Job Name/Location:

Tag No:

D	a	t	e	;

PO No.:

Architect:

Engr:

Rep: (Company)

LMU421HHV Multi F MAX with LGRED° Outdoor Unit 3.5 Ton Heat Pump

For:

GC:

Mech:

(Project Manager)

File

Approval

Performance:

Feriormance.	
Cooling Capacity (MinRated-Max., Btu/h)	10,800~42,000~53,000
Heating Capacity (MinRated-Max., Btu/h)	12,420~48,000~54,500
Max. Heating Capacity at 17°F (Btu/h)	53,330
Max. Heating Capacity at 5°F (Btu/h)*	48,450
Max. Heating Capacity at -4°F (Btu/h)	42,670
Max. Heating Capacity at -13°F (Btu/h)	37,640
Cooling COP @95°F (Rated)	4.05
Heating COP @47°F (Rated)	3.80
SEER 2 (Ducted / Non-Ducted)	19.0 / 21.5
EER 2 (Ducted / Non-Ducted)	13.1 / 13.8
HSPF 2 (Non-Ducted)	11.0 / 8.7
HSPF 2 (Ducted)	10.0 / 7.8

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) 28.4 Heating Rated Amps (A) 28.4 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.)		11.46
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	t, 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 Auto operation Auto restart Self diagnosis 	 Defrost / Deicing Low ambient cooling down to 14°F Soft start 	 Restart delay (three [3] minutes) Factory installed Drain Pan Heater
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Optional Accessories:

🗆 PI-485 - PMNFP14A1	2 Port BD Unit - PMBD3620
AC Smart 5 - PACS5A000	□ 3 Port BD Unit - PMBD3630
Low Ambient Wind Baffle (Cooling	4 Port BD Unit - PMBD3640
operation to -4°F) - PAG-HS4 / PAG-HS5	4 Port BD Unit - PMBD3641

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For a complete list of available accessories, contact your LG representative.
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For continual product development, LG reserves the right to change specifications without notice.

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Required⁵ Accessories:



Resubmit

Other



Operating Range:

Cooling (°F DB)	14 to 118
Heating (°F WB)	-13 to +64
Unit Data:	
Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (Cool / Heat) ±1 dB(A) ⁶	54 / 56
Net / Shipping Weight (lbs.)	218 / 243
Heat Exchanger Coating	Gold Fin™
Minimum No. of Indoor Units	2
Maximum No. of Indoor Units	6
Compressor:	
Туре	R1 Scroll

Туре	R1 Scroll
Quantity	1
Oil / Type	FVC68D

Fan:	
Туре	Propeller
Quantity	2
Motor / Drive	Brushless Digitally Controlled/Direct
Max. Airflow Rate (CFM)	2,119 x 2

Notes:

- 1. Acceptable operating voltage: 187V 253V.
- 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.
- 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 Std. 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.
- 8. All power / commuication 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.
- See the Engineering Manual Capacity Tables for ODU sensible and latent capacities.
 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 0 ft. level difference between ODU and IDUs, and the following refrigerant pipe lengths:
 - LMU361HHV: 16.4 ft. Main + (16.4 ft. Branch x 5) = 98.4 ft. LMU421HHV: 16.4 ft. Main + (16.4 ft. Branch x 6) = 114.8 ft.
 - LMU480HHV: 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 conditions.



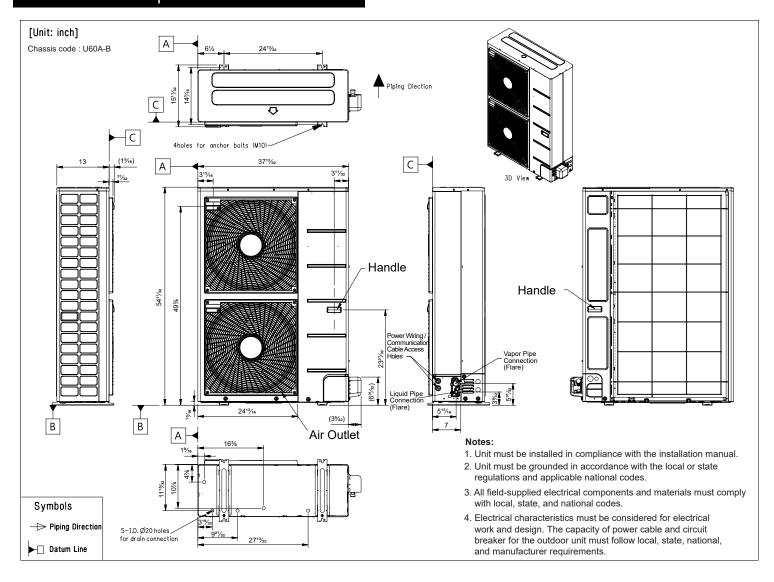
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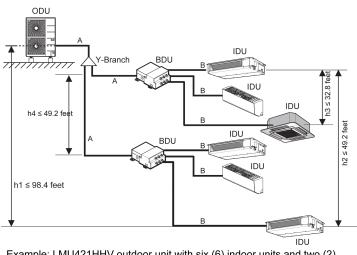


LMU421HHV Multi F MAX with LGRED° Outdoor Unit 3.5 Ton Heat Pump



Tag No.: Date:

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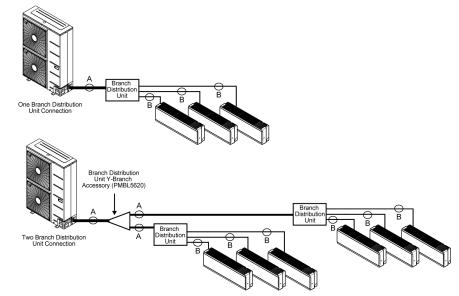


Example: LMU421HHV outdoor unit with six (6) indoor units and two (2) branch distribution units connected. ODU: Outdoor Unit. IDU: Indoor Unit. BDU: Branch Distribution Unit(s). A: Main Pipe. B: Branch Pipe (Branch Distribution Unit[s] to Indoor Unit[s]).

Multi F MAX with LGRED Outdoor Unit Refrigerant Piping System Limitations.

	Total piping length (ΣA + ΣB)		≤475.7 feet
Pipe Length	Main nine (Outdoor Unit to Drough Distribution United A)	Minimum for Each (A) Piping Segment	16.4 feet
	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
religen of pipe in reet/	Branch pipe (Branch Distribution Units to Indoor Units: B)	Minimum	16.4 feet
	Branch pipe (Branch Distribution Onits to Indoor Onits: B)	Maximum	≤49.2 feet
Elevation Differential	Il Elevation mitations are Between the farthest two indoor units (h2) Between branch distribution unit and farthest connected indoor unit(s) (h3)		≤98.4 feet
(All Elevation			≤49.2 feet
Limitations are			≤32.8 feet
Measured in Actual Feet)	Between branch distribution units (h4)		≤49.2 feet

Installing the Unit



Multi F MAX with LGRED 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.	