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Comfort Systems USA (Arkansas), Inc.
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Date: 4/20/2026

Return Request: 4/27/2026

Project: Hot Springs National Park – Rehabilitate Bathhouses – Maurice Bathhouse

Supplier: Powers of Arkansas

Manufacturer: Samsung

Submittal: VRF Systems (HP-1M and IU-1M through IU-4M) - Re-Submittal #1

Submittal Number: 238126.001

Spec Sections: 238126 and 238145

Drawing # and Installation Location: M1.4

ARCHITECT

Strata Architecture
1701 Oak Street, Suite 100
Kansas City, Missouri 64108
(816)474-0900

GENERAL CONTRACTOR

Tepa, LLC
2345 Grand Blvd, Suite 700
Kansas City, Missouri 64108
(816)708-1110

ENGINEER

IMEG Corp.
1600 Baltimore Street, Suite 300
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(816)842-8437

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Road
North Little Rock, Arkansas 72117
(501)834-3320

Comments:

To avoid confusion, this submittal will include all items associated with Variable Refrigerant Flow systems for this project. Specification sections 238126 and 238145 are included...

CSUSA PROJECT NO.

25-7065

joe@comfortar.com

9924 Landers Road
No. LittleRock, AR 72117

Submittal

JOB NAME	Maurice Bathhouse
PRODUCT	VRF Heat Pumps - (HP-1M + IU-1, 2, 3, 4)
MANUFACTURER	Samsung
LOCATION	Hot Springs, AR
DATE	April 21, 2026
SPECIFICATION	23 81 45-2
LEAD TIME	TBD
ARCHITECT	Strata Architecture
ENGINEER	IMEG Corp
CONTRACTOR	TEPA
CONTRACTOR POC	Joe Loomis
SUBMITTED BY	Eric Blaylock Keith Clement
SALESPERSON	Eric Blaylock

Submittal Number 238145 - VRF Resubmittal Notes(unit tags HP-1M + IU-1,2,3,4)

1. R-410A equipment has been phased out. Due to project timing and manufacturer availability, the resubmitted system is provided with next-generation R-32 refrigerant equipment. Per RFI response, new refrigerant is preferred if unavailable equipment must be replaced, provided capacity requirements are maintained.
2. Submitted Samsung VRF outdoor unit HP-1M is selected to satisfy the scheduled cooling and heating design intent to the extent practical within the manufacturer selection program and submitted piping configuration. Cooling and heating capacities shown are based on the manufacturer's current R-32 selection and corrected system performance.
3. The project schedule requires design heating capacity to be evaluated at 59°F indoor DB and -10°F outdoor DB. Samsung minimum indoor heating design DB is 61°F in the selection program. Accordingly, heating performance verification in the submitted manufacturer run is based on 61°F indoor DB minimum. Approval as noted is requested.
4. Condensing unit compressors are standard factory provided with crankcase heaters, oil separators, and oil recovery functions.
5. Outdoor unit hail / wind guards are included in the resubmittal.
6. Roof equipment rail supports and vibration isolation are not part of the Samsung manufacturer package and shall be field coordinated / separately provided by the installing contractor.
7. Refrigerant piping is field provided / field installed by the installer.
8. The controller serving HP-1M / IU-1,2,3,4 is submitted as Samsung advanced wired controller MWR-WG01UN. Approval as noted is requested in lieu of the scheduled wireless controller requirement.
9. Controller connection to the external temperature sensor located in the skylight shall be coordinated and completed by the controls team in the field.
10. Samsung VRF, like other VRF manufacturers, does not provide hot-gas reheat dehumidification. The submitted system provides moisture reduction through normal VRF modulation of compressor, fan, and electronic expansion valve operation, but not a dedicated reheat-based dehumidification mode. Note: this is not unique to Samsung.
11. Please note any remaining minor deviations in an approved as noted copy of the submittal to avoid unnecessary delay to final approval and overall project schedule.



