

Date:

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PO No.:

☐ Approval ☐ Other _____

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

LV420HV**Single Zone Vertical Air Handler Unit**

Outdoor Unit (ODU) - LUU428HV Indoor Unit (IDU) - LVN420HV

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

Cooling (Min-Rated-Max, Btu/h)	17,000 ~ 42,000 ~ 48,000
SEER2/EER2	17.2/10.75

SEER - Seasonal Energy Efficiency Rating EER - Energy Efficiency Rating

Heating:

Heating (Min~Rated~Max, Btu/h)	18,000 ~ 47,000 ~ 55,000
HSPF2	9.35
Max heating @ Indoor 70° DB (Btu/h)	39,000
Outdoor 17°F WB	36,200
Outdoor 5°F WB*	32,890
Outdoor -4°F WB	

HSPF - Heating Seasonal Performance Factor.

*The Capacities at 5°F does not refer to H42 testing conditions.

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 (V/Hz/Ø)	208-230 / 60 / 1
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Outdoor Unit:

MOP (A)	40
MCA (A)	32
Cooling Rated Amps (A)	24.2
Compressor (A)	21.0
Fan Motor (A)	1.6 x 2

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (Min-Rated-Max, kW)	1.35 ~ 3.80 ~ 5.30
Heating Power Input (Min-Rated-Max, kW)	1.45 ~ 4.00 ~ 5.65

Piping:

Liquid Line (in, OD)	3/8
Vapor Line (in, OD)	5/8
Additional Refrigerant (oz/ft)	0.43
Min/Max Pipe Length (ft) ²	6.6/246
Pipe Length (no add'l Refrigerant, ft)	24.6
Max Elevation (ft)	98.4

Features:

- ESP control
- Auto restart
- Sleep mode
- Hot start
- Group control
- Built in dry contact
- Optional Wi-Fi
- Timer (on/off)
- Inverter (variable speed fan)

Optional Accessories:

- ☐ MultiSITE™ CRC2 - PREMTBVC2
- ☐ AC Smart 5 - PACS5A000
- ☐ Programmable Remote Controller - PREMTB100
- ☐ Low Ambient Kit -40°F cooling PQCA0, PAG-HS4/PAG-HS5 Wind Guards
- ☐ Delux Remote Controller - PREMTB200
- ☐ Without PQCA0 Cooling to 0°F
- ☐ Wi-Fi Module - PWFMD200
- ☐ Dry Contact 3rd Party Thermostat - PDRYCB320
- ☐ Electric Heater¹¹
- ☐ Remote Temperature Sensor - ZRTBS01
- ☐ Downflow Conversion Kit - PNDFK0
- ☐ Aux Heater relay kit - PRARH1

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)	-4 - 64

Indoor Unit:

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

Unit Data:

Refrigerant Type/Control	R410A/EEV
Refrigerant Charge (lbs)	7.5
ODU Sound Pressure Max (Cool/Heat) ±3 dB(A) ³	52/54
IDU Sound Pressure (H/M/L) ±3 dB(A) ³	48/45/44
ODU Net Weight (lbs)	203
ODU Shipping Weight (lbs)	232
IDU Net Weight (lbs)	165
IDU Shipping Weight (lbs)	188

Fan:

ODU/IDU Fan Type	Propeller/Sirocco
Fan Speeds (Fan/Cooling/Heating)	3/3/3
Fan Quantity (ODU + IDU)	2 + 1
Motor/Drive	Brushless Digitally Controlled / Direct
ODU Air Circulation (CFM)	1,942 x 2
IDU Air Circulation H/M/L (CFM)	1,260 / 1,100 / 1,000
External Static Pressure (ESP) Factory Default (in-wg)	0.3
Minimum ESP/Fan Setting Value ⁴	0.1/70
Maximum ESP/Fan Setting Value ⁴	1.0/116
Dehumidification Rate (pts/hr)	4.3

Notes:

- Acceptable operating voltage: 187V ~ 253V.
- Piping lengths are equivalent.
- Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
- Fan setting value correlates to High speed air flow.
- All power/communication cable to be minimum 18 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 is used, one wind baffle is required Without PQCA0 (Baffles only) Cooling to -4°F.
- Electric heater accessory available in 3kW, 5kW, 8kW, 10kW, 15kW, and 20kW capacities. Refer to the engineering manual for details.
- Controller not included.



