Job Name/Location: **Tag No:**

Date:

PO No.:

For: File Resubmit Approval Other _____

Architect: **GC:**

Engr: **Mech:**

Rep:
(Company) (Project Manager)

LMU541HV
Multi F MAX Outdoor Unit
4.5 Ton Heat Pump

LG Life's Good

Performance:

Cooling Capacity (Min.-Rated-Max., Btu/h)	10,800~50,500~63,200
Heating Capacity (Min.-Rated-Max., Btu/h)	12,420~58,000~64,000
Max. Heating Capacity at 17°F (Btu/h)	49,530
Max. Heating Capacity at 5°F (Btu/h)	41,140
Max. Heating Capacity at -4°F (Btu/h)	35,790
Cooling COP @95°F (Rated)	3.69
Heating COP @47°F (Rated)	3.35

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)[1]	208-230V, 60, 1
MOP (A)	40
MCA (A)	32.7
Cooling Rated Amps (A)	30.0
Heating Rated Amps (A)	30.0
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.)	9.26
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, 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)

Optional Accessories:

☐ PI-485 - PMNFP14A1
☐ AC Smart 5 - PACS5A000
☐ ACP 5 - PACP5A000
☐ MultiSITE™ Comm. Mgr. - PBACNBTR0A
☐ Power Distribution Indicator (PDI) Premium - PQNUD1S41
☐ Mobile LGMV - PLGMVW100
☐ Low Ambient Wind Baffle (Cooling Operation Down to -4°F) - ZLABGP04A x2
☐ Drain Pan Heater - PQSH1200

Required[5] Accessories:

☐ 2 Port BD Unit - PMBD3620
☐ 3 Port BD Unit - PMBD3630
☐ 4 Port BD Unit - PMBD3640
☐ 4 Port BD Unit - PMBD3641

Operating Range:

Cooling (°F DB)[15]	14 to 118
Heating (°F WB)	-4 to +64

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (Cool / Heat) ±1 dB(A)[6]	53 / 55
Net / Shipping Weight (lbs.)	192 / 216
Heat Exchanger Coating	Gold Fin™
Minimum No. of Indoor Units	2
Maximum No. of Indoor Units	8

Compressor:

Type	R1 Scroll
Quantity	1
Oil / Type	FVC68D

Fan:

Type	Propeller
Quantity	2
Motor / Drive	Brushless Digitally Controlled/Direct
Max. Airflow Rate (CFM)	1,942 x 2

Notes:

1. Acceptable operating voltage: 187V - 253V.
2. Piping lengths are equivalent.
3. 180.4 ft. of Main Piping + 49.2 ft. of Branch Piping.
4. 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 Standard 3745.
7. 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 / communication cable to be 4-conductor, stranded, shielded or un-shielded, 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.
10. See the Engineering Manual Capacity Tables for ODU sensible and latent capacities.
11. 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 115 ft. of refrigerant line, and 0 ft. level difference between ODU and IDUs. 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.
15. Installation of an optional Low Ambient Wind Baffle Kit will allow operation down to -4°F in cooling mode.

ENERGY STAR 162279 US Inverter

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Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