**Rehabilitate Bathhouses - Maurice
5440 Northshore Drive
NORTH LITTLE ROCK AR 72118**

Submittal Data

Date Submitted : April 21, 2026 11:46 AM

Submitted to : IMEG

Submitted by : Contractor Sales: Eric Blaylock Engineering Account: Keith
Clement

Engineer : IMEG

Submitted for :

For information contact : Joe Loomis

SAMSUNG

Date submitted : 04/21/2026
Project name : Rehabilitate Bathhouses - Maurice
Submitted to : IMEG
Submitted by : Contractor Sales: Eric Blaylock Engineering Account: Keith Clement
Manufacturer : Samsung HVAC
Submitted for :

Submittal Note

Table of Abbreviations

Abbreviation	Description
Add. Ref.	Additional Refrigerant
AM	Airflow Mode
Block Load	Block Load
CM	Cooling Operation Mode
Corr. Capa	Correction Capacity
Corr. PI	Correction Power Input
CR	Combination Ratio
DB	Dry Bulb Temperature
Des Temp	Design Temperature
Dis. Temp.	Discharge Temperature
Equip. Name	Equipment Name
EWT	Entering Water Temperature
FR	Flow Rate
HM	Heating Operation Mode
IDU	Indoor Unit
LWT	Leaving Water Temperature
Max. Capa	Maximum Capacity
Min. HOR	Minimum Heating Operation Ratio
ODU	Outdoor Unit
Op. WF Range	Operating Water Flow Range
Op. WT Range	Operating Water Temperature Range
Operating Temp. Range	Operating Temperature Range
PHE	Plate Heat Exchanger
Pipe Mat.	Piping Material
PL	Pressure Loss
PWL	Sound Power level
Ref. Pipe	Refrigerant Pipe
Rq. Vent. Vol.	Required Ventilation Volume
SHC	Sensible Heat Capacity
SPL	Sound Pressure Level
TC	Total Capacity
WB	Wet Bulb Temperature
47/43, 120	DB / WB, LWT (for DVM Chiller Heating capacity)

Equipment List

Type	Model Code	Description			Unit	Qty.
ODU	AM120HCVGFG/AA	DVM S2 Heat Pump			EA	1
IDU	AM032FEQDCG/AA	Wall Mounted			EA	4
Pipe Mat.	MXJ-YA2512M	Y-joint			EA	3
Controller	MWR-WG01UN	Wired remote controller			EA	1
Accessory	586WBS-6SW	3/8" Isolation valve swedged braze			EA	4
	586WBS-8SW	1/2" Isolation valve swedged braze			EA	4
	BD-BLUE230	Blue Diamond Maxi Blue Condensate Pump			EA	4
	WHG-F1-B	WHG-F1-B Medium Chassis Front Guard			EA	1
	WHG-R2-B	WHG-R2-B Medium Chassis Rear Guard			EA	1
	WHG-SL-B	WHG-SL-B Small/Large Left Guard			EA	1
	WHG-SR-B	WHG-SR-B Small/Large Righ Guard			EA	1
	WHG-T2-B	WHG-T2-B Medium Chassis Top Guard			EA	1
Add. Ref.	R32	Refrigerant			lbs	11.34
Type	Size	Length [ft] / Quantity [EA]				
		Liquid Pipe	Gas Pipe	H.P. Gas	Total	
Ref. Pipe	9.52(3/8")	116.00	0.00	0.00	116.00	
	12.7(1/2")	20.00	0.00	0.00	20.00	
	15.88(5/8")	0.00	86.00	0.00	86.00	
	19.05(3/4")	0.00	30.00	0.00	30.00	
	22.22(7/8")	0.00	20.00	0.00	20.00	
Elbow	19.05(3/4")	0.00	2.00	0.00	2.00	
	22.22(7/8")	0.00	1.00	0.00	1.00	

Piping

System (HP-1M)

Design Condition

Design Condition (Air)	Outdoor		Indoor	
	CM	HM	CM	HM
Temperature (DB/WB) [°F]	100.00 / 78.00	15.00 / 12.00	82.00 / 67.00	61.00 / 59.00
Altitude Correction	-			

Installation

Type	Floor	Room Name	Equip. Name	Model Code
ODU	1F	-	HP-1M	AM120HCVGFG/AA
IDU	1F	-	IU-1M	AM032FEQDCG/AA
		-	IU-2M	AM032FEQDCG/AA
		-	IU-3M	AM032FEQDCG/AA
		-	IU-4M	AM032FEQDCG/AA

Outdoor Unit

Equipment Name	Model Code	Combination Ratio [%]	Des Temp [°F]	
			CM (IN WB)	HM (IN DB)
HP-1M	AM120HCVGFG/AA	105.67	67.00	61.00

* Des Temp : The sum of (Rated capacity ratios for each indoor unit * WB/DB temperatures for each indoor unit)

Max. Capa. [Btu/h]		Corr. Capa. [Btu/h]		Power Input (Rated/Corrected) [kW]	
CM	HM	CM	HM	CM	HM
123769	156351	123769.00	137600.00	-/9.052	-/15.130

* Capacity Correction (VRF Only) based on Simultaneous Operating

* Corr. Capa. is a value calculated as simultaneous operating.

