

Job Name/Location:

Tag #: CU-1

Date:

For:  File  Resubmit

PO No.:

Approval  Other

Architect:

GC:

Engr:

Mech:

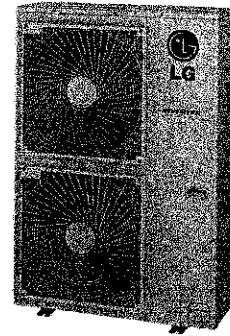
Rep:

(Company)

(Project Manager)

# LMU540HV

## Multi F MAX Inverter Heat Pump Outdoor Unit



### Performance:

Capacity (Btu/h)	54,000
Cooling Power Input (kW)	5.10
Heating Power Input (kW)	5.34

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)	208-230/60/1
MOP (A)	40
MCA (A)	26.4
Cooling Rated Amps (A)	21
Heating Rated Amps (A)	21
Compressor (A)	18.5
Fan Motor (A)	2.5

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

### Piping:

Refrigerant Charge (lbs)	9.7
Liquid Line (in, OD)	3/8 (1 Each)
Vapor Line (in, OD)	3/4 (1 Each)
Max Total Piping (ft) <sup>2</sup>	476
Max ODU to IDU Piping (ft)	230
Piping Length (no add'l refrigerant, ft)	147
Max Elevation between ODU and IDU (ft)	98
Max Elevation between IDU and IDU (ft)	49

ODU - Outdoor Unit IDU - Indoor Unit

### Controls Features:

- Auto operation
- Auto restart operation
- Defrost/Deicing
- Inverter (variable speed compressor)
- Night Quiet Operation
- Low ambient operation to 14F (cooling mode)
- Restart delay (3-minutes)
- Self diagnosis
- Soft start

### Standard Features:

- Limited Seven Year Compressor Warranty
- Limited Five Year Functional Parts Warranty

### Required<sup>3</sup> Accessories:

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

### Optional Accessories:

- PI-485 Integration Board - PMNFP14A0
- AC Smart II - PQCSW320A1E
- AC Ez - PQCSZ250S0
- Power Distribution Indicator - PQNUD1S00
- Y-Branch - PMBL5620

### Operating Range:

Cooling (°F DB)	14-118
Heating (°F WB)	0-64

### Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure <sup>4</sup> Max (Cool/Heat) ±3 dB(A)	54/56
Net Unit Weight (lbs)	214
Shipping Weight (lbs)	236
Heat Exchanger Coating	GoldFin™
Min Number of Indoor Units	2
Max Number of Indoor Units	8
Communication Cable (No. x AWG) <sup>5</sup>	4 x 16

AWG - American Wire Gage

### Compressor:

Quantity	1
Type	Twin-Rotary
Oil/Type	FVC68D

### Fan:

Type	Propeller
Quantity	2
Fan Motor/Drive	Brushless Digitally Controlled/Direct
Airflow Rate (CFM)	2,119

### Notes:

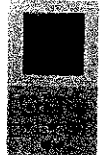
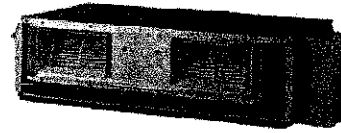
1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. At least one BD Unit is required for system operation; a maximum of two can be installed per ODU with use of Y-branch accessory (PMBL5620).
4. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996.
5. All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded and must comply with applicable local and national code.
6. See Engineering Manual Capacity Tables for ODU sensible and latent capacities.
7. See 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.
8. Power wiring cable size must comply with the applicable local and national code.
9. This data is rated 0 ft above sea level, with 32.8 ft of refrigerant line and a 0 ft level difference between outdoor and indoor units. All capacities are net with a combination ratio between 95 - 105%.
10. Must follow installation instructions in the applicable LG installation manual.
11. See Engineering Manual Capacity Tables for ODU capacity at design conditions.