LUU428HV

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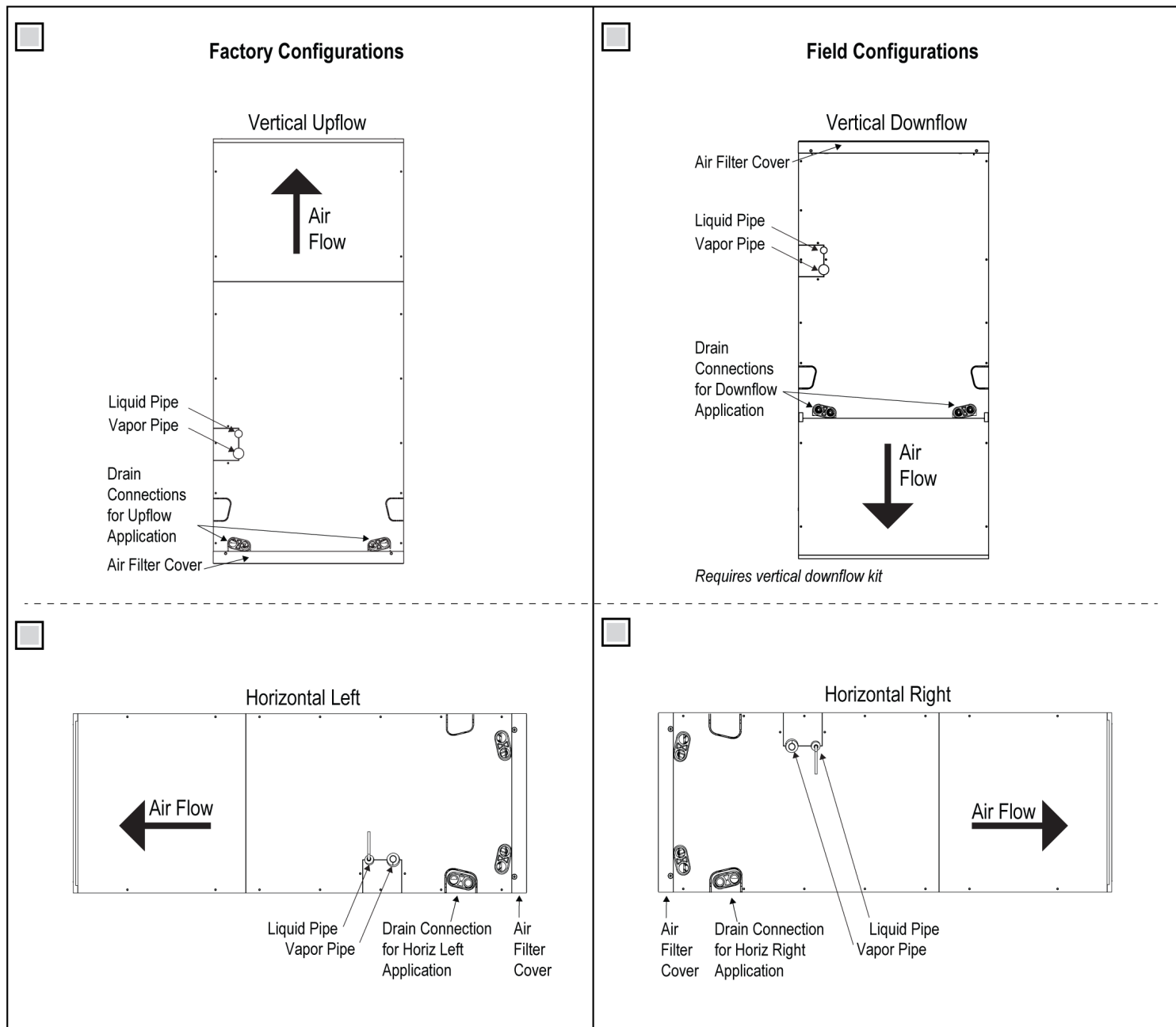
LG

