

SUBMITTAL DATA – 1-Way Cassette

MMLD018S6S-1P – M1WD018S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

Job: _____

Location: _____

Schedule No.: _____

System Designation: _____

Engineer: _____

Architect: _____

Date: _____

For: ☐ Reference ☐ Approval ☐ Review ☐ Construction

GENERAL INFORMATION

- The system shall provide high heating capacity at -4°F (-20°C) with heating operation down to -13°F (-25°C).
- The outdoor unit shall have a base pan heater as standard for optimal defrost cycle water drainage.
- The indoor unit shall feature WindFree™* mode. When activated in cooling mode, the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit, preventing cold air drafts on occupants.
- The system shall feature comfort humidity control. Utilizing an integral humidity sensor, the system optimizes the indoor unit coil temperature according to the dew point, maximizing energy savings while still providing space dehumidification and occupant comfort.
- The indoor unit shall have an integral condensate pump with maximum 29" lift from bottom of the unit with check valve and float switch to disable unit in the event of condensate overflow.
- The indoor unit fascia panel shall have a built-in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app.
- Auto-restart after power loss
- Soft-start compressor minimizing inrush current
- The outdoor unit shall provide 208/230V power to the indoor unit via 14 AWG X 3 interconnect power cable.

Construction

- Outdoor unit: Galvanized steel with a baked-on powder-coated finish for durability.
- Indoor unit: Insulated, HIPS chassis and fascia panel certified to UL94 V0.
- All heat exchangers shall be mechanically boded aluminum fin to copper tube.

Refrigerant System

- The system shall utilize low-GWP R-32 refrigerant
- Refrigerant flow shall be controlled by an electronic expansion valve at the outdoor unit.
- The system shall include an R32 alarm output plug on the indoor unit and outdoor unit for notification of R32 leak detection when the indoor unit refrigerant leak detector detects a refrigerant leak (VSTAT10P-1 accessory is required).

Indoor Fan

- Three fan speed settings and auto settings
- Washable filter as standard
- Fascia panel shall have LED display, infrared receiver, and a motorized louver
- The WindFree™* function will close the supply air outlet louver while in cooling mode to gently disperse cool air into the space without blowing directly onto occupants.
- The WindFree™* feature is optional and can be enabled using central or local control options.

Controls

- Control wiring shall be 2 X 16 AWG.
- The unit shall be operated via a wireless or wired remote control with DDC-type signal (purchased separately)
- Dual set temperature support when connected to supported controllers.
- No additional interface modules/adapters are required when connecting to Samsung central control options.
- Wired or wireless controllers must be purchased separately.

External Heat Control

- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat (VSTAT10P-1 accessory required).
- External heat control configuration settings include outside ambient external heat lockout, outside ambient compressor lockout, and time delay options (VSTAT10P-1 accessory required).

- Emergency heat functionality allows the system to continue controlling the external heat source even when system errors prevent the heat pump from operating (VSTAT10P-1 accessory required).
- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat
- Emergency heat functionality allows the system to continue controlling the external heat source even when system errors prevent the heat pump from operating

Convenience

- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- Night-time Quiet Mode: reduction of operational sound during evening hours (automatic or manual activation).
- Emergency Temperature Output (ETO) function: when indoor unit is in error status or when room temperature exceeds a configurable temperature level, the system outputs a signal to an external source (e.g., backup system, building management system, alert device like status light, warning lamp, or buzzer).
- The system can be configured as heating/cooling, cooling only, or heating only via outdoor unit option setting.
- Maximum Current Control configurable from 50% - 100% via outdoor unit, wired controller, or central controls.



Outdoor Unit: MMLD018S6S-1P Indoor Unit: M1WD018S6-1P

PRODUCT WARRANTY

Compressor – Twelve year limited warranty*

All other covered components - Twelve year limited warranty*

*Product registration required

ACCESSORIES

VSTAT02P-1 Touch Screen Wired Controller	37P79
VSTAT04P-1 Programmable Wired Controller	37Y74
VSTAT09P-1 24V Thermostat Adapter	37Y96
VSTAT01P-1 Wireless Remote Controller	37Y73
VCTRL11P-1 External Room Temp. Sensor	37Y77
VSTAT10P-1 External Contact Control	37Y69
1-Way CST LG Panel, WiFi R-32	37P71

