

Job Name/Location:

Tag #:

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

LV120HCV**Vertical Air Handling Unit - CV**

Outdoor Unit (ODU) - LVU120HCV Indoor Unit (IDU) - LVN120HCV

Performance:**Cooling:**

Cooling Capacity (Min~Rated~Max, Btu/h) 4,200 ~ 12,000 ~ 15,000

SEER2 / EER2 16 / 12.20

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max, Btu/h) 6,000 ~ 15,000 ~ 20,000

HSPF2 9.3

Max heating @ Indoor 70° DB (Btu/h)

Outdoor 17°F WB 14000

Outdoor 5°F WB 13000

Outdoor -4°F WB 11820

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 Supply¹ (V/Hz/Ø) 208-230 / 60 / 1

MOP / MCA (A) 20 / 13.8

Cooling / Heating Rated Amps (A) 4.4 / 5.6

Compressor(A) 10

Fan Motor (IDU + ODU) (A) 1.1 + 1.3

Cooling Power Input (Min~Rated~Max, kW) 0.45 ~ 0.98 ~ 1.50

Heating Power Input (Min~Rated~Max, kW) 0.40 ~ 1.26 ~ 1.93

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

Installed Liquid Pipe (in., O.D.) 1/4 Flare

Installed Vapor Pipe (in., O.D.) 3/8 Flare

IDU Liquid Connection (in., O.D.) 1/4 Flare

IDU Vapor Connection (in., O.D.) 3/8 Flare

Additional Refrigerant (oz./ft.) 0.21

Min/Max. Pipe Length (ft.) 16.4 / 98.4

Piping Length (no add'l refriger., ft.) 24.6

Max. Elevation (ft.) 66

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

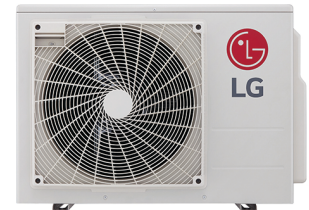
- ECM (Electronically Commutated Motor) fan provides constant airflow regardless of permitted ESP (External Static Pressure)

Required Accessories (sold separately):

Controller (Any LG wired remote controller)

Optional Accessories:

- ☐ MultiSITE™ CRC2 - PREMTBVC2
- ☐ MultiSITE™ CRC2+ - PREMTBVC3
- ☐ MultiSITE™ CRC2+Z - PREMTBVC4
- ☐ MultiSITE™ Comm. Mgr. - PBACNBTR0A
- ☐ AC Smart 5 - PACS5A000
- ☐ ACP 5 - PACP5A000
- ☐ Simple Controller - PREMTCC00U
- ☐ Wi-Fi module - PWFMD200
- ☐ Remote Temperature Sensor - ZRTBS01
- ☐ Aux Heater Relay Kit - PRARH1
- ☐ Drain Pan Heater - PQSH1203
- ☐ Dry Contact - PDRYCB320
- ☐ Low Ambient Wind Baffle (cooling operation to -4°F) - ZLABGP03A⁹
- ☐ Electric Heater 3kW - ANEH033B1¹³
- ☐ PI-485 Control Board - PMNFP14A1
- ☐ Downflow Conversion Kit - PNDFJ0

**Operating Range:****Outdoor Unit:**

Cooling (°F DB) 5 to 118

Heating (°F WB) -4 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.) 3.53

ODU Sound Pressure Max (Cool / Heat) ±1 dB(A)³ 49/51IDU Sound Pressure (H/M/L) ±1 dB(A)³ 34 / 31 / 28

ODU Net / Shipping Weight (lbs.) 100.3 / 109

IDU Net / Shipping Weight (lbs.) 116.8 / 128.5

Fan:

ODU / IDU Fan Type Propeller / Sirocco

Fan Speeds (Fan/Cool/Heat) 400 ~ 1000

Fan Quantity (ODU + IDU) 1 + 1

Motor/Drive Electronically Commutated Motor / Direct

Maximum ODU Air Volume (CFM) 1765

IDU Air Volume (H/M/L) (CFM) 580 / 480 / 380

Dehumidification Rate (pts/hr)¹⁰ 2.4

IDU External Static Pressure Operating

Range (Min~Default~Max) (in-wg)¹¹ 0.1~ - ~0.6**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 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.
5. Power wiring cable size must comply with the applicable local and national code.
6. The indoor unit comes with a dry helium charge.
7. 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.
8. Must follow installation instructions in the applicable LG installation manual.
9. If the optional low ambient wind baffle is used, one wind baffle is required for each ODU fan.
10. Dehumidification rate is based on high speed airflow.
11. 12k, 18k, 24k, and 30k 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.
12. 12k, 18k and 24k Vertical Air Handler Units are supplied with socket adapters for pipe transitions.
13. Electric heater accessory available in 3kW, 5kW, 8kW, and 10kW capacities. Refer to the engineering manual for details.
14. 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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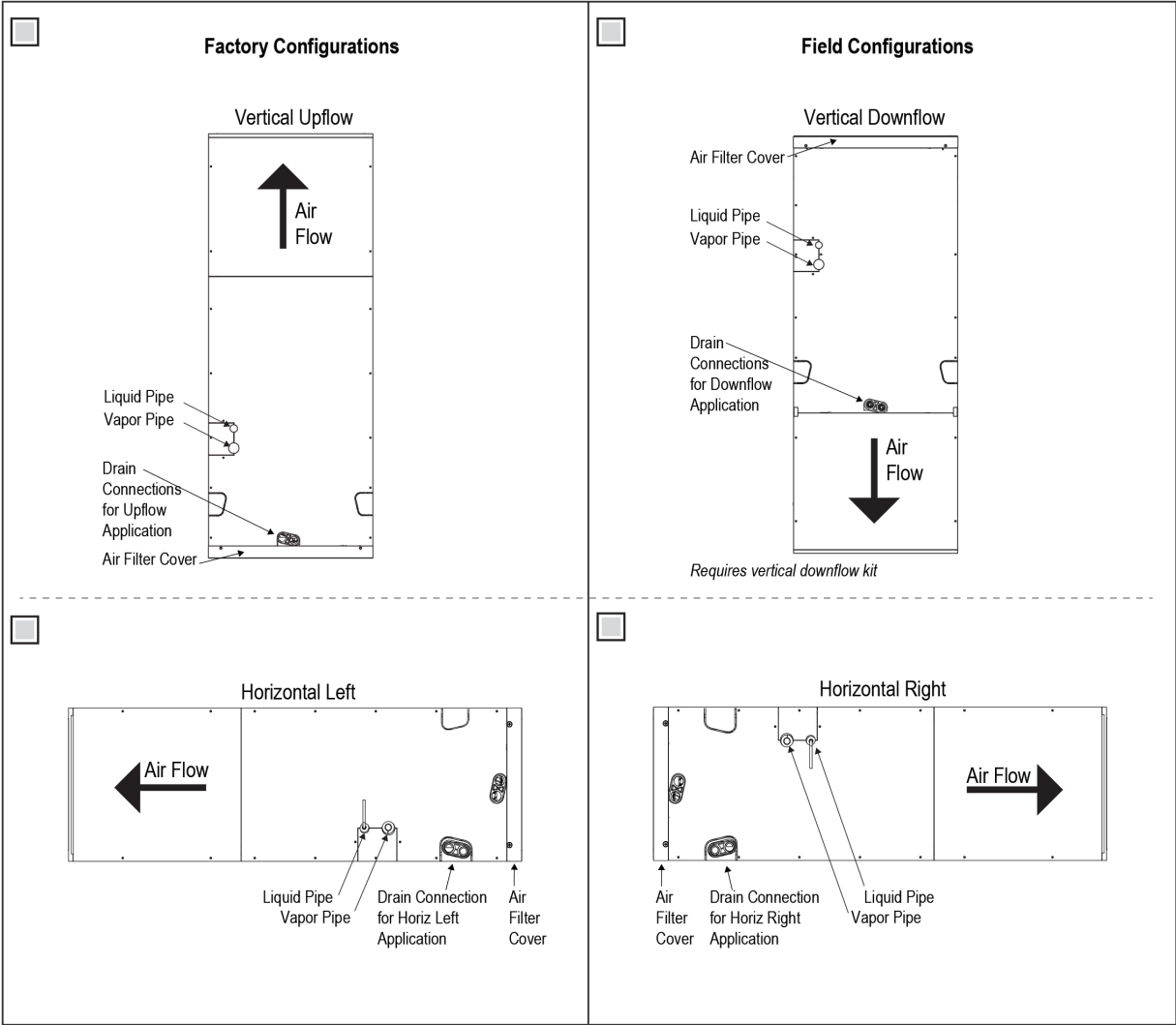
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LVN120HCV
Vertical Air Handling Unit - CV



