Слис			SUBMITTAL AM	M240JXVAFH/AA Page 1 of 4					
SAMS	UNG		Sa	amsung DVM S Series, Heat Pump Condensing Unit					
Job Name	)		L	ocation					
Purchaser				Engineer					
				Reference Approval Construction					
Submitted to									
Unit Desig	nation		5	Schedule #					
System Specifications									
Sustam	Modules	Module 1	AM072FXVAFH/AA						
System	Connected	Module 2	AM168HXVAFH/AA						
	US Ton (nomi	nal)	20	They They					
Performance	Capacity (Btu/h)	Nominal / Rated Cooling <sup>1</sup>	240,000 / 228,000						
	Capacity (Blu/	Nominal / Rated Heating <sup>2</sup>	270,000 / 258,000						
i chomanoc	System Modul	lation Down to (Btu/h)	7,513						
	EER	Ducted / Non-Ducted	10.6 / 10.6						
	IEER	Ducted / Non-Ducted	20.1 / 22.0						
Power	Voltage	(ø/V/Hz)	3 / 208-230 / 60	Compatibility					
Indoor Units	Total Capacity	/ (%)	50 - 130% Of Outdoor Unit Capac	Only compatible with Samsung DVM S indoor units (AM****N*DCH***)					
Indoor Onits	Maximum Indo	oor Unit Quantity	41						
Refrigerant	R410A Factor	y Charge (lbs.)	36.38	Construction The unit shall be galvanized steel with a baked on powder coated finish.					
Pipe Connections Liquid X Suction (inches)		5/8 X 1 1/8							
	Max. Distance	e - ODU to IDU (feet)	656 (722 equivalent)	Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube.					
Installation	Vertical	ODU to IDU	361 (ODU above) / 131 (ODU belo						
Limitation <sup>3</sup>	Separation (fe	et) Highest/Lowest IDU	164	Controls					
	Total Refrigera	ant Pipe (feet)	3,280	The unit shall be operated via NASA Protocol with controls provided by Samsung					
Operating	Cooling	°F	23 - 120	The outdoor unit shall have a removable EEPROM that stores unit serial number, startup					
Temperatures	Heating	۴	-13 - 75	information, system settings, and system tag/name.					
System Sound Level dB (A) Max.		Max.	65	Controls shall integrate with a BMS system without additional interface modules					
Required Accessories	Outdoor Modu	Ile Connection Kit	1 X MXJ-TA3819M	Control wiring shall be 16 AWG X 2 shielded wire.					
		c to ensure proper operation with	in unit design limitations and operatio	nal Refrigerant System					
	parameters			The compressors shall be Samsung hermetically sealed, inverter driven, direct vapor					
Protection Device	- · · ·		er-voltage protection, compressor ove or voltage protection, fan motor therm	Jerrer, e e alter e errerer d'					
FIGUECUON Device		erheat protection, phase detectio		Vapor injected compressors provide improved performance in cooling and heating modes.					
	Inverter PCB of	cooling done with liquid refrigerar	nt to maintain optimal and safe operation	Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the					
	temperatures			- system.					
Accessories				Subceeling devices in system maintain canacity at extreme system refrigerant nine lengths					
Qty.	Model Number	Number Description		Subcooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.					
1		Outdoor module connection kit -	liquid and suction						
	WHG-SL	Left wind/hail guard (1)		Other Features Asymmetrical scroll design with rotating compressor operation/priority (where applicable).					
WHG-SR		Right wind/hail guard (1)							
	WHG-R1	Rear wind/hail guard for 6 ton outdoor unit (1)		Optional night quiet modes to reduce outdoor unit sound (4 levels)					
	-	Rear wind/hail guard for 8 - 16 ton outdoor unit (1)							
	WHG-T1 Top wind/hail guard for			Optional snow blowing logic to prevent snow accumulation on idle outdoor units					
	WHG-T2         Top wind/hail guard for 8 - 16 ton of           MCM-C200         Mode selector switch for heat pump		( )	Continuous operation while outdoor unit(s) change between heating and cooling modes					
1 Nominel!		· .		(conditions apply).					
75°F WB.			67°F WB. Outdoor temperature: 95°F C	Maximum current control of outdoor unit(s) to limit current (50% - 100% of design current) adjustable at outdoor unit or central control devices: DMS 2 (MIM-D00AN) BACnet Gateway					
<sup>2</sup> Nominal heating of 43°F WB.	capacities are based	a on. maoor temperature: 70 °F DB,	60°F WB. Outdoor temperature: 47°F E	<sup>DB,</sup> (MIM-B17N), LON Gateway (MIM-B18N).					

<sup>3</sup> Other pipe restrictions and requirements exist. Please consult technical data book or installation manuals for full details regarding limitations and other requirements for vertical separation over 163 feet (outdoor to lowest indoor).

Samsung and Quietside maintains a policy of ongoing development, specifications are subject to change without notice.