Job Name/Location:

Tag #: **A40-1**

Date: \_\_\_\_\_ For:  File  Resubmit  
 PO No.: \_\_\_\_\_  Approval  Other \_\_\_\_\_  
 Architect: \_\_\_\_\_ GC: \_\_\_\_\_  
 Engr: \_\_\_\_\_ Mech: \_\_\_\_\_  
 Rep: \_\_\_\_\_  
(Company) (Project Manager)



PQRVCLOQW

**LMHN360HV**  
 Multi F High Static Duct  
 36,000 Btu/h Indoor Unit



**Performance:**

Nominal Capacity (Btu/h)	36,000
<small>Cooling Nominal Test Conditions:</small> Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB	<small>Heating Nominal Test Conditions:</small> Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB

**Electrical:**

Power Supply (V/Hz/Ø)	208-230/60/1
Rated Amps (A)	1.4

**Piping:**

Liquid Line (in, OD)	3/8
Vapor Line (in, OD)	5/8
Drain OD, ID (in)	1-1/4, 1
Temperature Sensor	Thermistor

**Features:**

- Inverter (variable speed fan)
- Internal condensate pump
- ESP control
- Hot start
- Auto restart
- Child lock
- Group control
- Sleep mode
- Timer (on/off)

**Included Accessories:**

- Simple Controller with Mode (White) - PQRVCLOQW

**Optional Accessories (sold separately)**

- LG Programmable Controller - PREMTB10U
- Simple Controller with Mode (Black) - PQRVCLOQ
- AC Smart II - PQCSW320A1E
- ACP without Digital I/O - PQCPA11A03
- ACP with Digital I/O - PQCPB11A0E
- LonWorks Gateway - PQNFB16A1
- BACnet Gateway - PQNFB17B0
- AC Ez - PQCSZ250S0
- Dry Contact Unit Dry Contact Unit (1 contact, 24 VAC external power) - PQDSB1
- Dry Contact Unit Dry Contact Unit (2 input, power from indoor unit) - PQDSBC
- Dry Contact for third party thermostat - PQDSBNGCM1
- Remote Temperature Sensor - PQRSTA0

**Operating Range:**

Cooling Max (°F WB)	76
Heating Min (°F DB)	59

**Unit Data:**

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure <sup>2</sup> H/M/L (±3 dB(A))	44/42/40
Filter Type	Washable
Net Unit Weight (lbs)	91
Shipping Weight (lbs)	101

**Fan:**

Type	Sirocco
Quantity	2
Motor/Drive	Brushless Digitally Controlled/Direct
Airflow Rate H/M/L (CFM)	1130/953/706
External Static Pressure <sup>3</sup> (in wg)	0.39

**Notes:**

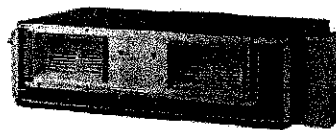
1. Acceptable operating voltage: 187V-253V.
2. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996.
3. Adjust fan speed to correct for static pressure increases when using field supplied air filter.
4. See Engineering Manual for sensible and latent capacities.
5. All power/communication cable to be minimum 18 AWG, 4-conductor, stranded, shielded and must comply with applicable local and national code.
6. Power wiring cable size must comply with the applicable local and national codes.
7. This unit comes with a dry helium charge.
8. Corresponding refrigerant piping length is in accordance with standard length of each outdoor unit and the level difference is 0 ft. All capacities are net with a combination ratio between 95 - 105%.
9. Must follow installation instructions in the applicable LG installation manual.



Job Name/Location:

Tag #: **A40-2**

Date:	For: <input type="checkbox"/> File <input type="checkbox"/> Resubmit
PO No.:	<input type="checkbox"/> Approval <input type="checkbox"/> Other
Architect:	GC:
Engr:	Mech:
Rep:	
(Company)	(Project Manager)



PQRVCLOQW

**LMHN240HV**  
**Multi F High Static Duct**  
**24,000 Btu/h Indoor Unit**



**Performance:**

Nominal Capacity (Btu/h)	24,000
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)	208-230/60/1
Rated Amps (A)	0.9

**Piping:**

Liquid Line (in, OD)	1/4
Vapor Line (in, OD)	1/2
Drain OD, ID (in)	1-1/4, 1
Temperature Sensor	Thermistor

**Features:**

- Inverter (variable speed fan)
- Internal condensate pump
- ESP control
- Hot start
- Auto restart
- Child lock
- Group control
- Sleep mode
- Timer (on/off)