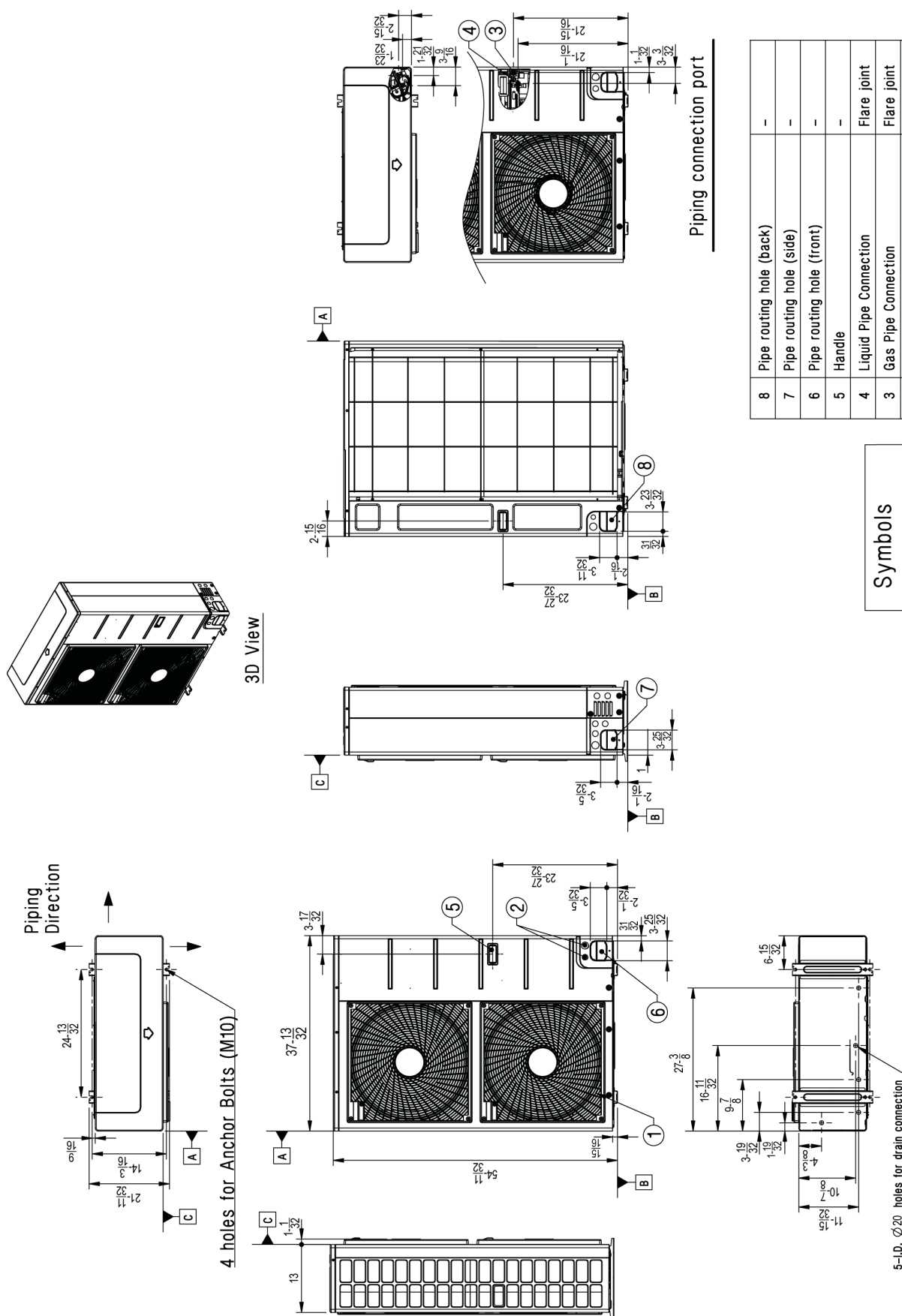
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[Unit: inch]