*** Corrected Power Input : Electrical wiring work shall fully comply with Installation Manual, Local / National Electrical regulations. Contact a Samsung expert for more information. Samsung Electronics is not responsible for any problems that may occur during use.**

Piping (Continued)

System (HP-1M) (Continued)

Indoor Unit

Equip. Name	Model Code	AM	Des Temp[°F]		Max. Capa. [Btu/h]			Corr. Capa. [Btu/h]		
			CM	HM	CM		HM	CM		HM
			IN WB	IN DB	TC	SHC	TC	TC	SHC	TC
IU-1M	AM032FEQDCG/AA	H	67.00	61.00	31700.00	24013.00	34400.00	30942.00	23439.00	34400.00
IU-2M	AM032FEQDCG/AA	H	67.00	61.00	31700.00	24013.00	34400.00	30942.00	23439.00	34400.00
IU-3M	AM032FEQDCG/AA	H	67.00	61.00	31700.00	24013.00	34400.00	30942.00	23439.00	34400.00
IU-4M	AM032FEQDCG/AA	H	67.00	61.00	31700.00	24013.00	34400.00	30942.00	23439.00	34400.00

* Capacity Correction (VRF Only) based on Simultaneous Operating

* Corr. Capa. is a value calculated as simultaneous operating.

Accessory

Equip. Name	Model Code	Address				Accessory
		Main		RMC		
HP-1M	AM120HCVGFG/AA	-	-	-	-	WHG-SL-B, WHG-SR-B, WHG-R2-B, WHG-F1-B, WHG-T2-B
IU-1M	AM032FEQDCG/AA	-	-	-	-	586WBS-6SW, 586WBS-8SW, BD-BLUE230
IU-2M	AM032FEQDCG/AA	-	-	-	-	586WBS-6SW, 586WBS-8SW, BD-BLUE230
IU-3M	AM032FEQDCG/AA	-	-	-	-	586WBS-6SW, 586WBS-8SW, BD-BLUE230
IU-4M	AM032FEQDCG/AA	-	-	-	-	586WBS-6SW, 586WBS-8SW, BD-BLUE230

Combination Ratio

Model Code	CR [%]	Operation Mode	Min. HOR [%]	Block Load [Btu/h] / [%]		Corr. Capa. [Btu/h]	
				CM	HM	CM	HM
AM120HCVGFG/AA	105.67	HP	-	-/-	-/-	123769.00	137600.00

* Block Load (VRF Only) Option : Apply (Ratio=[Corr.Capac./Block Load])

* Capacity Correction (VRF Only) based on Simultaneous Operating

* Corr. Capa. is a value calculated as simultaneous operating.

System Check Result

Checklist	Restriction Value	Design Result
Long pipe length is 64.97 ft (Restriction: 656.17 ft). [IU-2M(AM032FEQDCG/AA)]	656.17 ft	64.97 ft
Total pipe length is 138.95 ft (Restriction: 3280.84 ft).	3280.84 ft	138.95 ft

Piping (Continued)

System (HP-1M) (Continued)

System Check Result

Checklist	Restriction Value	Design Result
Pipe length from first Y-Joint to the farthest IDU is 44.97 ft (Restriction: 147.64 ft). [IU-2M(AM032FEQDCG/AA)]	147.64 ft	44.97 ft
Height difference between ODU and IDU is 0.00 ft (restriction: 361.00 ft) (ODU higher than IDUs). [HP-1M(AM120HCVGFG/AA)]	361.00 ft	0.00 ft
Height difference between ODU and IDU is 6.56 ft (restriction: 361.00 ft) (ODU lower than IDUs). [HP-1M(AM120HCVGFG/AA)]	361.00 ft	6.56 ft
Height difference between IDUs when there is no wall mounts with EEV is 0.00 ft (restriction: 131.23 ft).	131.23 ft	0.00 ft
Height difference between IDUs when there are wall mounts with EEV is 0.00 ft (restriction: 98.43 ft).	98.43 ft	0.00 ft
Height difference between the lowest IDU and the highest wall mount with EEV is 0.00 ft (restriction: 49.21 ft).	49.21 ft	0.00 ft
Height difference between MCUs is 0.00 ft (restriction: 98.43 ft).	98.43 ft	0.00 ft

