

Job Name/Location:

Tag #:

Date:

For: File Resubmit

PO No.:

Approval Other _____

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

LMU247HV

Multi F Inverter Heat Pump Outdoor Unit



Performance:

Capacity (Btu/h)	24,000
Cooling Power Input (kW)	1.43
Heating Power Input (kW)	2.21

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)	25
MCA (A)	15.4
Cooling Rated Amps (A)	14.9
Heating Rated Amps (A)	14.9
Compressor (A)	11.6
Fan Motor (A)	0.40

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Piping:

Refrigerant Charge (lbs)	4.63
Liquid Line (in, OD)	1/4 (3 Each)
Vapor Line (in, OD)	3/8 (3 Each)
Max Total Piping (ft) ²	246.1
Max ODU to IDU Piping (ft)	82.0
Piping Length (no add'l refrigerant, ft)	73.8
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)	130.1
Shipping Weight (lbs)	138.8
Heat Exchanger Coating	GoldFin™
Min Number of Indoor Units	2
Max Number of Indoor Units	3
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
LMU247HV	Non-Ducted Indoor Units	19,200	13.4	21.7	26,400	3.5	9.4	16,200	2.6	Yes
	Ducted Indoor Units	18,000	11.8	16.4	26,200	3.4	8.5	16,400	2.6	-
	Mixed Ducted & Non-Ducted	18,600	12.6	19.05	26,300	3.5	8.95	16,300	2.6	-

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

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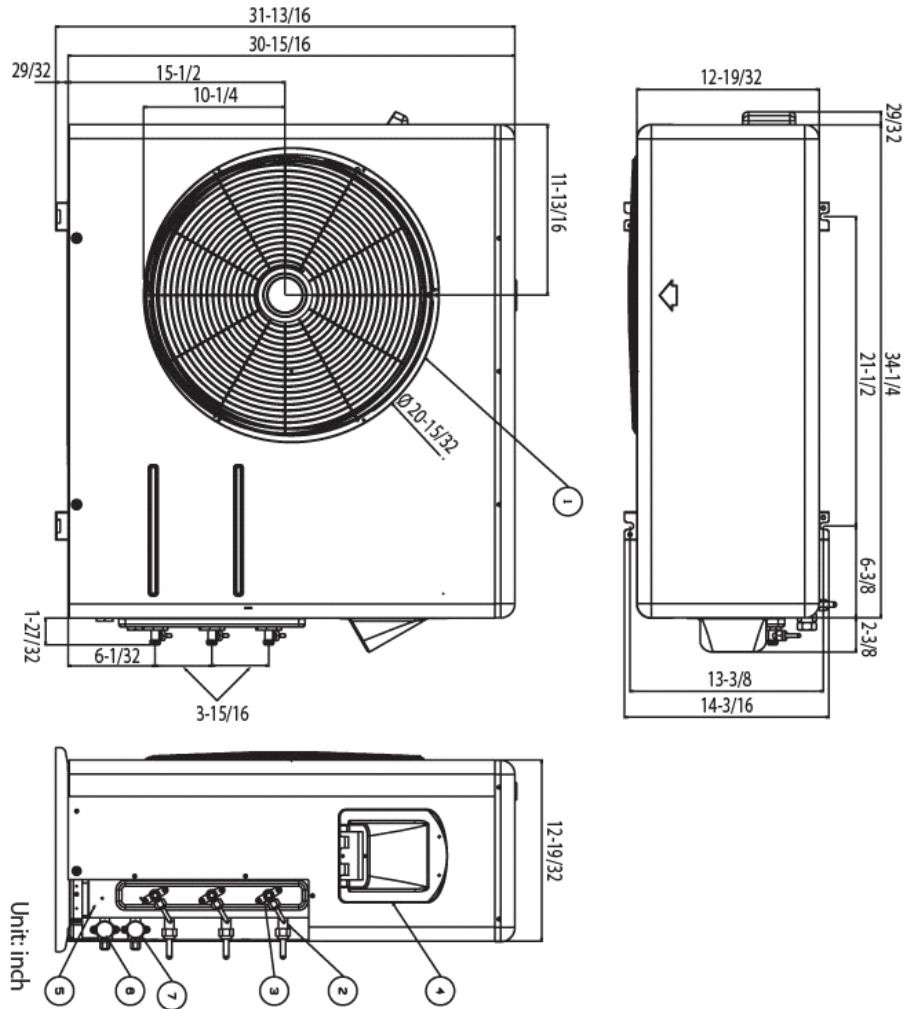
LMU247HV
Multi F Inverter Heat Pump Outdoor Unit