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SPECIFICATIONS

Performance	Nominal Capacity	Cooling / Heating (Btu/h)	17,500 / 20,000
	Capacity Range	Cooling (Btu/h)	6,800 - 19,000
		Heating (Btu/h)	3,600 - 28,000
	AHRI 210-240 2023	SEER2	20.00
		EER2	12.00
		HSPF2 (region IV)	9.50
		5°F COP	1.80
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 253
	Operating Current (min. / standard / max.)	Cooling (A)	2.4 / 6.7 / 11.3
		Heating (A)	2.0 / 8.4 / 20.0
	Max. Breaker	Amps	25.0
	Min. Circuit Ampacity	Amps	22.7
Dimensions	W X H X D (in.)	Indoor Unit	47 3/16 X 5 3/8 X 17 11/16
		Outdoor Unit	34 5/8 X 31 3/8 X 12 3/16
	Weight (lbs.)	Indoor Unit	27.60
		Outdoor Unit	116.84
Sound Pressure Level	Indoor Unit dB(A)	L / M / H / Turbo	31 / 37 / 40 / 43
	Outdoor Unit dB(A)	Cooling / Heating (high)	58 / 58
Operating Temperatures	Outdoor	Cooling	23 - 122°F (-5 - 50°C)
			-4 - 122°F (-20 - 50°C) W/Baffle
	Indoor	Heating	-13 - 75°F (-25 - 24°C)
		Cooling	64 ~ 90°F (16 ~ 32°C)
		Heating	T ≤ 86°F (30°C)
Pipe Connections	Indoor & Outdoor	High side (In.)	1/4
		Low side (In.)	1/2
	Maximum (ft.)		164
	Maximum Vertical Separation (ft.)		98
	Condensate Connection		1 1/4 in. OD, 1 in. ID
Refrigerant	Type		R-32
	A2L Leak Detection		Not Included
	Factory Charge	oz.	60.0
	Charged for		24.6 ft.
Compressor	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	14.1
Evaporator Fan	Type		BLDC motor with cross-flow fan
	Output	Watts	65
Airflow	Air Volume (L/M/H)	Cooling (CFM)	400 / 470 / 560
		Heating (CFM)	430 / 500 / 590
Condenser Fan	Type		BLDC With Axial Type Fan (1)
	MOC / Watts / CFM (max.)		1.2A X 1 / 125W X 1 / 2,154
Fascia Panel	L X W X H	In.	55 1/2 X 4.75 X 1 3/8
	Weight	lbs.	11.0

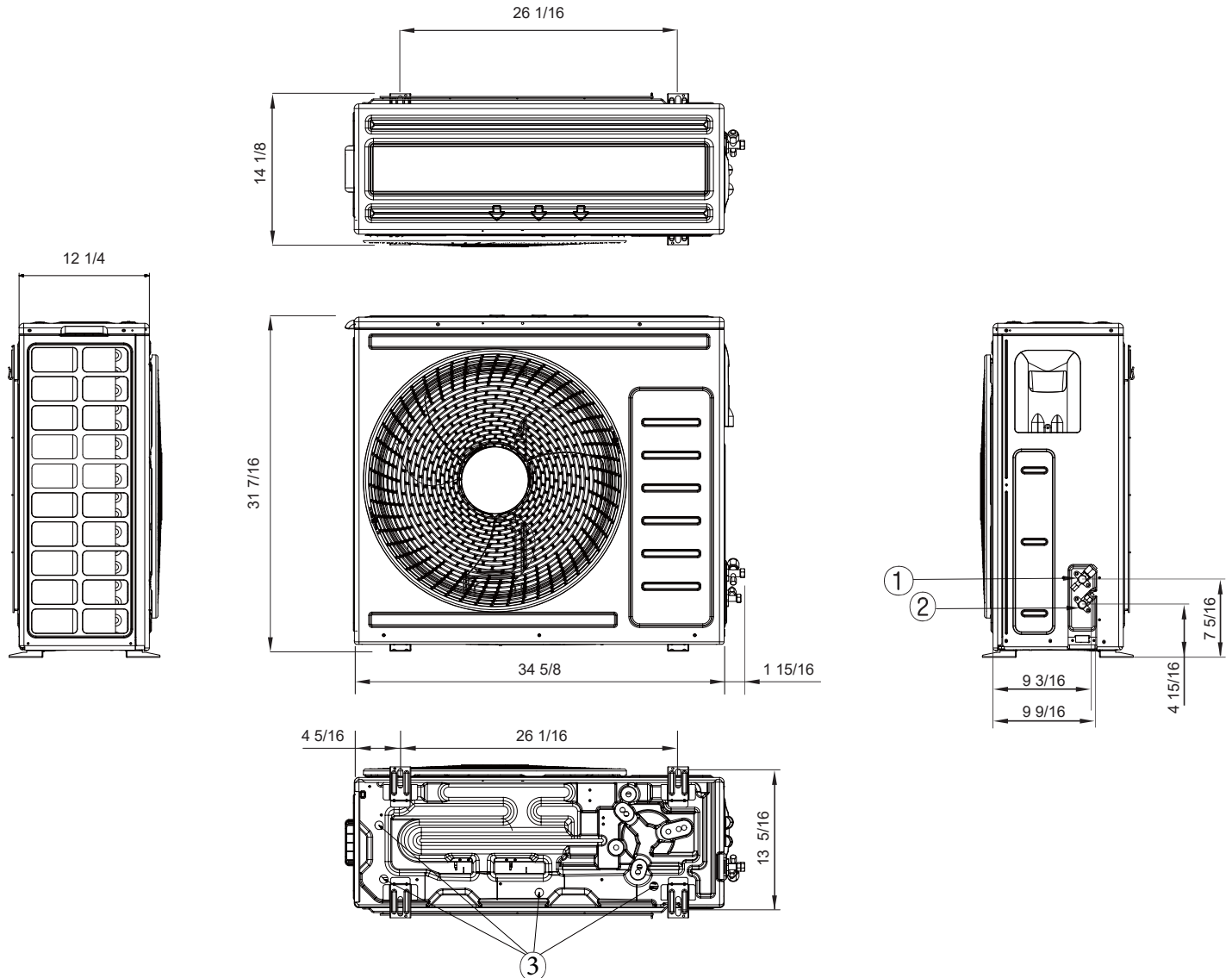
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OUTDOOR DIMENSIONAL DRAWINGS - IN.