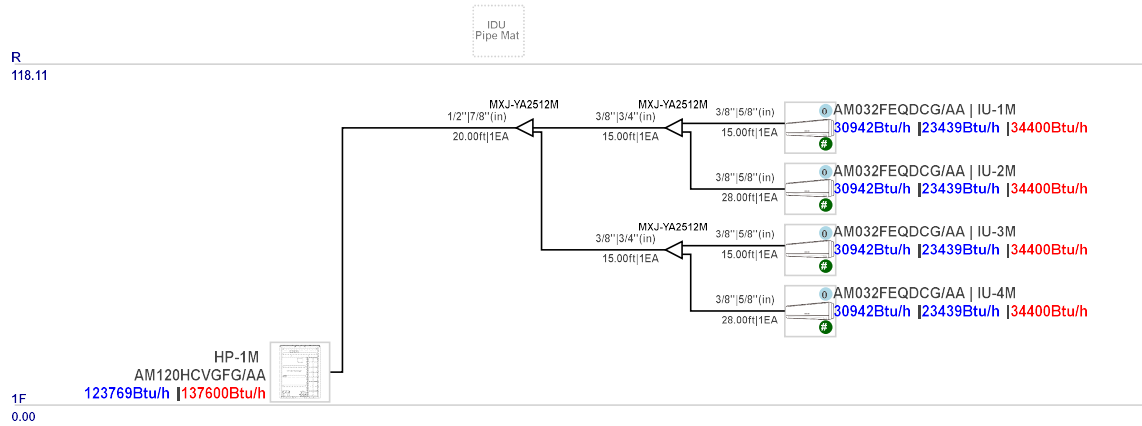
Refrigerant

Factory Charging and Additional Refrigerant Amount	Refrigerant Amount [lbs]
Factory Charging Refrigerant Amount	14.10
Additional Refrigerant Amount	11.34
Total	25.44

Piping (Continued)

System (HP-1M) (Continued)

Piping Diagram / Rehabilitate Bathhouses - Maurice / Combination Ratio 105.67%

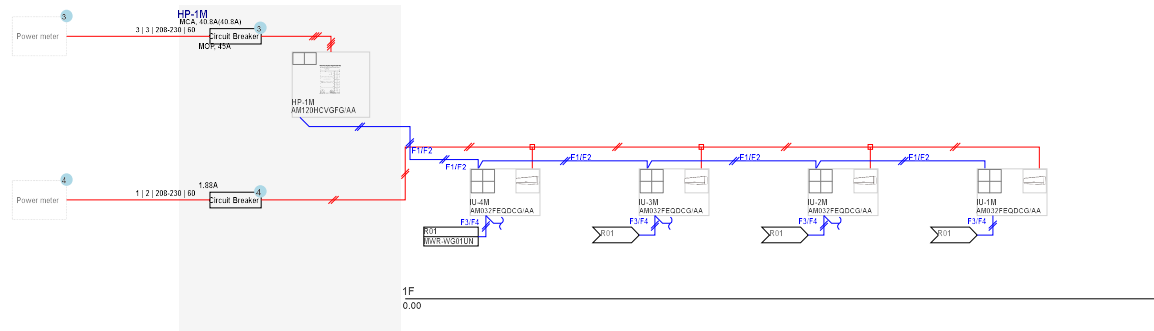


* Capacity Correction (VRF Only) based on Simultaneous Operating

-The above system configuration may differ from The actual installation conditions.
 Please refer to The installation manual for full details.

