Job Name/Location: Tag No:

For: File Resubmit Date: Approval Other PO No.:

GC: **Architect:** Mech: Engr:

Rep:

(Project Manager)

LMU481HV Multi F MAX Outdoor Unit 4.0 Ton Heat Pump



Operating Range:

Cooling (°F DB)15

Heating (°F WB)

Unit Data:



14 to 118

-4 to +64

Performance:

Cooling Capacity (MinRated-Max., Btu/h)	10,800~48,000~58,000
Heating Capacity (MinRated-Max., Btu/h)	12,420~54,000~59,000
Max. Heating Capacity at 17°F (Btu/h)	47,690
Max. Heating Capacity at 5°F (Btu/h)	40,190
Max. Heating Capacity at -4°F (Btu/h)	35,070
Cooling COP @95°F (Rated)	3.75
Heating COP @47°F (Rated)	3.50

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

Electrical:

Power Supply (V/Hz/Ø) ¹	208-230V, 60, 1
MOP (A)	40
MCA (A)	32.7
Cooling Rated Amps (A)	29.2
Heating Rated Amps (A)	29.2
Compressor (A)	22.0
Fan Motor (A)	1.6 x 2
Locked Rotor Amps (A)	22

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

Refrigerant Charge (lbs.)	9.26
Liquid Line Connection (in., O.D.)	Ø3/8 x 1
Vapor Line Connection (in., O.D.)	Ø3/4 x 1
Maximum Total Piping ² (ft.)	475.7
Min. / Max. ODU to IDU Piping ³ (ft.)	32.8 / 229.6
Piping Length⁴ (no add'l refrigerant, ft.)	180.4
Maximum Elevation between ODU and IDU (ft.)	98.4
Maximum Elevation between IDU and IDU (ft.)	49.2

ODU = Outdoor Unit

IDU = Indoor Unit

Features:

- R1 Scroll (Variable Speed) Compressor
- · Defrost / Deicing Low ambient cooling
- · Restart delay (three

- Auto operation Auto restart
- down to 14°F
- [3] minutes)

- Soft start
- · Self diagnosis

Optional Accessories:

- ☐ PI-485 PMNFP14A1 ☐ AC Smart 5 - PACS5A000 ☐ ACP 5 - PACP5A000
- ☐ MultiSITE™ Comm. Mgr. PBACNBTR0A
- ☐ Power Distribution Indicator (PDI)

Premium - PQNUD1S41

- ☐ Mobile LGMV PLGMVW100
- ☐ Low Ambient Wind Baffle (Cooling
- Operation Down to -4°F) ZLABGP04A x2
- ☐ Drain Pan Heater PQSH1200

Required⁵ Accessories:

- ☐ 2 Port BD Unit PMBD3620 ☐ 3 Port BD Unit - PMBD3630
- ☐ 4 Port BD Unit PMBD3640
- ☐ 4 Port BD Unit PMBD3641

Refrigerant Type R410A Refrigerant Control **EEV** Sound Pressure (Cool / Heat) ±1 dB(A)6 53 / 55Net / Shipping Weight (lbs.) 192 / 216 **Heat Exchanger Coating** Gold Fin™ Minimum No. of Indoor Units 8 Maximum No. of Indoor Units

Compressor:

T	уре	R1 Scroll
a	Quantity	1
0	Dil / Type	FVC68D

Fan:

Туре	Propeller
Quantity	2
Motor / Drive	Brushless Digitally Controlled/Direct
Max. Airflow Rate (CFM)	1.942 x 2

Notes:

- 1. Acceptable operating voltage: 187V 253V.
- 2. Piping lengths are equivalent.
- 3. 180.4 ft. of Main Piping + 49.2 ft. of Branch Piping.
- 4. 49.2 ft. of Main Piping + 131.2 of Branch Piping.
- 5. At least one branch distribution (BD) unit is required for system operation; a maximum of two can be installed per ODU with the use of a Y-branch accessory (PMBL5620).
- 6. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
- 7. All power / communication cable to be minimum 14 AWG from the ODU to the BD unit, and 14 AWG from the BD unit to the IDU.
- 8. All power / communication cable to be 4-conductor, stranded, shielded or unshielded, and must comply with applicable local and national codes. If shielded, the wire must be grounded to the chassis at the ODU only.
- 9. Power wiring size must comply with the applicable local and national codes.
- 10. See the Engineering Manual Capacity Tables for ODU sensible and latent capacities.
- 11. See the Engineering Manual Combination Tables for allocation of ODU rated capacity to each connected IDU when all are calling for full capacity. Allocation percentages should be applied to ODU capacity at design conditions.
- 12. This data is rated 0 ft. above sea level, with 115 ft. of refrigerant line, and 0 ft. level difference between ODU and IDUs. All capacities are net with a combination ratio between 95 - 105%
- 13. Must follow installation instructions in the applicable LG installation manual.
- 14. See the Engineering Manual Capacity Tables for ODU capacity at design conditions.
- 15. Installation of an optional Low Ambient Wind Baffle Kit will allow operation down to -4°F in cooling mode



