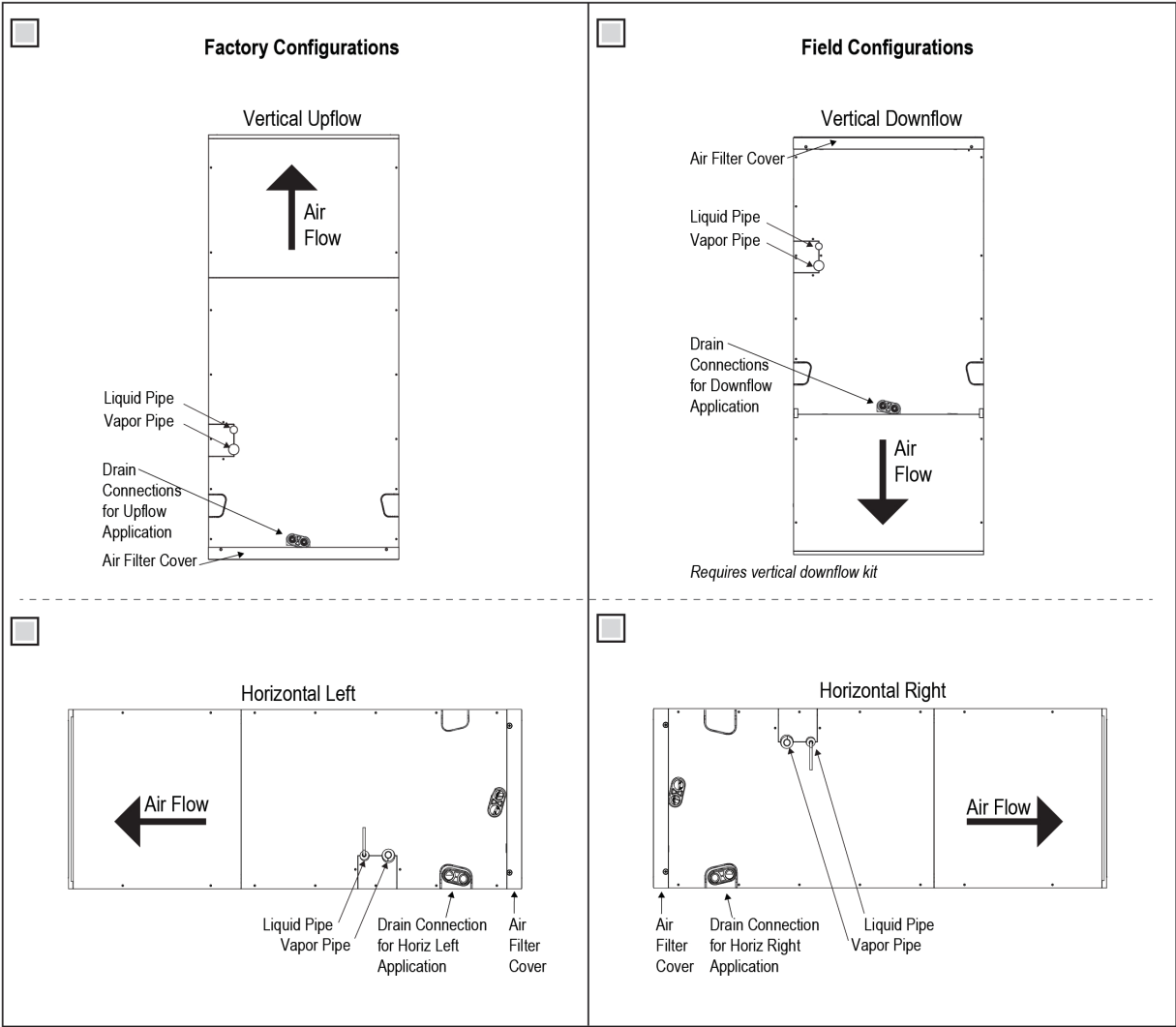


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LVN420HV
Single Zone LGRED° Vertical Air Handler Unit



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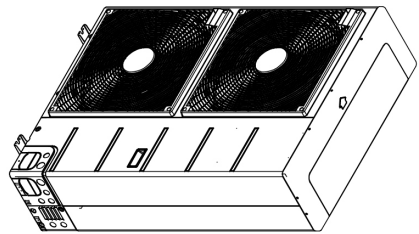
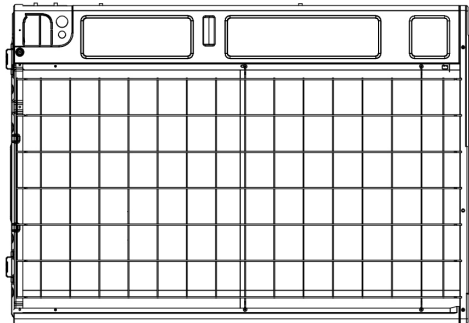
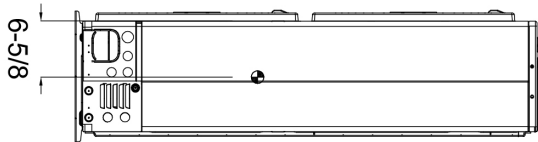
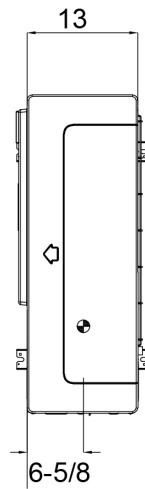
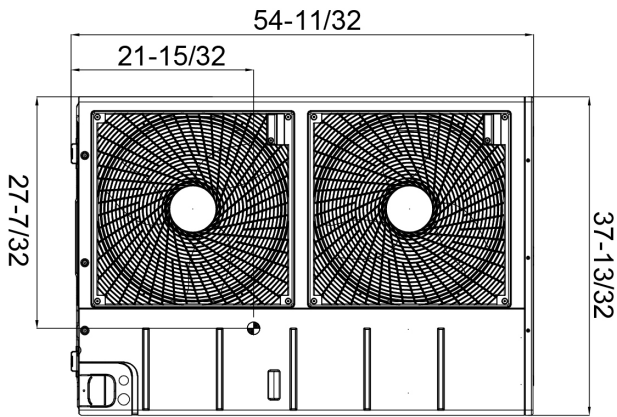
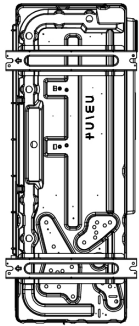
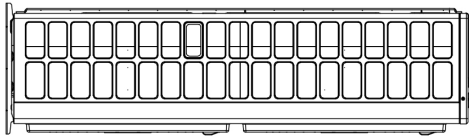
LUU420HHV
Single Zone LGRED° Vertical Air Handler Unit



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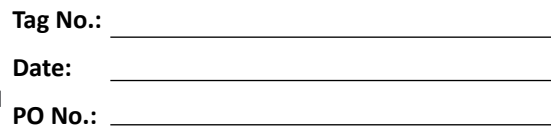
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Unit: inch

LVN420HV
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Unit: inch