Job Name/Location:

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Date:		For:	File	Resubmit	_
20 No.:			Approval	Other	
Architect:	GC:				

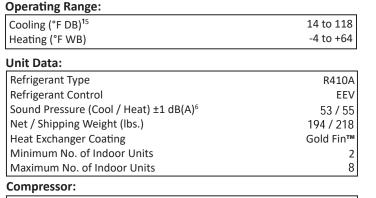
	C LG
	Smart Inverter
	-
 0	

Engr:	Mech:
Rep:	
Company)	(Project Manager)
LMU543HV	
Multi F MAX Outdoor Unit	
4.5 Ton Heat Pump	
Performance:	
Cooling Capacity (MinRated-Max., Btu/h)	10,800~50,500~63,20
Heating Capacity (MinRated-Max., Btu/h)	12,420~58,000~64,00
Max. Heating Capacity at 17°F (Btu/h)	49,53
Max. Heating Capacity at 5°F (Btu/h)	41,14
Max. Heating Capacity at -4°F (Btu/h)	35,79
Cooling COP @95°F (Rated)	3.6
Heating COP @47°F (Rated)	3.3
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
HSPF - Heating SeasonPerformace Factor *The capacities at 5°F does not refer to H42 testing conditions. Cooling Nominal Test Conditions: Heating Nomi ndoor: 80°F DB / 67°F WB Indoor: 70°F I	inal Test Conditions: DB / 60°F WB
	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.
Heating Rated Amps (A)	30.
Compressor (A)	22.0
Fan Motor (A)	1.6 x 2
Locked Rotor Amps (A)	22
MOP - Maximum Overcurrent Protection MCA - Minin Piping:	num Circuit Ampacity
Refrigerant Charge (Ibs.)	9.20
Liquid Line Connection (in., O.D.)	Ø3/8 x
Vapor Line Connection (in., O.D.)	Ø3/4 x
• · · · ·	<i>p j</i> + <i>x</i>
Maximum Total Piping ² (ft.)	
Maximum Total Piping ² (ft.) Min. / Max. ODU to IDU Piping ³ (ft.)	475.
	475. 32.8 / 229.
Min. / Max. ODU to IDU Piping ³ (ft.)	475. 32.8 / 229. 180.
Min. / Max. ODU to IDU Piping³ (ft.) Piping Length⁴ (no add'I refrigerant, ft.)	475. 32.8 / 229. 180. t.) 98.

ODU = Outdoor Unit

reatures.			
 R1 Scroll (Variable Speed) Compressor Auto operation Auto restart Self diagnosis 	 Defrost / De Low ambien down to 14° Soft start 	t cooling	• Restart delay (three [3] minutes)
Optional Accessories	:	Requir	ed⁵ Accessories:
 PI-485 - PMNFP14A1 AC Smart 5 - PACS5A000 Drain Pan Heater - PQSF Low Ambient Wind Baffl Down to -40°F) -PQCA0, P/ Without PQCA0 Cooling 	11200 e (Cooling Opera AG-HS4/PAGHS-5	☐ 3 Port ☐ 4 Port tion 4 Port conditioners and systems) must b components to r your contractor www.energystar ENERGY STAR m	BD Unit - PMBD3620 BD Unit - PMBD3630 BD Unit - PMBD3640 BD Unit - PMBD3641 d installation of equipment is critical hal performance. Split system air heat pumps (excluding ductless e matched with appropriate coil meet ENERGY STAR* criteria. Ask for details or visit gov. (ENERGY STAR* and the ark are registered trademarks S. Environmental Protection





p	
Туре	R1 Scroll
Quantity	1
Oil / Type	FVC68D

Propeller
2
Brushless Digitally Controlled/Direct
1,942 x 2

Notes:

1. Acceptable operating voltage: 187V - 253V.

2. Piping lengths are equivalent.

 180.4 ft. of Main Piping + 49.2 ft. of Branch Piping.
 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. 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. Capacity is rated 0 ft. above sea level, with a 0 ft. level difference between ODU

and IDUs, and the following refrigerant pipe lengths:

LMU483 / 543 / 601HV: 16.4 ft. Main + (16.4 ft. Branch x 8) = 147.6 ft. 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 condi-

tions. 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.