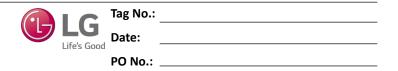


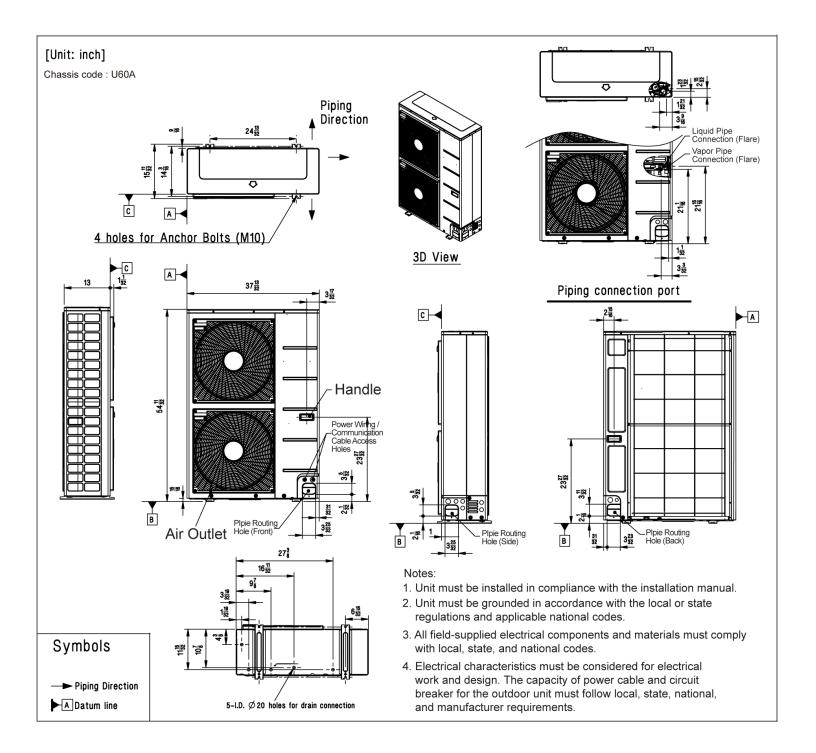




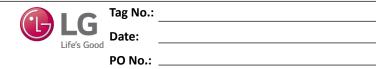
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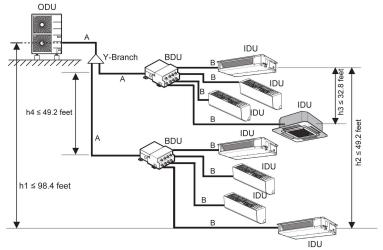
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Example: outdoor unit with eight (8) indoor units and two (2) branch distri-

bution units connected. ODU: Outdoor Unit. IDU: Indoor Unit.

BDU: Branch Distribution Unit(s).

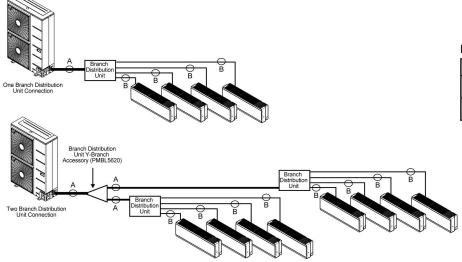
A: Main Pipe.

B: Branch Pipe (Branch Distribution Unit[s] to Indoor Unit[s]).

Multi F MAX Outdoor Unit Refrigerant Piping System Limitations.

	Total piping length (ΣA + ΣB)		≤475.7 feet
Pipe Length	Main pipe (Outdoor Unit to Branch Distribution Units: A)	Minimum for Each (A) Piping Segment	16.4 feet
		Maximum (ΣA)	≤180.4 feet
(ELF = Equivalent Length of pipe in Feet)	Total branch piping length (ΣΒ)		≤295.3 feet
Length of pipe in reet,	Branch pipe (Branch Distribution Units to Indoor Units: B)	Minimum	16.4 feet
		Maximum	≤49.2 feet
Elevation Differential	\(\text{\cdots}\)		≤98.4 feet
(All Elevation			≤49.2 feet
Limitations are	Between branch distribution unit and farthest connected indoor unit(s) (h3)		≤32.8 feet
Measured in Actual Feet) Between branch distribution units (h4)			≤49.2 feet

Installing the Unit



Multi F MAX Piping Sizes.

Piping	Main Pipe A (inch)	Branch Pipe B
Liquid	Ø3/8	Depends on the size of
Vapor	Ø3/4	the indoor unit piping.