**Included Accessories:**

- Simple Controller with Mode (White) - PQRVCLOQW

**Optional Accessories (sold separately)**

- LG Programmable Controller - PREMTB10U
- Simple Controller with Mode (Black) - PQRVCLOQW
- AC Smart II - PQCSW320A1E
- ACP without Digital I/O - PQCPA11A03
- ACP with Digital I/O - PQCPB11A0E
- LonWorks Gateway - PQNFB16A1
- BACnet Gateway - PQNFB17B0
- AC Ez - PQCSZ250S0
- Dry Contact Unit Dry Contact Unit (1 contact, 24 VAC external power) - PQDSB1
- Dry Contact Unit Dry Contact Unit (2 input, power from indoor unit) - PQDSB2
- Dry Contact for third party thermostat - PQDSBNGCM1
- Remote Temperature Sensor - PQRSTA0

**Operating Range:**

Cooling Max (°F WB)	76
Heating Min (°F DB)	59

**Unit Data:**

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure <sup>2</sup> H/M/L (±3 dB(A))	37/36/35
Filter Type	Washable
Net Unit Weight (lbs)	80
Shipping Weight (lbs)	91

**Fan:**

Type	Sirocco
Quantity	2
Motor/Drive	Brushless Digitally Controlled/Direct
Airflow Rate H/M/L (CFM)	688/618/530
External Static Pressure <sup>3</sup> (in wg)	0.39

**Notes:**

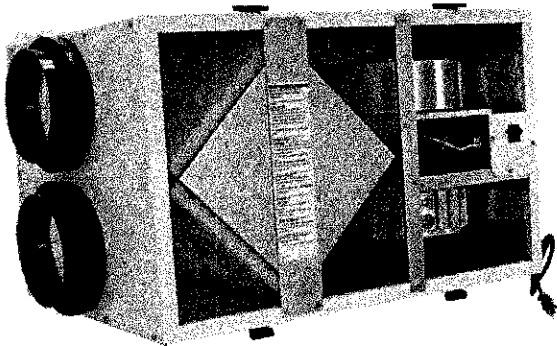
1. Acceptable operating voltage: 187V-253V.
2. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996.
3. Adjust fan speed to correct for static pressure increases when using field supplied air filter.
4. See Engineering Manual for sensible and latent capacities.
5. All power/communication cable to be minimum 18 AWG, 4-conductor, stranded, shielded and must comply with applicable local and national code.
6. Power wiring cable size must comply with the applicable local and national codes.
7. This unit comes with a dry helium charge.
8. Corresponding refrigerant piping length is in accordance with standard length of each outdoor unit and the level difference is 0 ft. All capacities are net with a combination ratio between 95 – 105%.
9. Must follow installation instructions in the applicable LG installation manual.



# EV300



## Indoor Unit



## Specifications

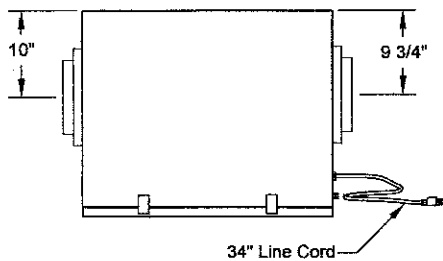
Ventilation Type: Static Plate, Heat and Humidity Transfer				
Typical Airflow Range: 150-300 CFM				
Number Motors: One, 0.2 hp				
V	HZ	Phase	Input Watts	FLA
120	60	Single	315 @ 297 CFM	3.3
Control: On board 24 VAC transformer/relay package with switched dry contacts				
Filters: MERV 8, spun polyester media. 10-1/2" x 21-3/4" x 1"				
Weight: 72 lbs (unit), 85 lbs (in carton), 125 lbs (on pallet)				
Shipping Dimensions: 32"L x 21-1/2"W x 29"H (in carton) 44" L x 34" W x 34" H (on pallet)				
Controls: PTL – Percentage Timer Control FM – Percentage Timer Control with Furnace Interlock PBL – Push Button Point-of-Use Controls				
Accessories: Wall Caps Back Draft Dampers				

## G5 Performance

Airflow CFM	ESP in H <sub>2</sub> O	Temp EFF%	Total EFF% Winter/Summer*
170	1.0	78	73/59
191	0.9	77	71/57
215	0.8	75	69/55
256	0.7	73	66/51
277	0.6	71	65/49
295	0.5	70	63/47
311	0.4	69	62/46

\* (See HVI certification report on page 72 for complete certified rating).

## Dimensions



EA: Exhaust Air to outdoors  
 OA: Outdoor Air intake  
 RA: Room Air to be exhausted  
 FA: Fresh Air to inside

