Job Name/Location: **Tag #:**

Date: For: ☐ File ☐ Resubmit ☐ Approval ☐ Other

PO No.:

Architect: GC:

Engr: Mech:

Rep:
(Company) (Project Manager)

LMU187HV
Multi F Inverter Heat Pump Outdoor Unit

Performance:

Capacity (Btu/h)	18,000
Cooling Power Input (kW)	1.12
Heating Power Input (kW)	1.29

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[1]/Hz/Ø)	208-230/60/1
MOP (A)	15
MCA (A)	11.0
Cooling Rated Amps (A)	11.4
Heating Rated Amps (A)	11.9
Compressor (A)	8.2
Fan Motor (A)	0.40

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Piping:

Refrigerant Charge (lbs)	4.19
Liquid Line (in, OD)	1/4 (2 Each)
Vapor Line (in, OD)	3/8 (2 Each)
Max Total Piping (ft)[2]	164.0
Max ODU to IDU Piping (ft)	82.0
Piping Length (no add'l refrigerant, ft)	49.2
Max Elevation between ODU and IDU (ft)	49.2
Max Elevation between IDU and IDU (ft)	24.6

ODU - Outdoor Unit IDU - Indoor Unit

Controls Features:

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

Standard Features:

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

Optional Accessories:

☐ PI-485 Integration Board (PMNFP14A0)
☐ AC Smart II (PQCSW320A1E)
☐ AC Ez (PQCSZ250S0)

Operating Range:

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

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (±3 dB(A))[3]	51
Net Unit Weight (lbs)	123.5
Shipping Weight (lbs)	132.2
Heat Exchanger Coating	GoldFin™
Min Number of Indoor Units	2
Max Number of Indoor Units	2
Communication Cable (No. x AWG)[3]	4 x 18

AWG - American Wire Gage

Compressor:

Quantity	1
Type	Twin-Rotary Inverter
Oil/Type	FVC68D

Fan:

Type	Propeller
Quantity	1
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.Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996.
4.All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded and must comply with applicable local and national code.
5.See Engineering Manual for sensible and latent capacities.
6.Power wiring cable size must comply with the applicable local and national code.
7.This data is rated 0 ft above sea level, with 24.6 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%.
8.Must follow installation instructions in the applicable LG installation manual.

System	Combined With	Nominal Cooling Capacity	EER	SEER	Nominal Heating Capacity	COP	HSPF	Low Heating Capacity	COP	Energy Star
LMU187HV	Non-Ducted Indoor Units	15,600	14.0	21.0	17,000	3.9	9.2	10,000	2.9	Yes
	Ducted Indoor Units	14,800	11.9	17.7	16,800	3.8	8.8	9,900	2.8	-
	Mixed Ducted & Non-Ducted	15,200	12.95	19.35	16,900	3.9	9.0	9,950	2.8	-

For continual product development, LG reserves the right to change specifications without notice.

Job Name/Location:

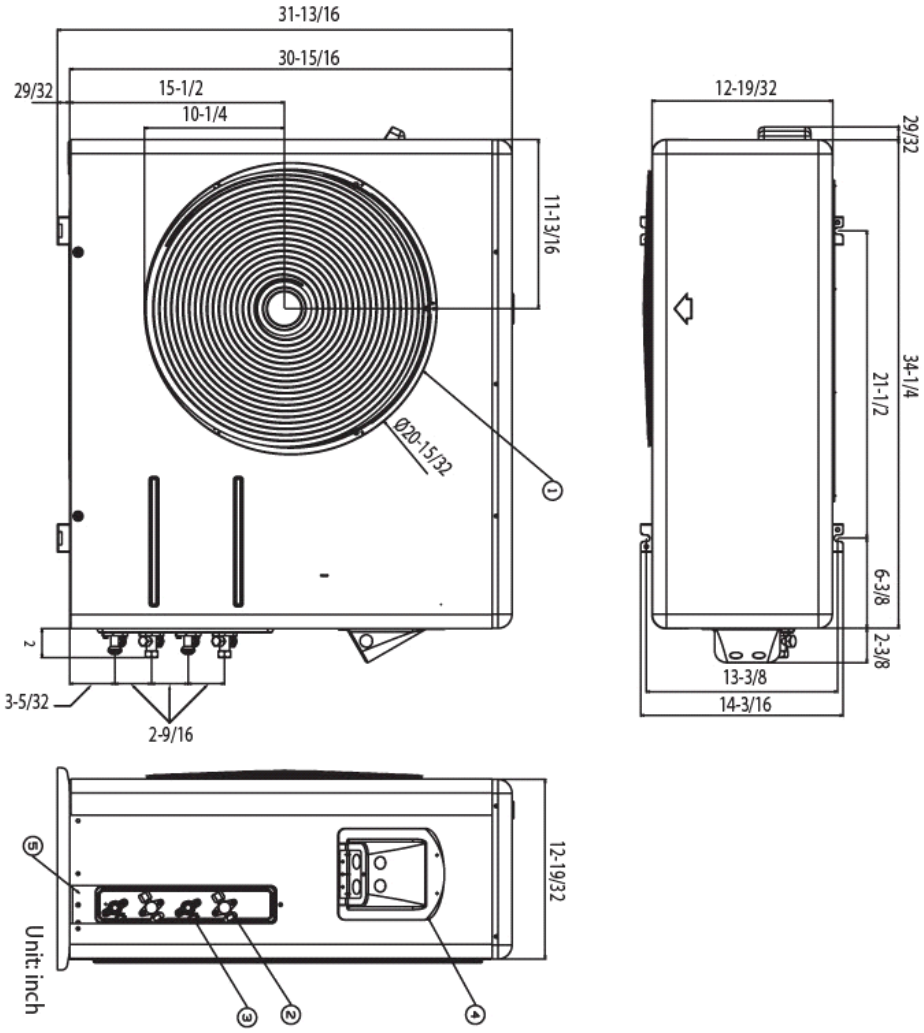
LMU187HV

Multi F Inverter Heat Pump Outdoor Unit

Tag #:

Date:

PO No.:



No.	Part Name	Remarks
1	Air discharge grille	
2	Gas pipe connection	
3	Liquid pipe connection	
4	Power & transmission connection	
5	Earth screw	
6	Main service valve(Liquid)	
7	Main service valve(Gas)	

Job Name/Location:

LMU187HV
Flex Multi Inverter Heat Pump Outdoor Unit

Tag #:

Date:

PO No.:

Non-Ducted Indoor Units

Cooling

Active IDUs	Combination of Indoor Units (kBtu/h Class)					Room Capacity				Total Capacity						Input (W)			EER	SEER
										Min		Rated								
UNIT	UNIT A	UNIT B	UNIT C	UNIT D	Total	UNIT-A (Btu/h)	UNIT-B (Btu/h)	UNIT-C (Btu/h)	UNIT-D (Btu/h)	Btu/h	kW	Btu/h	kW	Btu/h	kW	Min	Rated	Max		
2 Units	9	9	-	-	18	7,800	7,800	-	-	10,798	3.16	15,600	4.57	19,000	5.57	924	1,118	2,370	14.0	21.0
	9	12	-	-	21	6,686	8,914	-	-	10,798	3.16	15,600	4.57	19,000	5.57	924	1,118	2,370	14.0	21.0
	12	12	-	-	24	7,800	7,800	-	-	10,798	3.16	15,600	4.57	19,000	5.57	924	1,118	2,370	14.0	21.0

Heating

Active IDUs	Combination of Indoor Units (kBtu/h Class)					Room Capacity				Total Capacity						Input (W)			COP	HSPF
										Min		Rated								
UNIT	UNIT A	UNIT B	UNIT C	UNIT D	Total	UNIT-A (Btu/h)	UNIT-B (Btu/h)	UNIT-C (Btu/h)	UNIT-D (Btu/h)	Btu/h	kW	Btu/h	kW	Btu/h	kW	Min	Rated	Max		
2 Units	9	9	-	-	18	8,500	8,500	-	-	12,418	3.64	17,000	4.98	21,000	6.15	1,150	1,290	2,480	3.9	9.2
	9	12	-	-	21	7,286	9,714	-	-	12,418	3.64	17,000	4.98	21,000	6.15	1,150	1,290	2,480	3.9	9.2
	12	12	-	-	24	8,500	8,500	-	-	12,418	3.64	17,000	4.98	21,000	6.15	1,150	1,290	2,480	3.9	9.2