Tag #:

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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)	

LMU247HV

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	8,500	8,500	-	-	10,798	3.16	17,000	4.98	19,800	5.80	1,002	1,349	2,560	12.6	19.0
	9	12	-	-	21	7,586	10,114	-	-	11,100	3.25	17,700	5.19	23,100	6.77	1,044	1,383	2,830	12.8	19.0
	12	12	-	-	24	9,600	9,600	-	-	11,400	3.34	19,200	5.63	25,500	7.47	1,194	1,469	3,090	13.1	19.0
	9	18	-	-	27	6,400	12,800	-	-	11,400	3.34	19,200	5.63	27,500	8.06	1,284	1,469	3,090	13.1	19.0
	12	18	-	-	30	7,680	11,520	-	-	11,400	3.34	19,200	5.63	27,500	8.06	1,284	1,469	3,090	13.1	19.0
3 Units	9	9	9	-	27	6,400	6,400	6,400	6,400	11,700	3.43	19,200	5.63	28,800	8.44	1,200	1,431	3,050	13.4	21.7
	9	9	9	-	30	5,760	5,760	7,680	7,680	11,700	3.43	19,200	5.63	28,800	8.44	1,200	1,431	3,050	13.4	21.7
	9	12	12	-	33	5,236	6,982	6,982	6,982	11,700	3.43	19,200	5.63	28,800	8.44	1,200	1,431	3,050	13.4	21.7

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	10,120	10,120	-	-	12,418	3.64	20,240	5.93	23,700	6.95	1,200	1,951	2,660	3.0	7.7
	9	12	-	-	21	9,857	13,143	-	-	12,765	3.74	23,000	6.74	27,700	8.12	1,260	2,174	3,010	3.1	7.7
	12	12	-	-	24	13,200	13,200	-	-	16,200	4.75	26,400	7.74	29,040	8.51	1,368	2,320	3,100	3.3	8.2
	9	18	-	-	27	8,800	17,600	-	-	16,200	4.75	26,400	7.74	31,500	9.23	1,428	3,320	3,100	3.3	8.2
	12	18	-	-	30	10,560	15,840	-	-	16,200	4.75	26,400	7.74	31,500	9.23	1,428	2,320	3,100	3.3	8.2
3 Units	9	9	9	-	27	8,800	8,800	8,800	-	16,200	4.75	26,400	7.74	32,000	9.38	1,308	2,207	3,090	3.5	9.4
	9	9	9	-	30	7,920	7,920	10,560	-	16,200	4.75	26,400	7.74	32,000	9.38	1,308	2,207	3,090	3.5	9.4
	9	12	12	-	33	7,200	9,600	9,600	-	16,200	4.74	26,400	7.74	32,000	9.38	1,308	2,207	3,090	3.5	9.4

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	8,300	8,300	-	-	10,798	3.16	16,600	4.87	19,800	5.80	1,042	1,495	2,560	11.1	14.4
	9	12	-	-	21	7,286	9,714	-	-	12,000	3.52	17,000	4.98	23,100	6.77	1,084	1,504	2,830	11.3	14.4
	12	12	-	-	24	9,000	9,000	-	-	12,300	3.60	18,000	5.28	25,500	7.47	1,234	1,565	3,090	11.5	14.4
	9	18	-	-	27	6,000	12,000	-	-	12,300	3.60	18,000	5.28	27,500	8.06	1,324	1,565	3,090	11.5	14.4
	12	18	-	-	30	7,200	10,800	-	-	12,300	3.60	18,000	5.28	27,500	8.06	1,324	1,565	3,090	11.5	14.4
3 Units	9	9	9	-	27	6,000	6,000	6,000	-	12,300	3.60	18,000	5.28	28,800	8.44	1,260	1,525	3,050	11.8	16.4
	9	9	9	-	30	5,400	5,400	7,200	-	12,300	3.60	18,000	5.28	28,800	8.44	1,260	1,525	3,050	11.8	16.4
	9	12	12	-	33	4,910	6,545	6,545	-	12,300	3.60	18,000	5.28	28,800	8.44	1,260	1,525	3,050	11.8	16.4