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

Job Name/Location: _____

LMU541HV
Multi F MAX Outdoor Unit
4.5 Ton Heat Pump

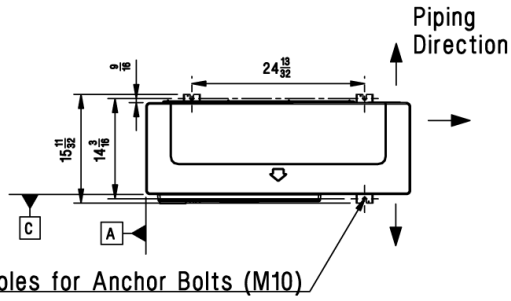
Tag No.: _____

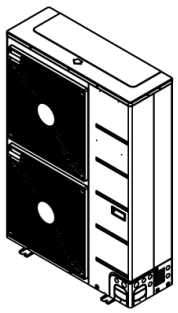
Date: _____

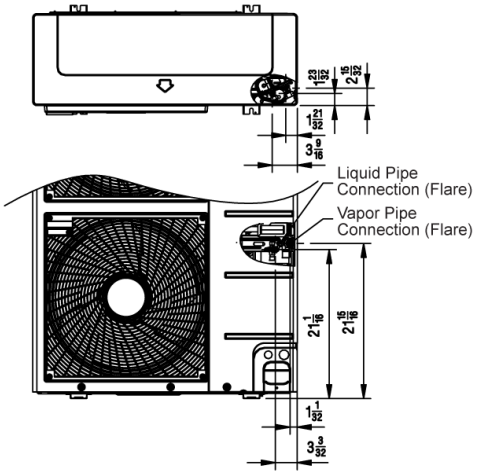
PO No.: _____

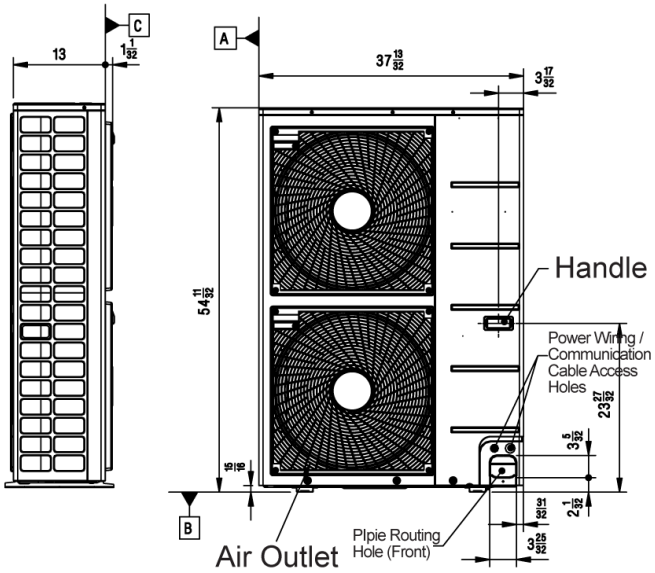
[Unit: inch]

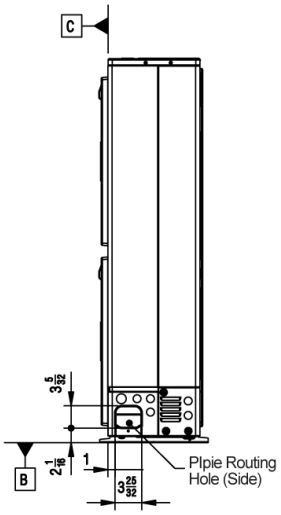
Chassis code : U60A

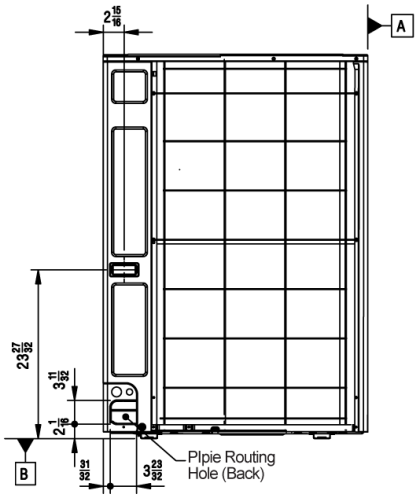


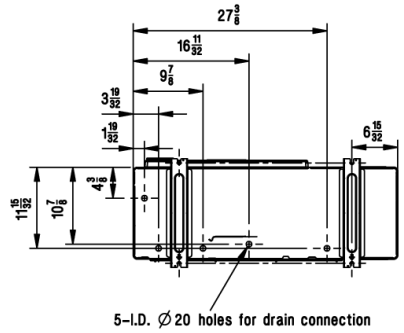












Notes:

1. Unit must be installed in compliance with the installation manual.
2. Unit must be grounded in accordance with the local or state regulations and applicable national codes.
3. All field-supplied electrical components and materials must comply with local, state, and national codes.
4. Electrical characteristics must be considered for electrical work and design. The capacity of power cable and circuit breaker for the outdoor unit must follow local, state, national, and manufacturer requirements.

