

## Benefits of Multi F Systems

- Individual zone control
- Maximum flexibility
- Operating ranges of 14°F to 118°F (DB) in cooling and 0°F to 64°F(WB) in heating
- Quiet and comfortable environment
- Safer and easier installation with reduced ductwork
- Cost efficient
- Lightweight and compact system components



#### About LG Electronics, Inc.

LG Electronics, Inc. is a global leader and technology innovator in consumer electronics, mobile communications, and home appliances, employing more than 213,000 people in more than 60 countries worldwide. LG's commercial air conditioning business unit was established in 1968, and offers VRF, Multi F, duct-free split systems, packaged terminal air conditioners (PTACs), and room air conditioners.

With LG, it's all possible.™

# Vertical-Horizontal Air Handling

## Multi-Zone System Indoor Unit

Multi F multi-zone comfort solutions are air-conditioning systems that "split" into indoor and outdoor units, providing a smart alternative to both central HVAC and window-mounted air conditioners. These Inverter heat pump systems are available in a variety of configurations to suit different cooling and heating situations.

## Multi F Vertical-Horizontal Air Handling Units

LG's Multi F Vertical-Horizontal Air Handling units are designed for high-speed air volume against an external static pressure up to 1.00"WG.

These units are installed fully concealed behind a wall or above a finished ceiling, and can operate either in a vertical (upflow) or horizontal (left) discharge configuration. Casing is manufactured of 22-gauge precoated metal with a high-gloss baked enamel finish. Vertical-Horizontal Air Handling units can accept an internal LG electrical strip heater (sold separately). An integral rack, accessible from the front, holds a field-supplied16" x 20" x 1" filter cartridge. Each Vertical-Horizontal Air Handling unit includes its own LG-supplied wired controller.



MULTI **F** 

## Flexible Comfort

Choose from Low, Med, High, and Auto settings for Cooling mode; and Low, Med, High, and Auto settings for Heating mode. Each of the settings can be field-adjusted from the factory setting (RPM / ESP). The Auto setting adjusts the fan speed based on the difference between the controller setting and the room temperature.

## **Quality Commitment**

LG is committed to the success of air-conditioning projects. We provide technical support during installation, and offer a variety of classes designed for installers and service providers. Classes are conducted at LG's training centers and in field locations at various times throughout the year and upon special request.

## Art Cool™ Vertical-Horizontal Multi F System Air Handling Unit

#### LMVN240HV

24,000 Btu/h Nominal Cooling Capacity 27,000 Btu/h Nominal Heating Capacity

### LMVN360HV

36,000 Btu/h Nominal Heating Capacity 40,000 Btu/h Nominal Heating Capacity







LMVN240-360HV

#### **Features**

- Inverter (Variable speed fan)
- Control lock function
- Dehumidification function
- Two thermistor control

- · External static pressure control
- Auto operation
- Auto restart operation
- Self-diagnostics function
- Includes wired controller
- Accepts an internal LG electrical strip heater (sold separately)

## Warranty: Five (5) years parts.

Model Number	LMVN240HV	LMVN360HV
Nominal Cooling Capacity (Btu/h)	24,000	36,000
Nominal Heating Capacity (Btu/h)	27,000	40,000
Fan		
Туре	Sircocco	Sircocco
Motor Output (W) x Qty.	96 x 1	182 x 1
Motor/Drive	Brushless Digitally Controlled / Direct	Brushless Digitally Controlled / Direct
Airflow Rate (H/M/L) at 0.3"WG ESP (CFM)	710 / 640 / 480	990 / 880 / 800
Airflow Rate (H/M/L) at 0.5"WG ESP (CFM)	710 / 640 / 480	990 / 880 / 800
Unit Data		
Refrigerant Type / Control	R410A / EEV	R410A / EEV
Power Supply (Phase / V / Hz)	1 / 208-230 / 60	1 / 208-230 / 60
Rated Amps (A)	0.59	1.12
Sound Pressure Level ±3 dB(A) (H/M/L) at 0.3"WG (CFM)	43 / 42 / 41	45 / 44 / 43
Dimensions (W x H x D, in.)	18 x 48-5/8 x 21-1/4	18 x 48-5/8 x 21-1/4
Net Unit Weight (lbs.)	117	121
Shipping Weight (lbs.)	130	135
Power Wiring / Communications Cable (No. x AWG)	4 x 18	4 x 18
Heat Exchanger (Row x Column x Fin / inch) x Number	(2 x 24 x 18) x 2	(3 x 24 x 18) x 2
Piping		
Liquid (in.)	1/4	3/8
Vapor (in.)	1/2	5/8
Primary Drain I.D. (in.)	3/4 FPT	3/4 FPT
Secondary Drain I.D. (in.)	3/4 FPT	3/4 FPT

Job Name/Location:

Date:
For:
■ File
■ Resubmit

PO No.:
■ Approval
■ Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

@ LG

## LMVN240HV

Multi F Vertical/Horizontal Air Handling Unit 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 (V¹/Hz/Ø)	208-230/60/1
Rated Amps (A)	0.59

#### Piping:

Liquid Line (in, OD)	1/4
Vapor Line (in, OD)	1/2
Drain OD, ID (in)	3/4 FPT
Temperature Sensor	Thermistor