Energy savings options to reduce system energy consumption in heating mode when average indoor room temperatures are greater than average indoor set temperatures.





## SUBMITTAL AM240JXVAFH/AA

Samsung DVM S Series, Heat Pump Condensing Unit

## System Specifications

Module Model Num	ber	AM072FXVAFH/AA	AM168HXVAFH/AA	
	US Ton (nominal)		6	14
Performance	Connecity (Ptu/h)	Nominal / Rated Cooling <sup>1</sup>	72,000 / 69,000	168,000 / 160,000
Performance	Capacity (Btu/h)	Nominal / Rated Heating <sup>2</sup>	81,000 / 77,000	189,000 / 180,000
	System Modulation Down to	Btu/h	7,513	7,513
	Voltage	(ø/V/Hz)	3 / 208-230 / 60	3 / 208-230 / 60
Power	Maximum Circuit Breaker (MCC	B/ELB/ELCB)	35	80
Fower	Minimum Circuit Ampacity (MCA	A)	28.0	66.0
	SCCR	kA	5	5
Comprossor	Туре		SSC Scroll X 1	SSC Scroll X 2
Compressor	RLA	A	14.3	24.0
Refrigerant	R410A Factory Charge	lbs.	12.13	24.25
Pipe Connections	Liquid X Suction	inches	3/8 X 3/4	5/8 X 1 1/8
	Fan	Туре	Propeller X 1	Propeller X 2
	Fail	Output (CFM)	7,240	10,948
Condenser Fan		Туре	DC	DC
	Motor	Output (W)	630 X 1	620 X 2
		FLA (A)	4.0	3.0
	Max. External Static Pressure	"WC	0.31	0.31
Dimensions	WXHXD	Inches	34 5/8 X 66 3/4 x 30 1/8	51 X 66 3/4 X 30 1/8
Dimensions	Weight	lbs.	425.5	716.5
Sound Level	dB (A)	Max.	60	63
Safety Certifications	i	ETL & ETLc		

<sup>1</sup> Nominal cooling capacities are based on: Indoor temperature: 80 °F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.

<sup>2</sup> Nominal heating capacities are based on: Indoor temperature: 70 °F DB, 60°F WB. Outdoor temperature: 47 °F DB, 43°F WB.

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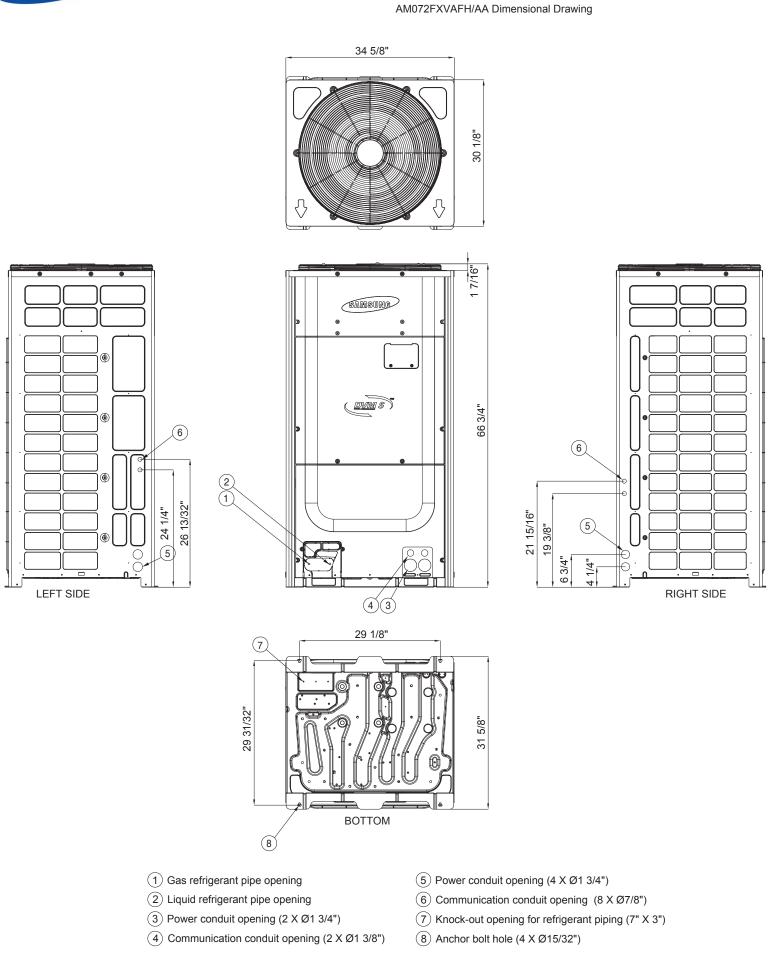
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## SUBMITTAL AM240JXVAFH/AA

Samsung DVM S Series, Heat Pump Condensing Unit AM072FXVAFH/AA Dimensional Drawing

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