LVN420HV

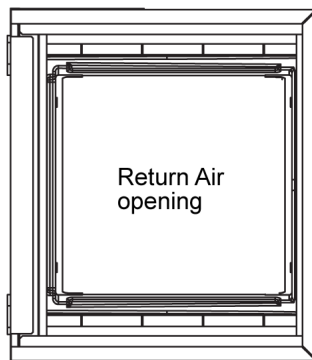
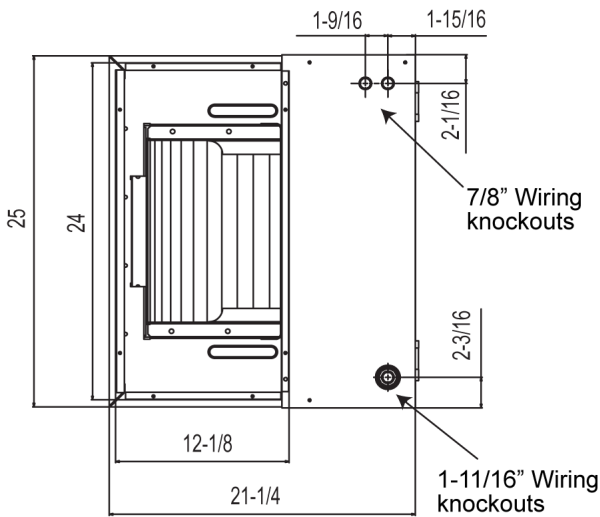
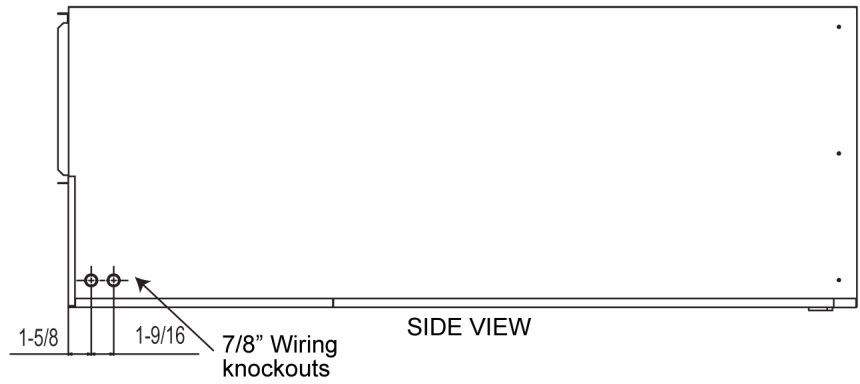
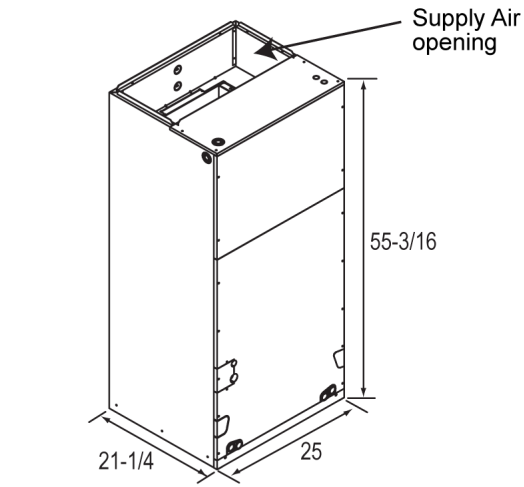
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Unit: inches

Note: All measurements have a tolerance of $\pm 1/4$ in.

