

SUBMITTAL DATA – **Outdoor Unit**
MMLD020S6M-1P
MULTI ZONE MINI-SPLIT

Job:

Location:

Schedule No.:

System Designation:

Engineer:

Architect:

Date:

For: ☐ Reference ☐ Approval ☐ Review ☐ Construction

GENERAL INFORMATION

- The system shall provide high heating capacity at -13°F (-25°C) outside temperature and 100% rated heating capacity at 5°F (-15°C) outside temperature.
- The outdoor unit shall have a base pan heater as standard for optimal defrost cycle water drainage
- Auto-restart after power loss
- Available maximum current setting option to reduce operating current.
- System energy consumption can be viewed using the Samsung SmartThings mobile app (not revenue grade, for reference only).
- Soft-start to reduce current demand during compressor start
- The outdoor unit shall supply power individually to the indoor units via 14 AWG X 3 power wire

Construction

- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

Heat Exchanger

- The heat exchanger shall be mechanically bonded fin to copper tube

Refrigerant System

- The system shall utilize low-GWP R-32 refrigerant
- Refrigerant flow shall be controlled by electronic expansion valves at the outdoor unit.
- The system shall include an R32 alarm output plug on indoor units with refrigerant leak detectors and outdoor unit for notification of R32 leak detection when refrigerant leak detectors are installed and configured (VSTAT10P-1 accessories are required).

Controls

- Control signal shall be a DDC type signal
- Interconnect control wire between outdoor and indoor units shall be 16AWG X 2
- The system shall integrate with the Lennox Powered by Samsung Central Controls solution



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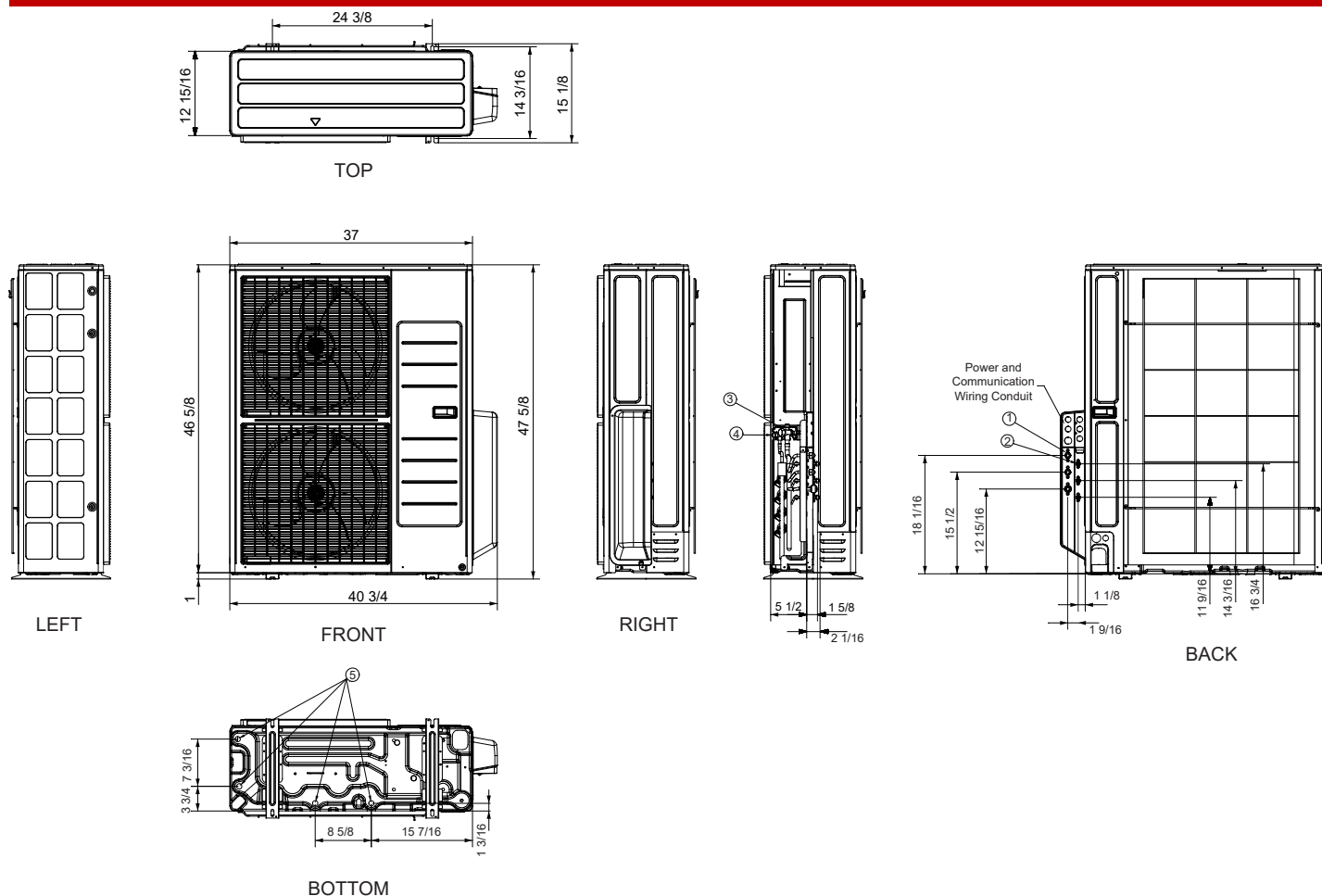
SPECIFICATIONS