Wiring and Controller

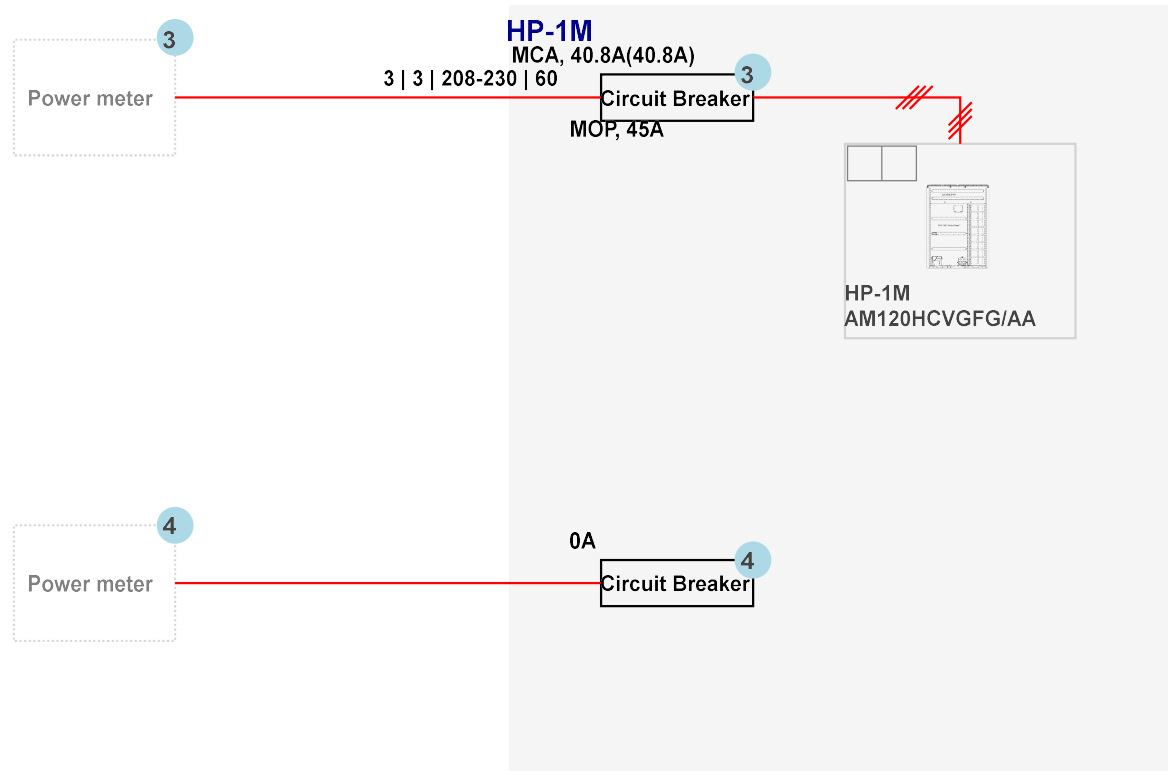
Wiring and Controller Diagram



-The above system configuration may differ from The actual installation conditions.
Please refer to The installation manual for full details.

Controller

Controller Diagram

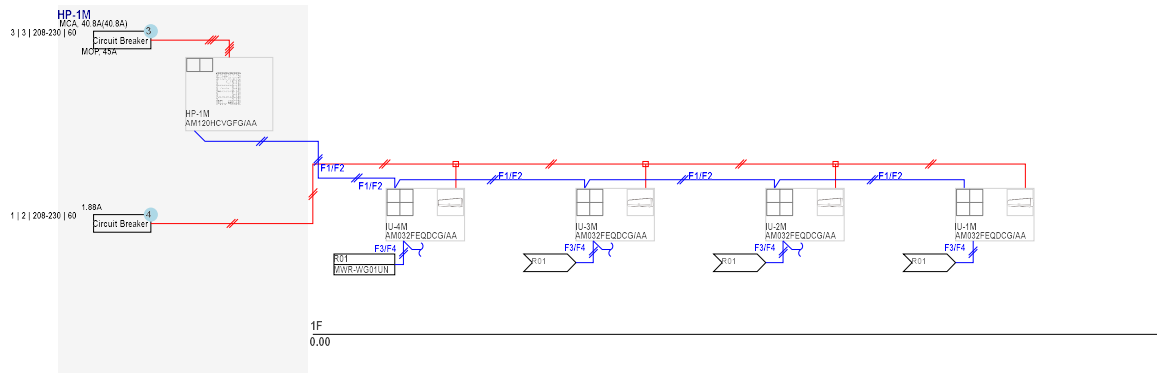


-The above system configuration may differ from The actual installation conditions.
Please refer to The installation manual for full details.

Wiring

System (HP-1M)

Wiring Diagram



-The above system configuration may differ from The actual installation conditions.
Please refer to The installation manual for full details.

Product Specification

HP-1M

Outdoor Unit

Model Name					AM120HCVGFG/AA
Module					Single
Power Supply				Ø, #, V, Hz	3 3 208-230 60
Performance	Ton				10
	Capacity	Cooling	Nominal	Btu/h	120000
			Rated	Btu/h	114000
		Heating	Nominal	Btu/h	135000
			Rated	Btu/h	129000
Power	Current	MCA		A	40.8
		MOP		A	45
Casing	Material	Body			GI Steel Plate
		Base			GI Steel Plate
Heat Exchanger	Type				Fin & Tube
	Material	Fin			Al
		Tube			Cu
	Fin Treatment				Anti-corrosion
Compressor	Quantity			EA	2
Fan	Type				Propeller
	Discharge direction				Top discharge
	Quantity			EA	2
	Air Flow Rate	High		CFM	9924
	External Static Pressure	Max		W G	0.44
Fan Motor	Type				BLDC
	Quantity			EA	2
	Output			W	620
Piping Connections	Liquid Pipe	Type			Welding
		Diameter		in	1/2"
	Gas Pipe	Type			Welding
		Diameter		in	7/8"
Wiring connections	Communication	Min.		AWG	18
		Comm.Layer			F1,F2
Refrigerant	Type				R32
	Factory Charging			lbs	14.1
Sound	Sound Pressure	Cooling		dB(A)	57
	Sound Power Level	Cooling		dB(A)	79