No.	Description
1	Gas pipe connection
2	Liquid pipe connection
3	Drain pipe connection

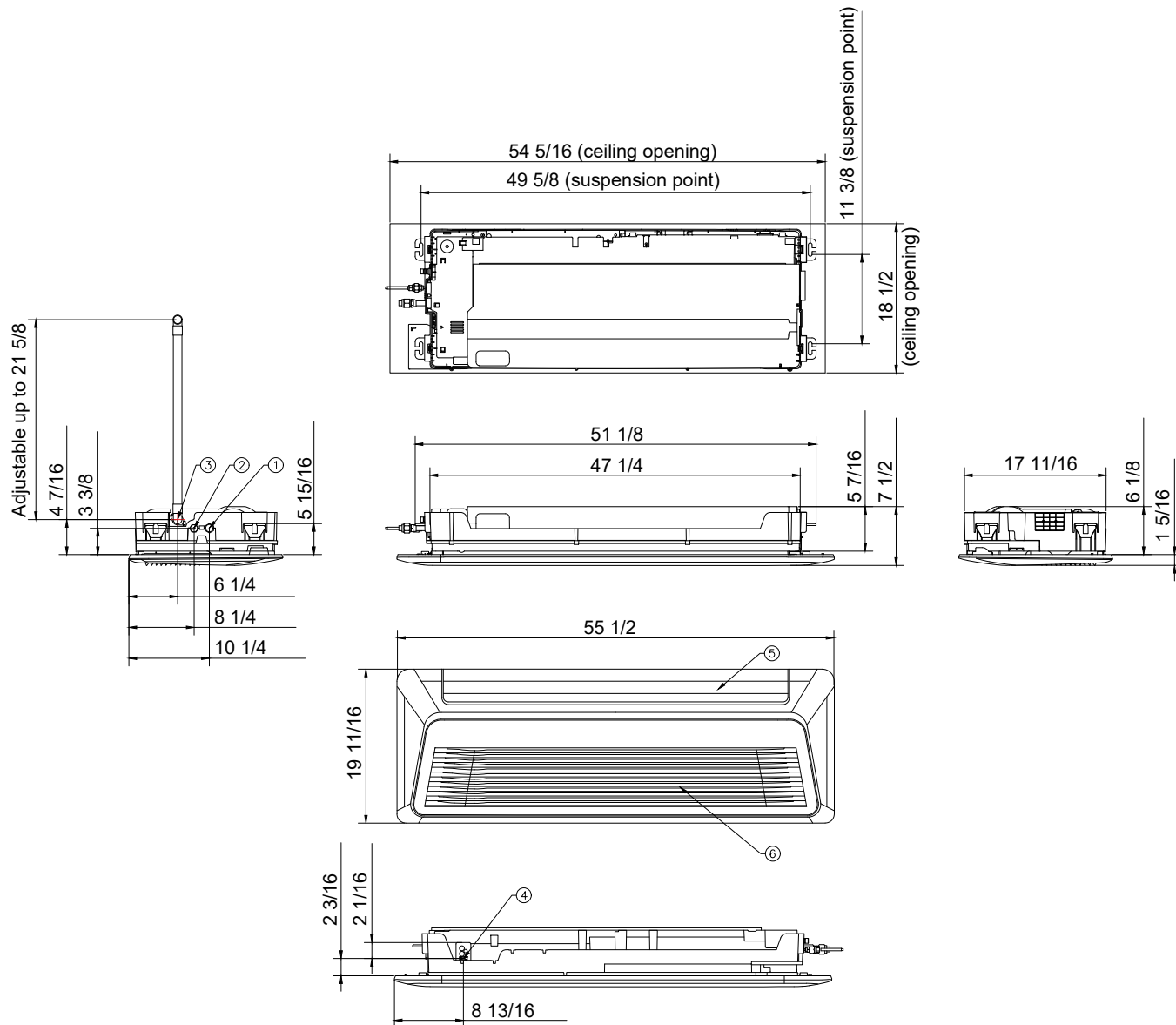
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INDOOR DIMENSIONAL DRAWINGS - IN.



No.	Description
1	Liquid pipe connection
2	Gas pipe connection
3	Drain hose connection
4	Opening for power and communication wire conduit
5	Air outlet louver
6	Air inlet grille

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