#### Features:

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

## **Optional Accessories (sold separately)**

- LG Programmable Controller PREMTB10U
- Wireless Handheld Remote Controller<sup>2</sup> PQWRHDF0
- 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
- 5 kW Electric Heater ANEH053B1
- 10 kW Electric Heater ANEH103B2

#### **Operating Range:**

Tag #:

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

#### **Unit Data:**

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure <sup>3</sup> H/M/L (±3 dB(A))	43/42/41
Net Unit Weight (lbs)	117
Shipping Weight (lbs)	130

#### Fan:

Туре	Sirocco
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Airflow Rate H/M/L (CF	A) 710/640/480
External Static Pressure	(in wg) 0.5

#### Standard Features:

- Access Panel for Field Supplied Air Filter
  - (16 x 20 x 1 inch)

#### Notes:

- 1.Acceptable operating voltage: 187V-253V.
- 2.Requires an LG Programmable Thermostat.
- 3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996.
  4. Adjust fan speed to correct for static pressure increases when using field supplied air
- 4.Adjust fan speed to correct for static pressure increases when using field supplied air filter or heat kit.
- 5.See Engineering Manual for sensible and latent capacities.
- 6.All power/communication cable to be minimum 18 AWG, 4-conductor, stranded, shielded and must comply with applicable local and national code.
- 7. Power wiring cable size must comply with the applicable local and national codes.
- 8.This unit comes with a dry helium charge.
- 9.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%.
- 10.Must follow installation instructions in the applicable LG installation manual.





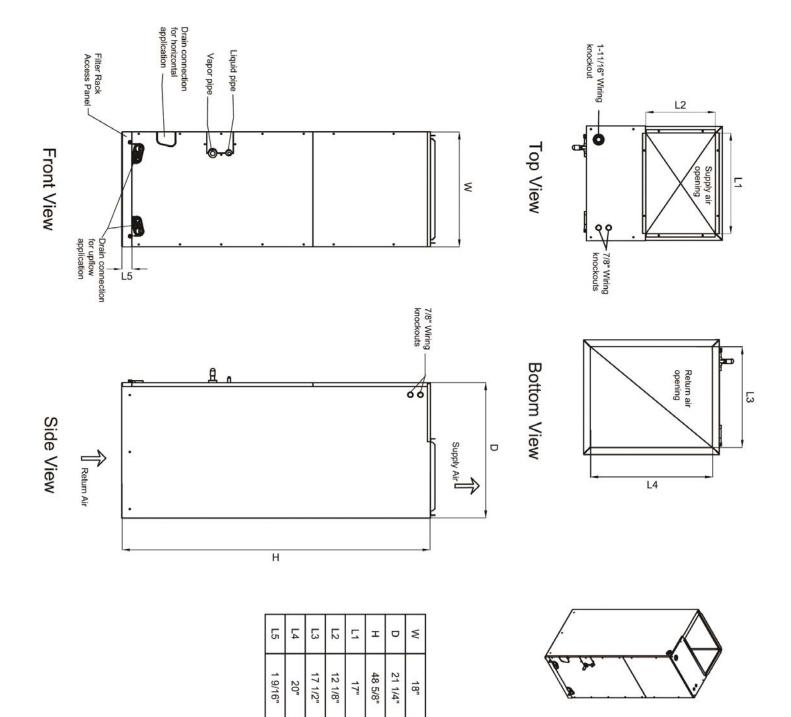


## LMVN240HV

Multi F Vertical/Horizontal Air Handling Unit 24,000 Btu/h Indoor Unit



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



## LMVN360HV

Multi F Vertical/Horizontal Air Handling Unit 36,000 Btu/h Indoor Unit

#### Performance:

Nominal Capacity (Btu/h)	36,000		
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 (V¹/Hz/Ø)	208-230/60/1
Rated Amps (A)	1.12

#### Piping:

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

#### **Features:**

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

## **Optional Accessories (sold separately)**

- LG Programmable Controller PREMTB10U
- Wireless Handheld Remote Controller<sup>2</sup> PQWRHDF0
- 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
- 5 kW Electric Heater ANEH053B1
- 10 kW Electric Heater ANEH103B2

#### **Operating Range:**

Tag #:

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

#### **Unit Data:**

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure <sup>3</sup> H/M/L (±3 dB(A))	45/44/43
Net Unit Weight (lbs)	121
Shipping Weight (lbs)	135

#### Fan:

Туре	Sirocco	
Quantity	1	
Motor/Drive	Brushless Digitally Controlled/Direct	
Airflow Rate H/M/L (CF	M) 990/880/800	
External Static Pressure <sup>4</sup> (in wg) 0.5		

#### Standard Features:

- Access Panel for Field Supplied Air Filter
  - (16 x 20 x 1 inch)

#### Notes:

- 1.Acceptable operating voltage: 187V-253V.
- 2.Requires an LG Programmable Thermostat.
- 3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996. 4. Adjust fan speed to correct for static pressure increases when using field supplied air
- filter or heat kit.
- 5. See Engineering Manual for sensible and latent capacities.
- 6.All power/communication cable to be minimum 18 AWG, 4-conductor, stranded, shielded and must comply with applicable local and national code.
- 7. Power wiring cable size must comply with the applicable local and national codes. 8. This unit comes with a dry helium charge.
- 9.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%.
- 10. Must follow installation instructions in the applicable LG installation manual.







## LMVN360HV

Multi F Vertical/Horizontal Air Handling Unit 36,000 Btu/h Indoor Unit



	Tag #:		
	Date:		
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