Symbols

- Piping Direction
- A Datum line

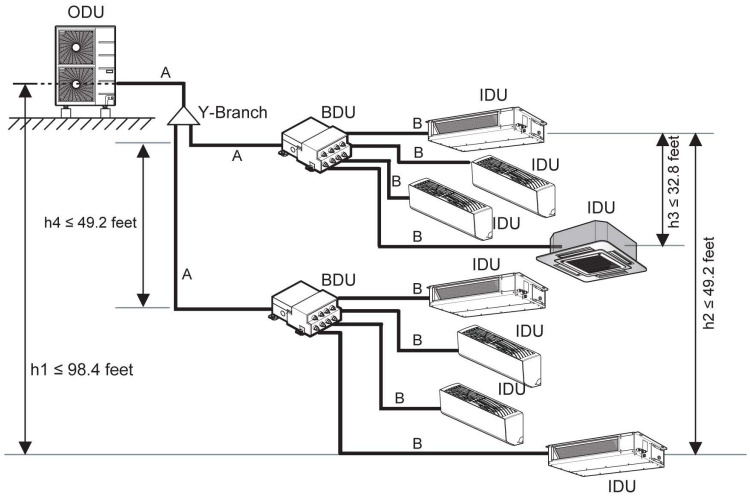
Job Name/Location: _____

LMU541HV
Multi F MAX Outdoor Unit
4.5 Ton Heat Pump

Tag No.: _____

Date: _____

PO No.: _____

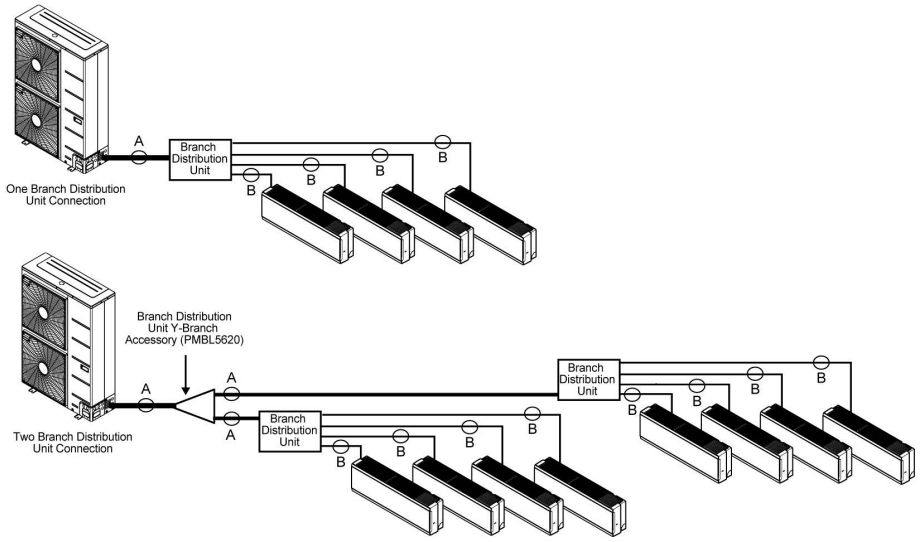


Example: outdoor unit with eight (8) indoor units and two (2) branch distribution units connected.
ODU: Outdoor Unit.
IDU: Indoor Unit.
BDU: Branch Distribution Unit(s).
A: Main Pipe.
B: Branch Pipe (Branch Distribution Unit[s] to Indoor Unit[s]).

Multi F MAX Outdoor Unit Refrigerant Piping System Limitations.

Pipe Length (ELF = Equivalent Length of pipe in Feet)	**Total piping length (ΣA + ΣB)**		≤475.7 feet
	Main pipe (Outdoor Unit to Branch Distribution Units: A)	**Minimum for Each (A) Piping Segment**	16.4 feet
		Maximum (ΣA)	≤180.4 feet
	Total branch piping length (ΣB)		≤295.3 feet
	Branch pipe (Branch Distribution Units to Indoor Units: B)	**Minimum**	16.4 feet
		Maximum	≤49.2 feet
Elevation Differential (All Elevation Limitations are Measured in Actual Feet)	**If outdoor unit is above or below indoor unit (h1)**		≤98.4 feet
	Between the farthest two indoor units (h2)		≤49.2 feet
	Between branch distribution unit and farthest connected indoor unit(s) (h3)		≤32.8 feet
	Between branch distribution units (h4)		≤49.2 feet

Installing the Unit



Multi F MAX Piping Sizes.