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	10,000	10,000	-	-	12,418	3.64	20,000	5.86	23,700	6.95	1,240	1,967	2,660	3.0	7.9
	9	12	-	-	21	9,771	13,029	-	-	13,800	4.04	22,800	6.68	27,700	8.12	1,300	2,227	3,010	3.0	7.9
	12	12	-	-	24	13,100	13,100	-	-	16,500	4.84	26,200	7.68	29,040	8.51	1,408	2,360	3,100	3.3	8.1
	9	18	-	-	27	8,733	17,467	-	-	16,500	4.84	26,200	7.68	31,500	9.23	1,468	2,360	3,100	3.3	8.1
	12	18	-	-	30	10,480	15,720	-	-	16,500	4.84	26,200	7.68	31,500	9.23	1,468	2,360	3,100	3.3	8.1
3 Units	9	9	9	-	27	8,733	8,733	8,733	-	16,500	4.84	26,200	7.68	32,000	9.38	1,368	2,226	3,090	3.4	8.5
	9	9	9	-	30	7,860	7,860	10,480	-	16,500	4.84	26,200	7.68	32,000	9.38	1,368	2,226	3,090	3.4	8.5
	9	12	12	-	33	7,145	9,527	9,527	-	16,500	4.84	26,200	7.68	32,000	9.38	1,368	2,226	3,090	3.4	8.5

Capacity data is based on the following conditions –

Cooling Nominal Test Conditions: Indoor: 80°F DB/67°F WB Outdoor: 5°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:

LMU247HV
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	8,400	8,400	-	-	10,798	3.16	16,800	4.93	19,800	5.80	1,022	1,422	2,560	11.9	16.7
	9	12	-	-	21	7,436	9,914	-	-	11,550	3.39	17,350	5.09	23,100	6.77	1,064	1,444	2,830	12.1	16.7
	12	12	-	-	24	9,300	9,300	-	-	11,850	3.47	18,600	5.46	25,500	7.47	1,214	1,517	3,090	12.3	16.7
	9	18	-	-	27	6,200	12,400	-	-	11,850	3.47	18,600	5.46	27,500	8.06	1,304	1,517	3,090	12.3	16.7
	12	18	-	-	30	7,440	11,160	-	-	11,850	3.47	18,600	5.46	27,500	8.06	1,304	1,517	3,090	12.3	16.7
3 Units	9	9	9	-	27	6,200	6,200	6,200	-	12,000	3.52	18,600	5.46	28,800	8.44	1,230	1,478	3,050	12.6	19.1
	9	9	9	-	30	5,580	5,580	7,440	-	12,000	3.52	18,600	5.46	28,800	8.44	1,230	1,478	3,050	12.6	19.1
	9	12	12	-	33	5,073	6,764	6,764	-	12,000	3.52	18,600	5.46	28,800	8.44	1,230	1,478	3,050	12.6	19.1

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	10,060	10,060	-	-	12,418	3.64	20,120	5.90	23,700	6.95	1,220	1,959	2,660	3.0	7.8
	9	12	-	-	21	9,814	13,086	-	-	13,283	3.89	22,900	6.71	27,700	8.12	1,280	2,201	3,010	3.1	7.8
	12	12	-	-	24	13,150	13,150	-	-	16,350	4.80	26,300	7.71	29,040	8.51	1,388	2,340	3,100	3.3	8.2
	9	18	-	-	27	8,777	17,534	-	-	16,350	4.80	26,300	7.71	31,500	9.23	1,448	2,340	3,100	3.3	8.2
	12	18	-	-	30	10,520	15,780	-	-	16,350	4.80	26,300	7.71	31,500	9.23	1,448	2,340	3,100	3.3	8.2
3 Units	9	9	9	-	27	8,767	8,767	8,767	-	16,350	4.80	26,300	7.71	32,000	9.38	1,338	2,217	3,090	3.5	9.0
	9	9	9	-	30	7,890	7,890	10,520	-	16,350	4.80	26,300	7.71	32,000	9.38	1,338	2,217	3,090	3.5	9.0
	9	12	12	-	33	7,173	9,564	9,564	-	16,350	4.80	26,300	7.71	32,000	9.38	1,338	2,217	3,090	3.5	9.0

Capacity data is based on the following conditions –

Cooling Nominal Test Conditions: Heating Nominal Test Conditions:

Indoor: 80°F DB/67°F WB

Indoor: 70°F DB/60°F WB

Outdoor: 5°F DB/75°F WB

Outdoor: 47°F DB/43°F WB

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