Product Specification

HP-1M (Continued)

Outdoor Unit

External Dimension	Net Weight		lbs	551
	Shipping Weight		lbs	589
	Net Dimensions	W	in	50.98
		H	in	66.73
		D	in	30.12
	Shipping Dimensions	W	in	53.66
		H	in	74.29
		D	in	32.64
Operating Temp. Range	Cooling	Min.	°F	5
		Max.	°F	126
	Heating	Min.	°F	-22
		Max.	°F	75
Maximum number of connectable indoor units			EA	20

Product Specification

HP-1M (Continued)

Indoor Unit

Model Name						AM032FEQDCG/AA
Power Supply					Ø, #, V, Hz	1 2 208-230 60
Mode						HP
Performance	MBH					31.7
	Capacity	Cooling	Nominal	Btu/h	31700	
		Heating	Nominal	Btu/h	33400	
Power	Power Input	Cooling	Nominal	kW	0.066	
		Heating	Nominal	kW	0.076	
	Current Input	Cooling	Nominal	A	0.47	
		Heating	Nominal	A	0.54	
	Current	MCA		A	0.68	
		MOP		A	15	
		FLA	A	A	0.54	
Heat Exchanger	Type					Fin & Tube
	Material	Fin				Al
		Tube				Cu
Fin Treatment						Blue Hydrophile
Fan	Type					Crossflow Fan
	Quantity				EA	1
	Air Flow Rate	High			CFM	812
		Mid			CFM	706
		Low			CFM	600
Fan Motor	Type					BLDC
	Quantity				EA	1
	Output				W	58
Piping Connections	Liquid Pipe	Type				Flaring
		Diameter			in	3/8"
	Gas Pipe	Type				Flaring
		Diameter			in	5/8"
	Drain Pipe	Diameter				VP25
Wiring connections	Communication	Min.			AWG	18
		Comm.Layer				F1, F2
Refrigerant	Type					R32
	Control Type					EEV included
Sound	Sound Pressure	High			dB(A)	49

Product Specification

HP-1M (Continued)

Indoor Unit

Sound	Sound Pressure Level	Mid	dB(A)	46
		Low	dB(A)	42
	Sound Power Level	Cooling	dB(A)	66
External Dimension	Net Weight		lbs	41.9
	Shipping Weight		lbs	48.5
	Net Dimensions	W	in	50.4
		H	in	13.6
		D	in	10
	Shipping Dimensions	W	in	53.2
		H	in	12.8
		D	in	16.5



Samsung HVAC Equipment Summary

Unit Type	Unit Description	Unit Name	Unit US Code	Qty	Tag
VRF Indoor Unit	3232K Btu/h High-wall unit	AM032FEQDCG/AA		4	
VRF Outdoor Unit	120K Btu/h 230V 3Ø, VRF heat pump unit	AM120HCVGFG/AA		1	
Accessory	Condensate pump	BD-BLUE230		4	
		MWR-WG01UN		1	
VRF Refrigerant Fittings and Accessories	Y-joint	MXJ-YA2512M		3	
Accessory	Front wind/hail guard for veritcal discharge units - medium chassis	WHG-F1-B		1	
	Rear wind/hail guard for veritcal discharge units - medium chassis	WHG-R2-B		1	
	Left wind/hail guard for veritcal discharge units	WHG-SL-B		1	
	Right wind/hail guard for veritcal discharge units	WHG-SR-B		1	

SAMSUNG

SUBMITTAL DATA

AM032FEQDCG/AA High Wall Max, R-32 DVM S Indoor Unit

Job Name: Rehabilitate Bathhouses - Maurice
Purchaser: POWERS OF ARKANSAS INC. (SR)
Submitted to: IMEG
Unit Designation: IU-1, 2, 3, 4

Location: _____
Engineer: IMEG
Reference ☐ Approval ☒ Construction ☐
Schedule #: _____

General Information

- Compatible with R-32 DVM S2+, DVM S+ Water, and DVM S Mini systems
- The indoor unit shall have a built-in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app.

