

Job Name \_\_\_\_\_  
Purchaser \_\_\_\_\_  
Submitted to \_\_\_\_\_  
Unit Designation \_\_\_\_\_

Location \_\_\_\_\_  
Engineer \_\_\_\_\_  
Reference \_\_\_\_\_ Approval \_\_\_\_\_ Construction \_\_\_\_\_  
Schedule # \_\_\_\_\_

## System Specifications

Performance	US Ton (nominal)		4.42
	Capacity (Btu/h)	Nominal Cooling <sup>1</sup>	53,000
		Nominal Heating <sup>1</sup>	61,000
	System Modulation down to (Btu/h)		7,500
	SEER	Ducted / Non-Ducted	17.5 / 20.0
	EER	Ducted / Non-Ducted	9.45 / 11.5
Power	HSPF	Ducted / Non-Ducted	10.0 / 11.0
	Voltage	(ø/V/Hz)	1 / 208-230 / 60
	Maximum Circuit Breaker (MCCB/ELB/ELCB)		50
Indoor Units	Minimum Circuit Ampacity (MCA)		34
	Total Capacity (%)		50 - 130% Of Outdoor Capacity
Compressor	Maximum Indoor Unit Quantity		10
	Type	Twin BLDC Rotary X1	
Refrigerant	RLA	A	26.0
	Type	R410A	
Pipe Connections	Factory Charge	lbs.	7.3
	Liquid X Suction	3/8 X 3/4	
Installation Limitation <sup>2</sup>	Max. Distance - ODU to IDU (feet)		492 (574 equivalent)
	Vertical Separation (feet)	ODU to IDU <sup>3</sup>	164 / 131
		Highest/Lowest IDU	49
	Total Refrigerant Pipe (feet)		984
Condenser Fan	Fan	Type	Propeller X 2
		Output (CFM)	3,885
	Motor	Type	BLDC
		Output (W) / FLA (A)	125 X 2 / 0.6
Dimensions	W X H X D	Inches	37 X 47 5/8 X 13
	Weight	lbs.	227
Sound Level	Max. dB (A)	Cooling / Heating	53 / 55
Operating Temperature Range	Cooling <sup>4</sup>	°F	0°F ~ 118°F (-18°C ~ 48°C)
	Heating	°F	-13°F ~ 75°F (-25°C ~ 24°C)
Accessories	Wind Baffles	Front	WBF-1M2
		Back	WBB-2M-B
	Wi-Fi Adapter		MIM-H04UN
	Mode Selector Switch For HP Systems		MCM-C200U
	Base Pan Heater Kit		MHC-015EE
Safety Certifications	External contact control interface module (operation and error output, night silent mode manual activation)		MIM-B14
			ETL (UL 1995)
Protection Devices	Intelligent logic to ensure proper operation within unit design limitations and operational parameters		
	High pressure sensor, low pressure sensor, over-voltage protection, compressor over-current protection, current transformer, fan motor voltage protection, fan motor thermal protection, high voltage fuses		



## Compatibility

Only compatible with Samsung DVM S indoor units (AM\*\*\*\*N\*\*\*H\*\*) and MCM-D211UN Universal Communication Kit.

## Construction

The unit shall be galvanized steel with a baked on powder coated finish

Refrigerant pipe connections inside unit chassis with penetrations available on front, back, right, and bottom sides for versatile installation

## Heat Exchanger

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

Salt spray test method: ASTM-B117-18 - the heat exchanger showed no unusual rust or corrosion development to 2,280 hours.

## Controls

The unit shall be operated via NASA Protocol with controls provided by Samsung

Control wiring shall be 16 AWG X 2 shielded wire.

## Refrigerant System

The compressors shall be Samsung hermetically sealed, inverter driven, twin BLDC Rotary type.

Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.

A flat plate subcooler device will improve capacity at extreme system refrigerant pipe lengths and reduce refrigerant noise.