Performance	Rated Capacity*	Cooling (Btu/h)	21,000
		Heating (Btu/h)	22,000
	Heating Capacity at 5°F OA, 70°F Indoor DB (Btu/h, Ducted)		22,000
	SEER2 (Ducted / Mixed / Non-ducted)		20.5 / 21.75 / 23
	EER2 (Ducted / Mixed / Non-ducted)		13.45 / 14.2 / 15
	HSPF2 (Ducted / Mixed / Non-ducted)		9.5 / 10 / 10.5
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 253
	Nominal Current**	Cooling (A)	6.2
		Heating (A)	6.2
	Max. Breaker	Amps	40.0
	Min. Circuit Ampacity	Amps	35.9
Dimensions	W X H X D	In.	37 X 47 5/8 X 13
	Weight	lbs.	191.80
Sound Pressure Level	Cooling / Heating (high)		50 / 51
Operating Temperatures	Outdoor	Cooling	14 - 115°F (-10 - 46°C)
		Heating	-13 - 75°F (-25 - 24°C)
Pipe Connections	High side		1/4" X 3
	Low side (suction)		3/8" X 3
	Max. Individual Line Set Length	ft.	82
	Max. Line Set Length (total)	ft.	230
	Max. Vertical Separation	Outdoor to indoor (ft.)	49
		Highest to lowest indoor (ft.)	25
	Included Pipe Adapters		1 - 3/8" X 1/2"
Refrigerant	Type		R-32
	Control Method		Electronic Expansion Valve (3)
	Factory Charge	oz.	109.3
	Charged for	ft.	164
Compressor	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	22.8
Condenser Fan	Type		BLDC With Axial Type Fan (2)
	MOC / Watts / CFM (max.)		1.2A X 2 / 125W X 2 / 3,320
Corrosion Prevention	ISO-9227 - The condenser heat exchanger showed no unusual rust or corrosion development to 240 hours.		
Safety	Certifications	UL 60335-2-40	
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing	

*Standard capacity is based on non-ducted rated capacity. Minimum and maximum capacity will vary based on connected indoor unit type, capacity, and quantity along with indoor and outdoor temperatures. Refer to system capacity tables for full capacity details.

**Rated current based on highest combination ratio of non-ducted indoor units.

OUTDOOR DIMENSIONAL DRAWINGS - IN.



No.	Name	Description
1	Refrigerant suction pipes (ø)	3/8" X 3
2	Refrigerant liquid pipes (ø)	1/4" X 3
3	Service valve (suction)	
4	Service valve (liquid)	
5	Drain holes	Connection with provided drain fitting

NOTE – Due to Lennox' ongoing commitment to quality, Specifications, Ratings, and Dimensions are subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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COMPATABILITY

Outdoor Unit Indoor Unit		Model	Capacity (k Btu/h)				
				MMLD020S6M-1P	MMLD024S6M-1P	MMLD030S6M-1P	MMLD036S6M-1P
Model				20	24	30	36
Wall Mounted Premium	 MWMD***M6-1P MWMD***S6-1P	7		●	●	●	●
		9		●	●	●	●
		12		●	●	●	●
		15		●	●	●	●
		18			●	●	●
		24				●	●
Wall Mounted Standard	 MWH***M6-1P MWH***S6-1P	7		●	●	●	●
		9		●	●	●	●
		12		●	●	●	●
		15		●	●	●	●
		18			●	●	●
		24				●	●
Wall Mounted Standard + RDS	 MWZD***M6-1P	7		●	●	●	●
		9		●	●	●	●
		12		●	●	●	●
		15		●	●	●	●
		18			●	●	●
		24				●	●
1-Way Cassette		9		●	●	●	●
		12		●	●	●	●
4-Way Cassette (2x2)		9		●	●	●	●
		12		●	●	●	●
		18			●	●	●
Medium Static Concealed Ducted		9		●	●	●	●
		12		●	●	●	●
		18			●	●	●
High Static Concealed Ducted		9		●	●	●	●
		12		●	●	●	●
		15		●	●	●	●
		18			●	●	●
Floor Mount Console		9		●	●	●	●
		12		●	●	●	●
		15		●	●	●	●
		18			●	●	●
Multi Position AHU		12		●	●	●	●
		18			●	●	●
		24				●	●

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