Construction

- The indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket
- The heat exchanger 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 indoor unit.
- The indoor unit shall include an R32 alarm output plug for simple notification or interlock of third-party equipment upon R32 leak detection (MIM-B14U accessory required).

Indoor Fan

- Three fan speed settings and auto settings
- Automatic (motorized) vertical swing (up/down) louver

Controls

- The unit shall be operated via a wireless or wired remote control with DDC-type signal (wired controller sold separately)
- The unit shall be operated via a wired remote controller model MWR-WG01UN, purchased separately.
- Dual set temperature support when connected to supported controllers.

External Heat Control

- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat (MIM-B14U accessory required).
- External heat control configuration settings include outside ambient



external heat lockout, outside ambient compressor lockout, and time delay options (MIM-B14U 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 (MIM-B14U 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

- 7-segment digital display on the front of the unit to display temperature and unit status
- Washable main filter as standard accessible from the top of the unit
- 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).



Specifications AM032FEQDCG/AA

Model	Indoor Unit Model Number		AM032FEQDCG/AA
Performance	Nominal Capacity	Cooling (Btu/h)	31,700
		Heating (Btu/h)	33,400
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Operating Current (max.)	Cooling (A)	0.47
		Heating (A)	0.54
	MCA	A	0.68
	MOP	A	15
Evaporator Fan	Type		BLDC motor with cross-flow fan
	Output	Watts	58
Airflow	Air Volume (L/M/H)	Cooling (CFM)	600 / 706 / 812
		Heating (CFM)	600 / 706 / 812
Refrigerant	Type		R-32
	A2L Leak Detection		Integral
Pipe Connections	Refrigerant	High side (In.)	3/8
		Low side (In.)	5/8
	Condensate		11/16" OD
Dimensions	W X H X D	In.	50 3/8 X 13 9/16 X 9 15/16
	Weight	lbs.	41.90
Sound Pressure Level	Low/Med./High/Turbo	dB(A)	42 / 46 / 49
Safety	Certifications		UL 60335-2-40

