Job Name/	Location:
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Tag No:

Date:	For:	File	Resubmit	
PO No.:		Approval	Other	
Architect:	GC:			
Engr:	Mech:			

(Project Manager)



Performance:

LMU541HV

Multi F MAX Outdoor Unit

4.5 Ton Heat Pump

Rep:

(Company)

renormance.	
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

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) 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 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 Length ⁴ (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

IDU = Indoor Unit

ODU = Outdoor Unit

Features:

Speed) Compressor	 Defrost / Deicing Low ambient cooling	 Restart delay (three
• Auto operation	down to 14°F Soft start	[3] minutes)
Optional Accessories:	Requi	red ⁵ Accessories:

 □ PI-485 - PMNFP14A1
 □ 2 Port BD Unit - PMBD3620

 □ AC Smart 5 - PACS5A000
 □ 3 Port BD Unit - PMBD3630

 □ ACP 5 - PACP5A000
 □ 4 Port BD Unit - PMBD3640

 □ MultiSITE™ Comm. Mgr. - PBACNBTR0A
 □ 4 Port BD Unit - PMBD3641

 □ 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

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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 Cooling (°F DB)¹⁵
 14 to 118

 Heating (°F WB)
 -4 to +64

 Unit Data:
 -4 to +64

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (Cool / Heat) ±1 dB(A) ⁶	53 / 55
Net / Shipping Weight (lbs.)	192 / 216
Heat Exchanger Coating	Gold Fin™
Minimum No. of Indoor Units	2
Maximum No. of Indoor Units	8

Compressor:

ife's Good

Operating Range:

Туре	R1 Scroll
Quantity	1
Oil / Type	FVC68D

Fan:	
Туре	Propeller
Type Quantity Motor / Drive	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.

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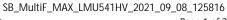
3. 180.4 ft. of Main Piping + 49.2 ft. of Branch Piping.

4. 49.2 ft. of Main Piping + 131.2 of Branch Piping.

- 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.
- 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.
 All power / communication cable to be 4-conductor, stranded, shielded or un-
- 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%.
- Must follow installation instructions in the applicable LG installation manual.
 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.



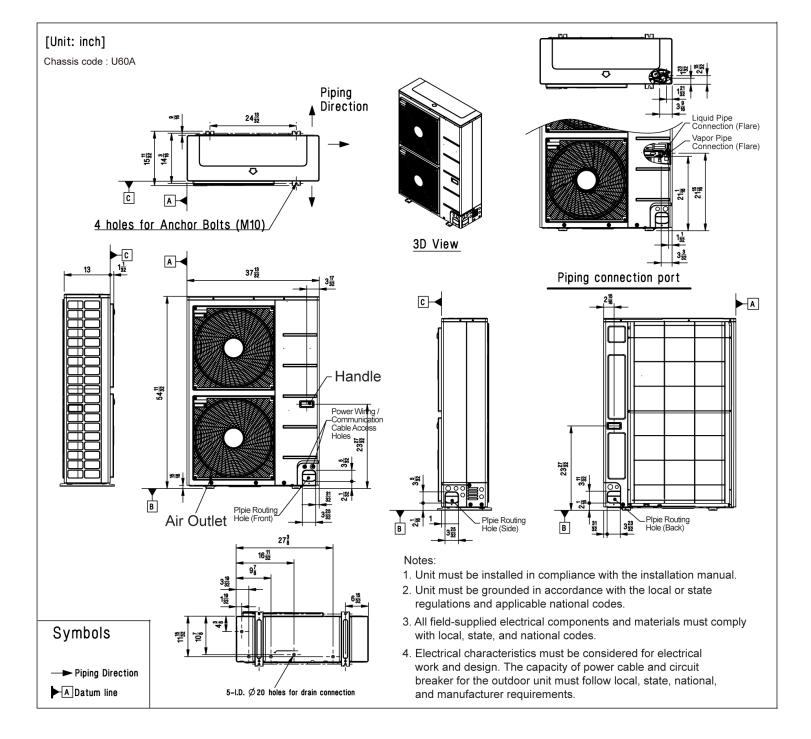


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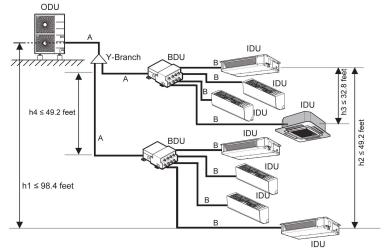
LMU541HV Multi F MAX Outdoor Unit 4.5 Ton Heat Pump



Date: PO No.:



LMU541HV Multi F MAX Outdoor Unit 4.5 Ton Heat Pump

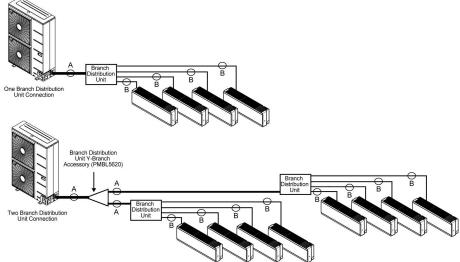


Example: outdoor unit with eight (8) indoor units and two (2) branch distribution units connected. ODU: Outdoor Unit. IDU: Indoor Unit. BDU: Branch Distribution Unit(s). A: Main Pipe. B: Branch Pipe (Branch Distribution Unit[s] to Indoor Unit[s]).

Multi F MAX Outdoor Unit Refrigerant Piping System Limitations.

	Total piping length (ΣA + ΣB)		≤475.7 feet
	Main nine (Outdoor Unit to Brough Distribution Units, A)	Minimum for Each (A) Piping Segment	16.4 feet
Pipe Length	• · · · · · · · · · · · · · · · · · · ·	Maximum (ΣA)	≤180.4 feet
(ELF = Equivalent Length of pipe in 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
	Branch pipe (Branch Distribution Units to Indoor Units: B)	Maximum	≤49.2 feet
Elevation Differential	If outdoor unit is above or below indoor unit (h1)		≤98.4 feet
(All Elevation	Between the farthest two indoor units (h2)		≤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.