## Other Features

Optional night quiet modes to reduce outdoor unit sound

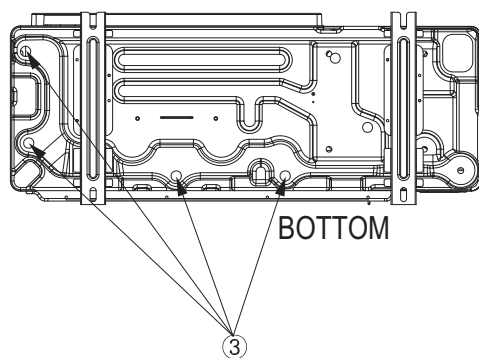
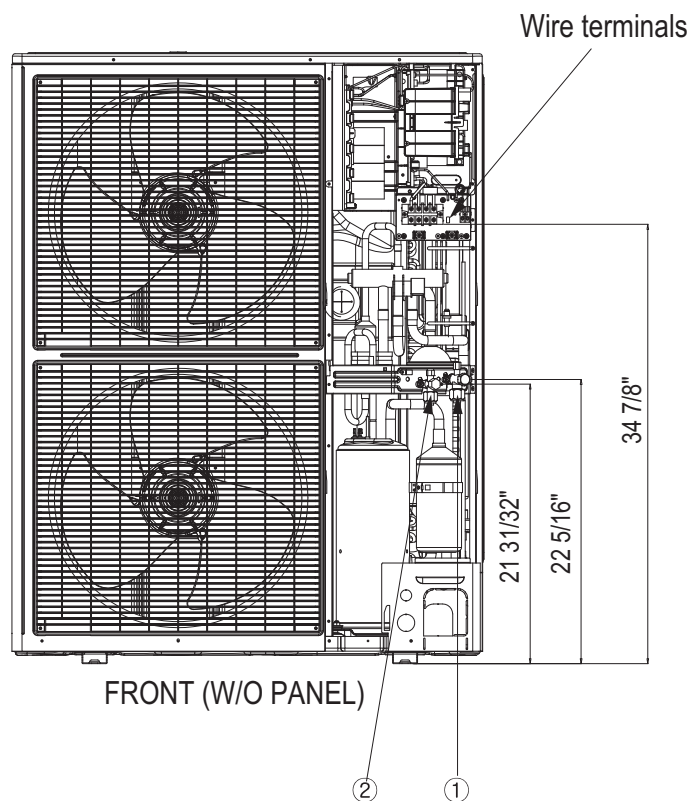
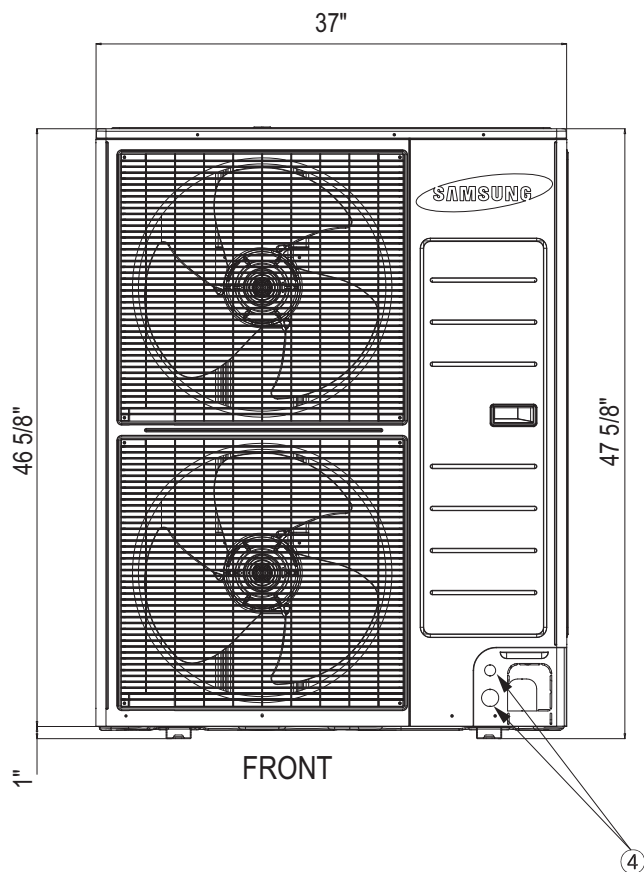
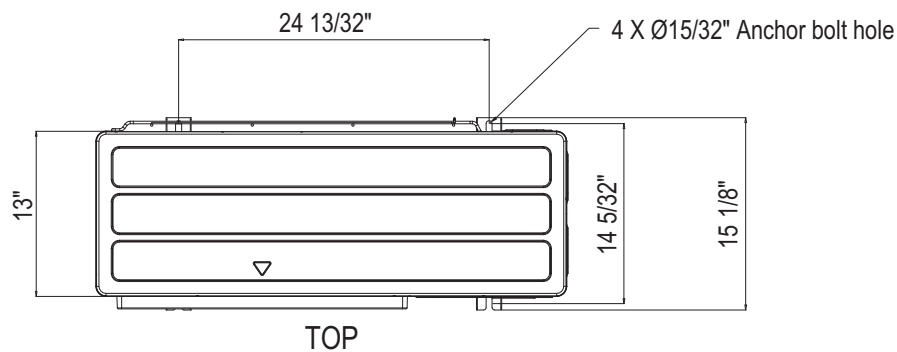
Optional snow blowing logic to prevent snow drifting on idle outdoor units

<sup>1</sup> Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240.

<sup>2</sup> Other pipe restrictions and requirements exist. Please consult installation manuals or technical data book for full details.

<sup>3</sup> Vertical separation: 131' when outdoor unit is lower than the indoor units, 164' when the outdoor unit is higher than the indoor units.

<sup>4</sup> When cooling in outside temperatures between 0°F ~ 23°F, wind baffles are required. When outside temperature is between 0°F ~ 23°F, 50% operating capacity should be maintained to ensure reliability while in cooling mode.



- ① Gas refrigerant pipe opening
- ② Liquid refrigerant pipe opening
- ③ Condensate drain holes
- ④ Communication conduit opening (2 X Ø1 3/8")