Ducted Indoor Units

Cooling

Active IDUs	Combination of Indoor Units (kBtu/h Class)					Room Capacity				Total Capacity						Input (W)			EER	SEER
										Min		Rated								
UNIT	UNIT A	UNIT B	UNIT C	UNIT D	Total	UNIT-A (Btu/h)	UNIT-B (Btu/h)	UNIT-C (Btu/h)	UNIT-D (Btu/h)	Btu/h	kW	Btu/h	kW	Btu/h	kW	Min	Rated	Max		
2 Units	9	9	-	-	18	7,400	7,400	-	-	10,798	3.16	14,800	4.34	19,000	5.57	945	1,244	2,370	11.9	17.7
	9	12	-	-	21	6,343	8,457	-	-	10,798	3.16	14,800	4.34	19,000	5.57	945	1,244	2,370	11.9	17.7
	12	12	-	-	24	7,400	7,400	-	-	10,798	3.16	14,800	4.34	19,000	5.57	945	1,244	2,370	11.9	17.7

Heating

Active IDUs	Combination of Indoor Units (kBtu/h Class)					Room Capacity				Total Capacity						Input (W)			COP	HSPF
										Min		Rated								
UNIT	UNIT A	UNIT B	UNIT C	UNIT D	Total	UNIT-A (Btu/h)	UNIT-B (Btu/h)	UNIT-C (Btu/h)	UNIT-D (Btu/h)	Btu/h	kW	Btu/h	kW	Btu/h	kW	Min	Rated	Max		
2 Units	9	9	-	-	18	8,400	8,400	-	-	12,418	3.64	16,800	4.92	21,000	6.15	1,170	1,306	2,480	3.8	8.8
	9	12	-	-	21	7,200	9,600	-	-	12,418	3.64	16,800	4.92	21,000	6.15	1,170	1,306	2,480	3.8	8.8
	12	12	-	-	24	8,400	8,400	-	-	12,418	3.64	16,800	4.92	21,000	6.15	1,170	1,306	2,480	3.8	8.8

Capacity data is based on the following conditions –

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

Refer to the EPDB Capacity Tables for capacities at other temperatures.

Job Name/Location:

LMU187HV
Flex Multi Inverter Heat Pump Outdoor Unit

Tag #:

Date:

PO No.:

Mixed Indoor Units

Cooling

Active IDUs	Combination of Indoor Units (kBtu/h Class)					Room Capacity				Total Capacity						Input (W)			EER	SEER
										Min		Rated								
UNIT	UNIT A	UNIT B	UNIT C	UNIT D	Total	UNIT-A (Btu/h)	UNIT-B (Btu/h)	UNIT-C (Btu/h)	UNIT-D (Btu/h)	Btu/h	kW	Btu/h	kW	Btu/h	kW	Min	Rated	Max		
2 Units	9	9	-	-	18	7,600	7,600	-	-	10,798	3.16	15,200	4.46	19,000	5.57	935	1,181	2,370	13.0	19.4
	9	12	-	-	21	6,515	8,685	-	-	10,798	3.16	15,200	4.46	19,000	5.57	935	1,181	2,370	13.0	19.4
	12	12	-	-	24	7,600	7,600	-	-	10,798	3.16	15,200	4.46	19,000	5.57	935	1,181	2,370	13.0	19.4

Heating

Active IDUs	Combination of Indoor Units (kBtu/h Class)					Room Capacity				Total Capacity						Input (W)			COP	HSPF
										Min		Rated								
UNIT	UNIT A	UNIT B	UNIT C	UNIT D	Total	UNIT-A (Btu/h)	UNIT-B (Btu/h)	UNIT-C (Btu/h)	UNIT-D (Btu/h)	Btu/h	kW	Btu/h	kW	Btu/h	kW	Min	Rated	Max		
2 Units	9	9	-	-	18	8,450	8,450	-	-	12,418	3.64	16,900	4.92	21,000	6.15	1,160	1,298	2,480	3.9	9.0
	9	12	-	-	21	7,243	9,657	-	-	12,418	3.64	16,900	4.92	21,000	6.15	1,160	1,298	2,480	3.9	9.0
	12	12	-	-	24	8,450	8,450	-	-	12,418	3.64	16,900	4.92	21,000	6.15	1,160	1,298	2,480	3.8	9.0

Capacity data is based on the following conditions –

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

Refer to the EPDB Capacity Tables for capacities at other temperatures.