Job Name/Location:

Tag No:

G

14 to 118

-4 to +64

R410A

53/55

192/216

Gold Fin™

R1 Scroll

Propeller

1,942 x 2

Brushless Digitally Controlled/Direct

EEV

2 8

1 FVC68D

Date:		

PO No.:

Architect:

Engr:

Rep:

(Company)

LMU541HV Multi F MAX Outdoor Unit

4.5 Ton Heat Pump

Dorformanco

Performance:	
Cooling Capacity (MinRated-Max., Btu/h)	10,800~50,500~63,200
Heating Capacity (MinRated-Max., Btu/h)	12,420~58,000~64,000
Max. Heating Capacity at 17°F (Btu/h)	49,530
Max. Heating Capacity at 5°F (Btu/h)*	41,140
Max. Heating Capacity at -4°F (Btu/h)	35,790
Cooling COP @95°F (Rated)	3.69
Heating COP @47°F (Rated)	3.35
SEER 2 (Ducted / Non-Ducted)	18.5 / 20.6
EER 2 (Ducted / Non-Ducted)	12.5 / 12.6
HSPF 2 (Non-Ducted)	9.3 / 7.2
HSPF 2 (Ducted)	9.3 / 7.2

For:

GC:

Mech:

(Project Manager)

File

Approval

Resubmit

ife's Good

Operating Range:

Cooling (°F DB)¹⁵

Heating (°F WB)

Refrigerant Control

Net / Shipping Weight (lbs.)

Minimum No. of Indoor Units

Maximum No. of Indoor Units

Heat Exchanger Coating

Sound Pressure (Cool / Heat) ±1 dB(A)6

Unit Data: **Refrigerant Type**

Compressor:

Туре

Fan: Туре

Quantity

Oil / Type

Quantity

Motor / Drive

Other

HSPF - Heating SeasonPerformace Factor *The capacities at 5°F does not refer to H42 testing conditions. 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)	30.0
Heating Rated Amps (A)	30.0
Compressor (A)	22.0
Fan Motor (A)	1.6 x 2
Locked Rotor Amps (A)	22

MOP - Maximum Overcurrent Protection Piping:	MCA - Minimum Circuit Ampacity
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 Length ⁴ (no add'l refrigeran	t, ft.) 180.4
Maximum Elevation between ODL	J and IDU (ft.) 98.4
Maximum Elevation between IDU	and IDU (ft.) 49.2

ODU = Outdoor Unit Features

reatures.		
• R1 Scroll (Variable Speed) Compressor	 Defrost / Deicing Low ambient cooling 	 Restart delay (three [3] minutes)
 Auto operation 	down to 14°F	,
 Auto restart 	 Soft start 	
 Self diagnosis 		

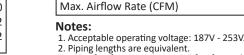
IDU = Indoor Unit

Optional Accessories:

□ PI-485 - PMNFP14A1 AC Smart 5 - PACS5A000 □ Drain Pan Heater - PQSH1200 □ Low Ambient Kit -40°F cooling

□ Without PQCA0 cooling to 0°F

Required⁵ Accessories: 2 Port BD Unit - PMBD3620 3 Port BD Unit - PMBD3630 4 Port BD Unit - PMBD3640 🗆 4 Port BD Unit - PMBD3641 PQCA0, PAG-HS4 / PAG-HS5 Wind Baffle.



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 un-
- shielded, 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 147.6 ft. of refrigerant pipe length, 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





For a complete list of available accessories, contact your LG representative.

For continual product development, LG reserves the right to change specifications without notice.

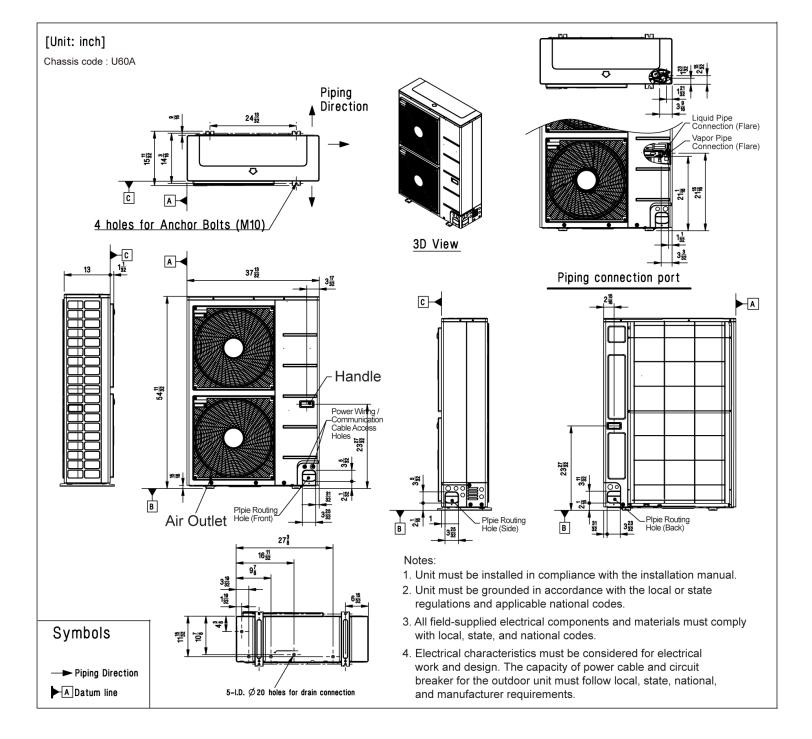
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Job Name/Location:

LMU541HV Multi F MAX Outdoor Unit 4.5 Ton Heat Pump



Date: PO No.:



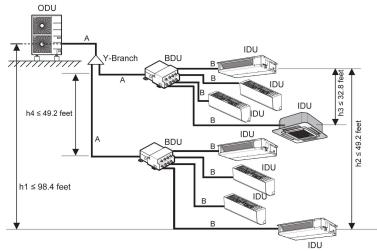
LMU541HV Multi F MAX Outdoor Unit 4.5 Ton Heat Pump



Date:

Tag No.:

PO No.: _

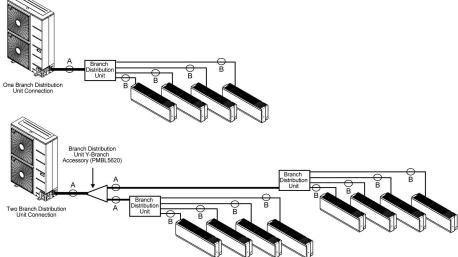


Example: outdoor unit with eight (8) indoor units and two (2) branch distribution units connected. ODU: Outdoor Unit. IDU: Indoor Unit. BDU: Branch Distribution Unit(s). A: Main Pipe. B: Branch Pipe (Branch Distribution Unit[s] to Indoor Unit[s]).

Multi F MAX Outdoor Unit Refrigerant Piping System Limitations.

	Total piping length (ΣA + ΣB)		≤475.7 feet
Pipe Length (ELF = Equivalent Length of pipe in Feet)	Main pipe (Outdoor Unit to Branch Distribution Units: A)	Minimum for Each (A) Piping Segment	16.4 feet
		Maximum (ΣA)	≤180.4 feet
	Total branch piping length (ΣB)		≤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	Il Elevation Between the farthest two indoor units (h2)		≤98.4 feet
(All Elevation			≤49.2 feet
Limitations are Between branch distribution unit and farthest of		door unit(s) (h3)	≤32.8 feet
Measured in Actual Feet)	Potwoon 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.