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LVU120HCV

Vertical Air Handling Unit - CV

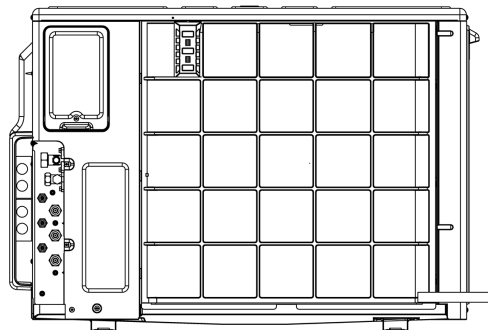
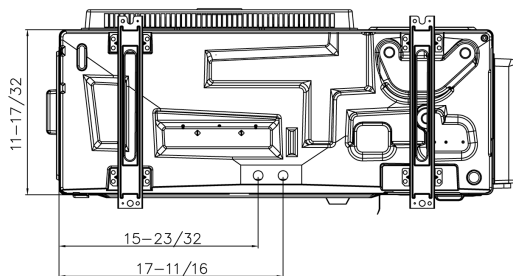
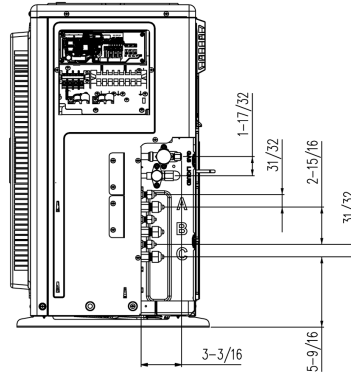
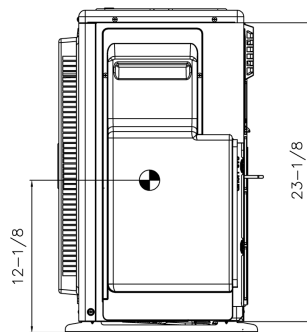
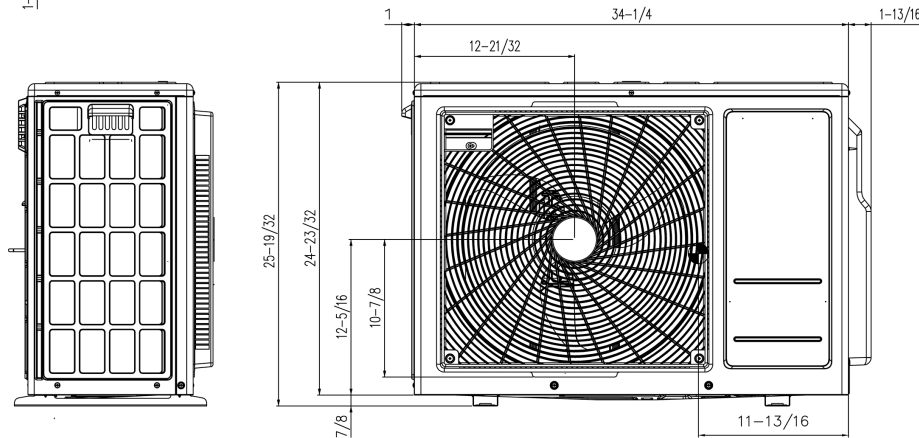
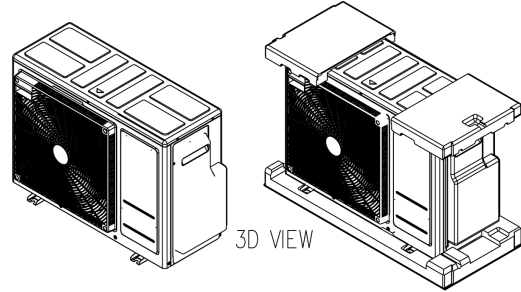
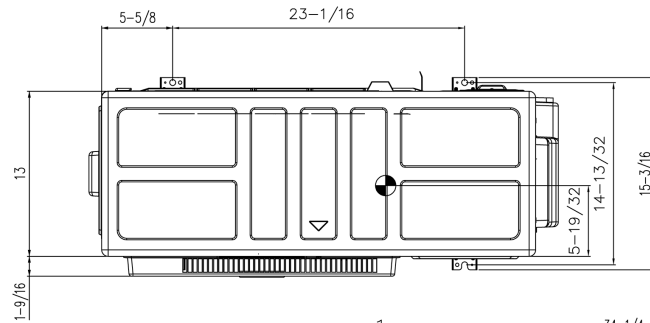