Piping	Main Pipe A (inch)	Branch Pipe B
Liquid	Ø3/8	Depends on the size of the indoor unit piping.
Vapor	Ø3/4	

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

Date:

PO No.:

For: ☐ File ☐ Resubmit ☐ Approval ☐ Other

Architect: GC:

Engr: Mech:

Rep:

(Company) (Project Manager)

PMBD3640

4-Port Branch Distribution Unit (BD Unit)

Performance:

Max Nominal Port Capacity Btu/h (each port)	24,000
Max Nominal Unit Capacity Btu/h (sum of ports)	73,000
Power Input (W)	32

Electrical:

Power Supply (V¹/Hz/Ø)	208-230/60/1
Rated Amps (A)	0.16

Piping:

Piping Connection to Outdoor Unit:

Liquid Line (in, OD)	3/8
Vapor Line (in, OD)	3/4

Piping Connection to Indoor Unit:

Liquid Line (in, OD)	1/4 (Qty 4)
Vapor Line (in, OD)	3/8 (Qty 4)

Standard Features:

- Distributes refrigerant to indoor units
- Internal components are insulated
- Flare joints provided for easy installation
- Compact design

Operating Range:

Operating Range (°F DB)	0-150

Unit Data:

Net Weight (lbs)	16
Shipping Weight (lbs)	18

Notes:

1.Acceptable operating voltage: 187V-253V.
2.All power/communication cable to be minimum 16 AWG from the outdoor unit to the BD unit and 18 AWG from the BD unit to the indoor unit.
3.All power/communication cable to be 4-conductor, stranded, shielded and must comply with applicable local and national code.
4.Piping lengths:
- Maximum height difference between BD unit and indoor units - 32.8 ft
- Maximum height difference between BD unit and BD unit - 49.2 ft.
- Maximum piping length between BD unit and indoor units - 49.2 ft

5.The BD unit should be installed inside of a building.
6.Must follow installation instructions in the applicable LG installation manual.
7.Power wiring cable size must comply with the applicable local and national code.

Job Name/Location:

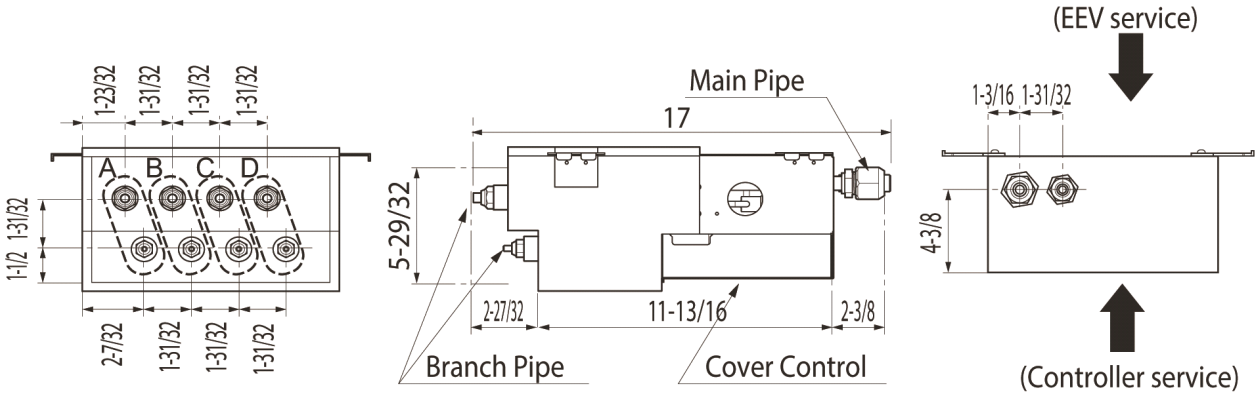
PMBD3640

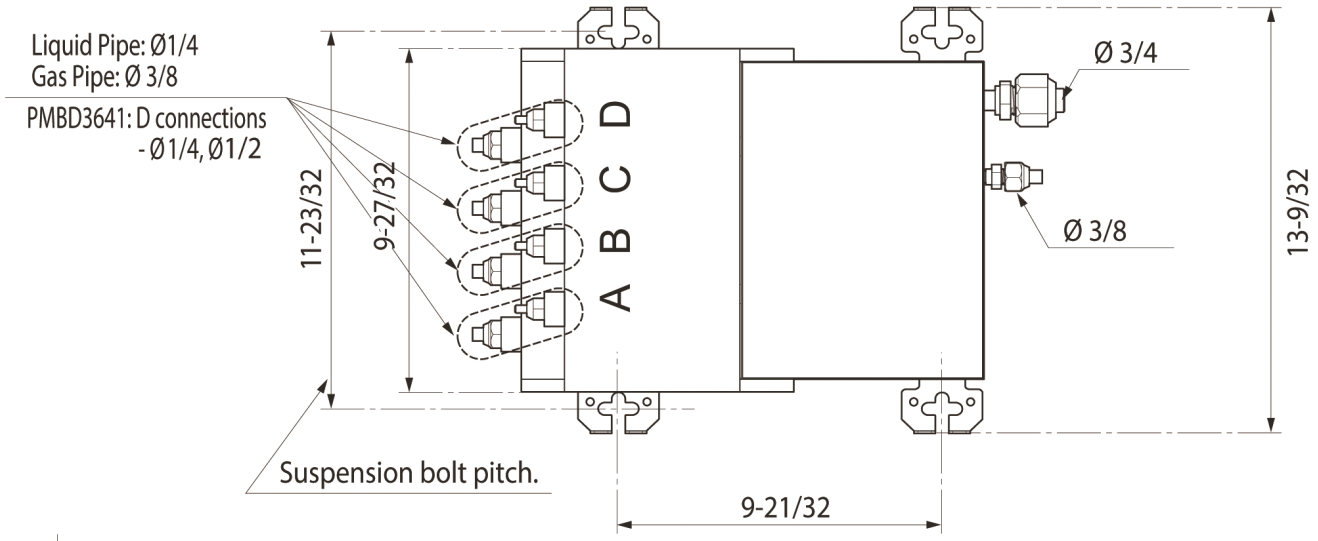
4-Port Branch Distribution Unit (BD Unit)

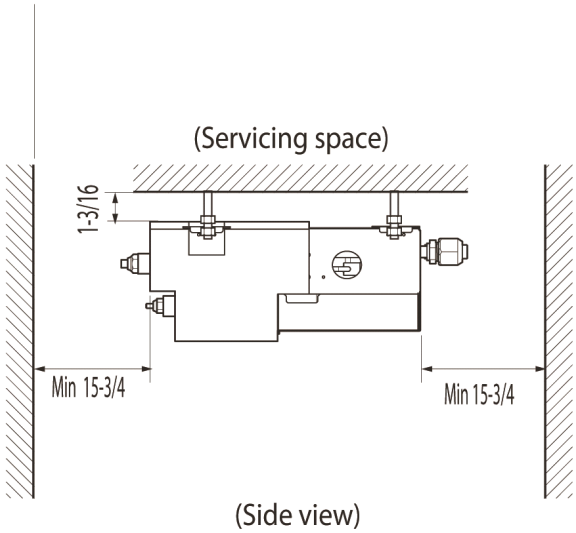
Tag #:

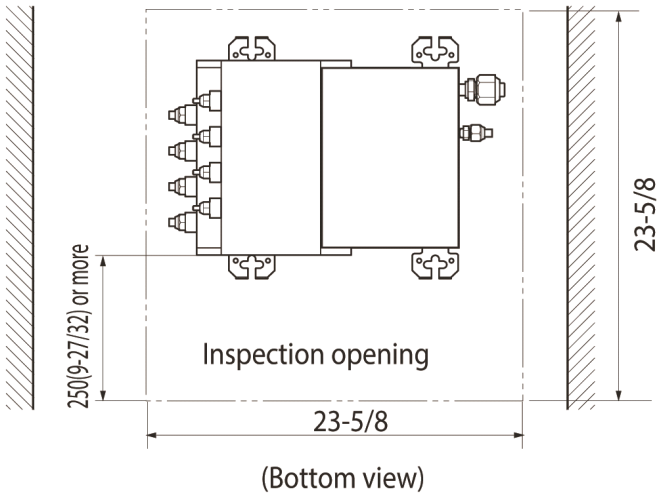
Date:

PO No.:









Unit : inch

Notes

1. For PMBD3620 unit, ports A and B are available.
2. For PMBD3630 unit, ports A, B and C are available.
3. For PMBD3640 and PMBD3641 units, ports A, B, C and D are available.

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

Date:

For: ☐ File ☐ Resubmit ☐ Approval ☐ Other

PO No.:

Architect: GC:

Engr: Mech:

Rep:

(Company) (Project Manager)

LMAN127HVP

Multi F Art Cool™ Gallery
11,200 Btu/h Indoor Unit

LG Life's Good

Performance:

Nominal Cooling Capacity (Btu/h)	11,200
Nominal Heating Capacity (Btu/h)	13,300

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
Rated Amps (A)	0.20

Piping:

Liquid Line (in, OD)	1/4
Vapor Line (in, OD)	3/8
Drain OD, ID (in)	13/16, 5/8
Temperature Sensor	Thermistor

Features:

- 24-Hour on/off timer
- Auto operation
- Auto restart
- Chaos Swing
- Inverter (variable speed fan)
- Jet Cool/Jet Heat
- Self-cleaning indoor coil
- Condensate sensor connection
- Group control

Included Accessories:

- Wireless Handheld Remote Controller - AKB73635607

Optional Accessories:

- ☐ LG Programmable Thermostat - PREMTB10U
- ☐ Simple Controller with Mode (Black) - PQRCVCL0Q
- ☐ Simple Controller with Mode (White) - PQRCVCL0QW
- ☐ Simple Controller without Mode (Black) - PQRCHCA0Q
- ☐ Simple Controller without Mode (White) - PQRCHCA0QW
- ☐ AC Smart Premium - PQCSW421E0A
- ☐ ACP Premium - PQCPC22A1
- ☐ ACP Standard - PQCPC22N1
- ☐ LonWorks Gateway - PQNFB16A1
- ☐ BACnet Gateway - PQNFB17B0
- ☐ AC Ez - PQCSZ250S0
- ☐ Dry Contact Unit (1 contact, 24 VAC external power) - PQDSB1
- ☐ Dry Contact Unit (2 input, power from indoor unit) - PQDSBC
- ☐ Dry Contact for third party thermostat - PQDSBNGCM1

Operating Range:

Cooling (°F WB)	57-77
Heating (°F DB)	59-81

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure[2] H/M/L (±3 dB(A))	42/38/34
Primary Filter	Washable Pre-filter
Net Unit Weight (lbs)	32
Shipping Weight (lbs)	37

Fan:

Type	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Airflow Rate H/M/L (CFM)	314/258/198

Notes:

1.Acceptable operating voltage: 187V - 253V.
2.Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996.
3.See Engineering Manual for sensible and latent capacities.
4.All power/communication cable to be minimum 18 AWG, 4-conductor, stranded, shielded and must comply with applicable local and national code.
5.Power wiring cable size must comply with the applicable local and national code.
6.This unit comes with a dry helium charge.
7.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%
8.Must follow installation instructions in the applicable LG installation manual.

Inverter

Intertek

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Small AC
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

Job Name/Location:

LMAN127HVP

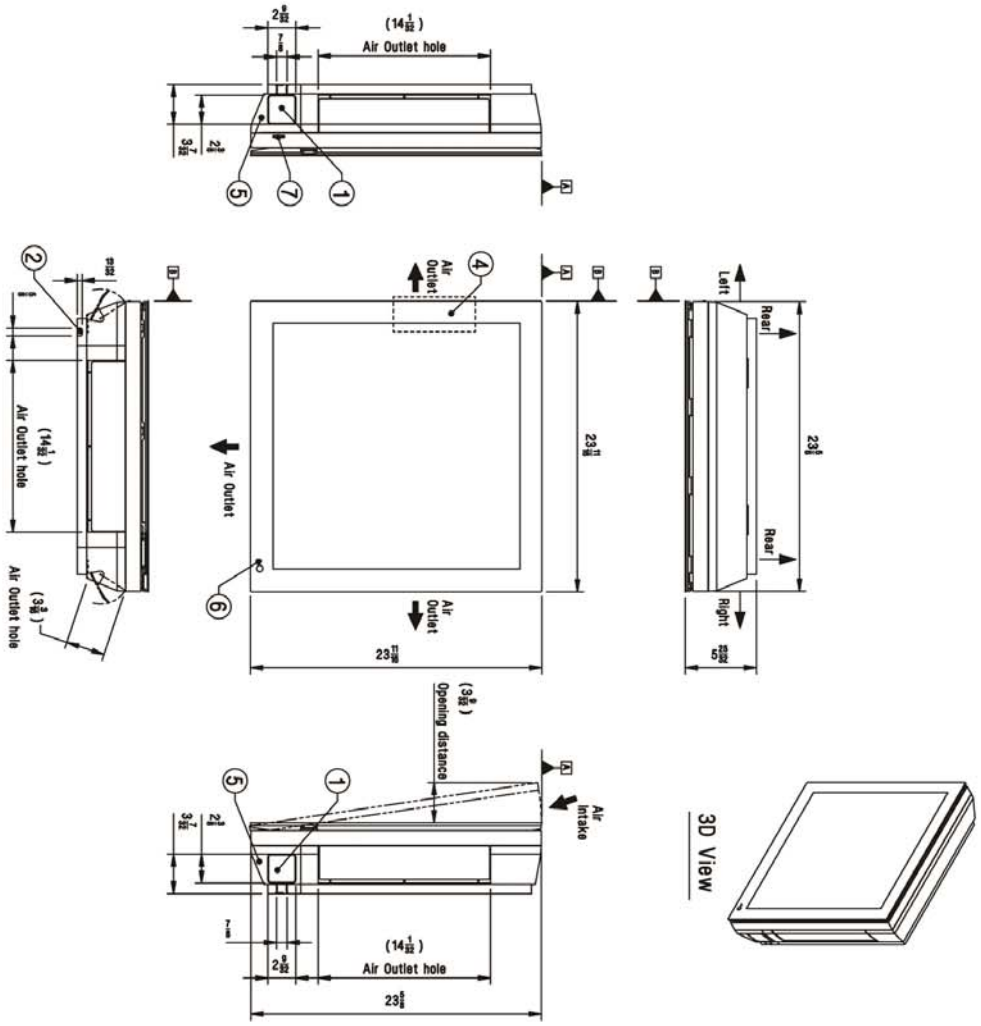
Multi F Art Cool™ Gallery

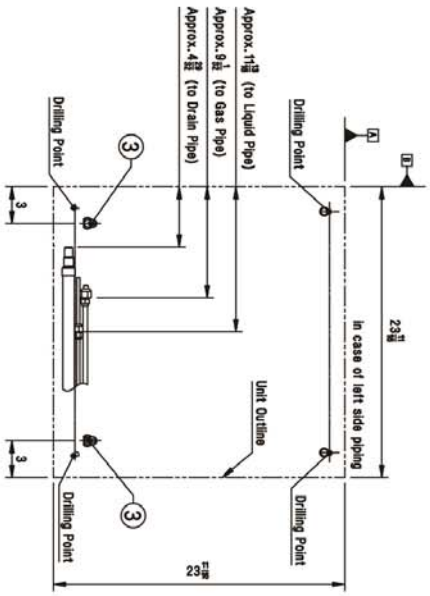
11,200 Btu/h Indoor Unit

Tag #:

Date:

PO No.:





No.	Part Name	Description
1	Refrigerant/drain pipe and cable routing hole	Knock-out type
2	Cable routing hole	-
3	Drain hose connection	-
4	Terminal block for power supply and communication	Inside of front panel
5	Corner cover	-
6	Remote controller signal reciever	For wireless Type
7	Forced ON/OFF button	-