Agency.)

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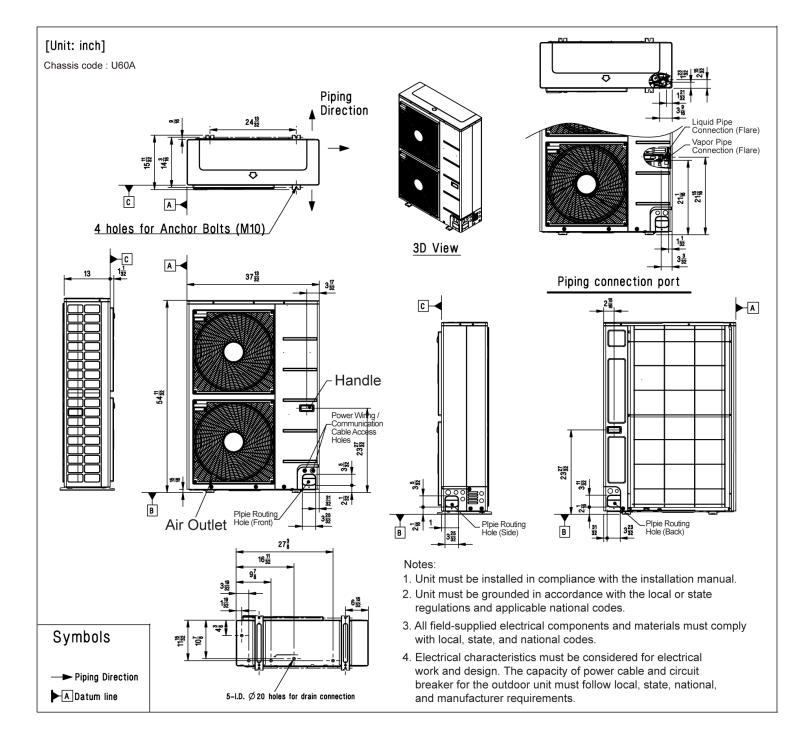
Job Name/Location:

LMU543HV Multi F MAX Outdoor Unit 4.5 Ton Heat Pump



Date:

PO No.:

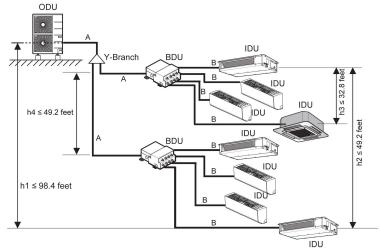


LMU543HV Multi F MAX Outdoor Unit 4.5 Ton Heat Pump



Date: _ PO No.: _

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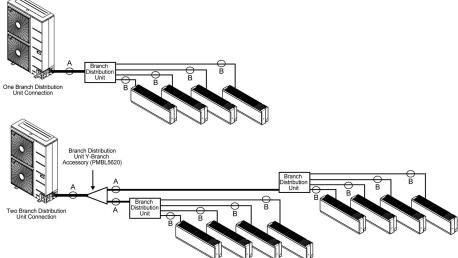


Example: outdoor unit with eight (8) indoor units and two (2) branch distribution units connected. ODU: Outdoor Unit. IDU: Indoor Unit. BDU: Branch Distribution Unit(s). A: Main Pipe. B: Branch Pipe (Branch Distribution Unit[s] to Indoor Unit[s]).

Multi F MAX Outdoor Unit Refrigerant Piping System Limitations.

Total piping length (ΣA + ΣB)		≤475.7 feet	
		Minimum (ΣA)	16.4 feet
Pipe Length	Main pipe (Outdoor Unit to Branch Distribution Units: A)	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
		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.