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Unit: Inch
● Gravity point



(BACK)

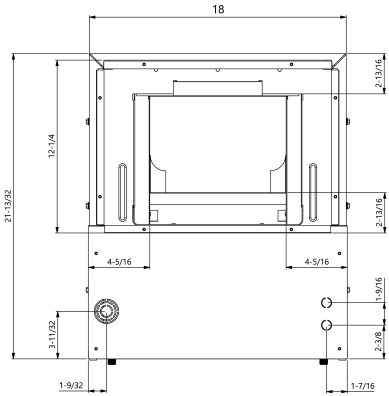
Notes:

1. Unit must be installed in compliance with the installation manual.
2. Unit must be grounded in accordance with the local or state regulations and applicable national codes.
3. All field-supplied electrical components and materials must comply with the local, state, and national codes.
4. Electrical characteristics must be considered for electrical work and design. The capacity of power cable and circuit breaker for the outdoor unit must follow local, state, national, and manufacturer requirements.

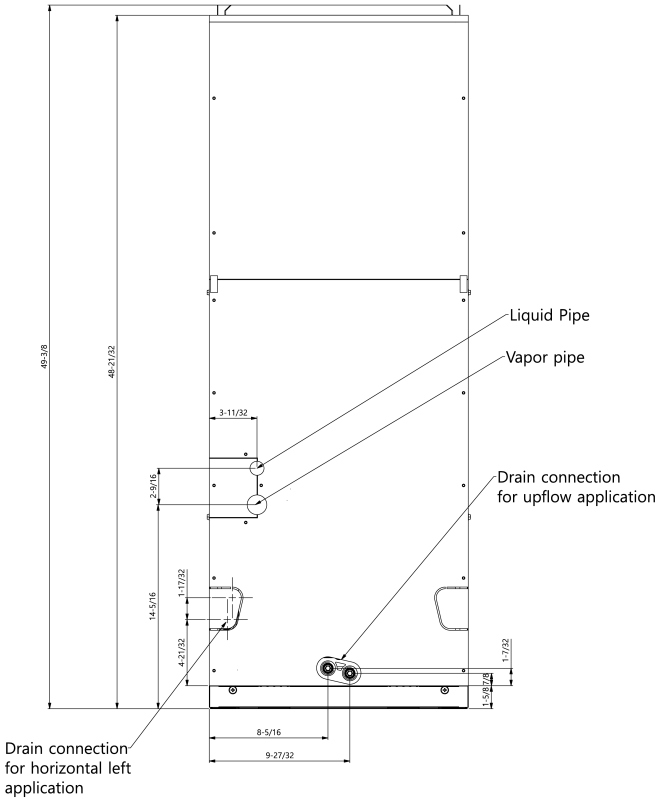
LVN120HCV
Vertical Air Handling Unit - CV



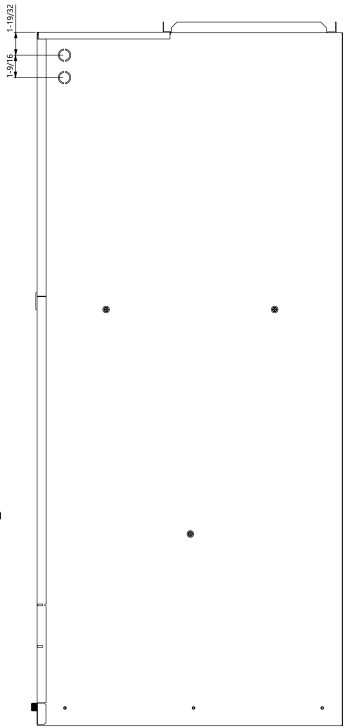
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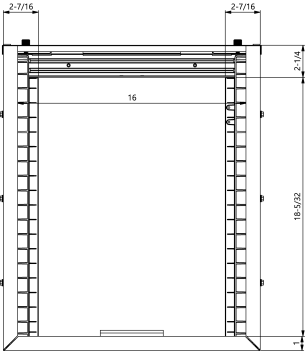
Top View



Front View



Side View



Bottom View