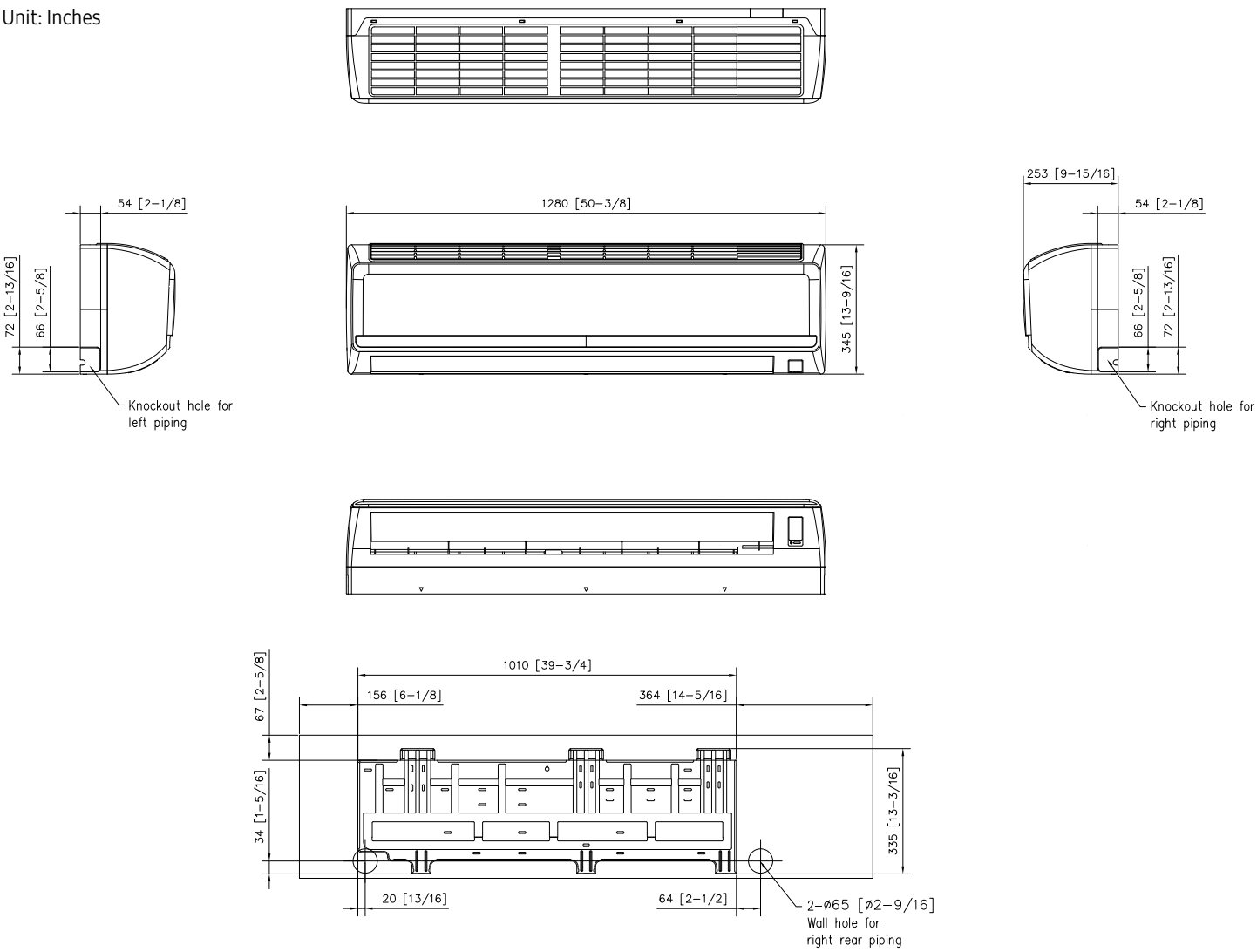
Accessories AM032FEQDCG/AA

Condensate pump	Aspen Mini Orange	☒ BD-BLUE-230
Wired controller	Advanced	☒ MWR-WG01UN
	Touchscreen	☐ MWR-SH12UN
Thermostat adapter (for connection to standard 24VAC thermostats)		☐ MIM-A60UN
Wireless controller		☐ AR-CH01U
External temperature sensor		☐ MRW-TAU
External contact control interface module		☐ MIM-B14U

Dimensional Drawing

AM032FEQDCG/AA

Unit: Inches



SAMSUNG

SUBMITTAL DATA

AM120HCVGFG/AA R-32 DVM S2+, Heat Pump 230V Outdoor Unit

Job Name: Rehabilitate Bathhouses - Maurice
Purchaser: POWERS OF ARKANSAS INC. (SR)
Submitted to: IMEG
Unit Designation: HP-1M

Location: _____
Engineer: IMEG
Reference ☐ Approval ☒ Construction ☐
Schedule #: _____

Compatibility

- R-32 DVM S indoor units, R-32 Mechanical Shut-off valve box (MSB)

Construction

- The units shall be galvanized steel with a baked-on powder-coated finish.

Refrigerant System

- The compressors shall be hermetically sealed, inverter-driven, direct flash injected, DC scroll type with soft-start capability manufactured by Samsung.
- The compressor(s) shall feature an asymmetrical scroll design with rotating compressor operation/priority (where applicable). Flash-injected compressors provide advanced low ambient heating performance.
- The system shall have subcooling devices to maintain capacity at extreme system refrigerant pipe lengths and to minimize refrigerant noise.
- The system shall allow a reduction of the main liquid refrigerant pipe (outdoor unit to first unit or Y-joint) by one diameter reducing total system refrigerant volume and pipe and insulation costs if line lengths and vertical separation are within the reduced pipe diameter guidelines. Available for 10 ton and above. Refer to supporting documents for complete guideline details.

Heat Exchanger

- The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating.
- Salt spray test method: ASTM-B117-18 - The heat exchanger showed no unusual rust or corrosion development to 3,000 hours.
- The heat exchanger shall consist of two separate circuits to enhance the heat pump defrost cycle.
- The unit shall use the entire coil initially for the defrost cycle. To resume heating faster in extreme conditions, the upper section shall return to heating operation while the lower section continues to defrost.

Artificial Intelligence

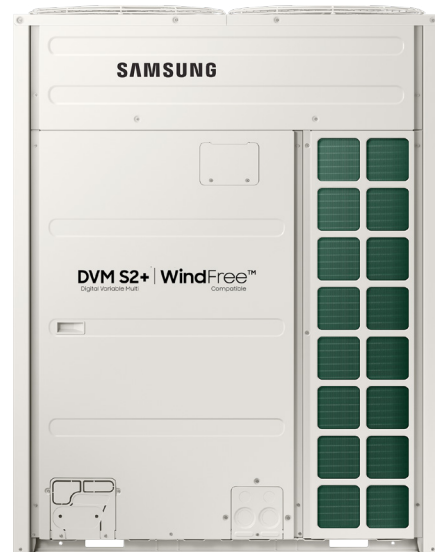
- The outdoor units shall feature Artificial Intelligence (AI) and shall monitor environmental and system operational data and use Deep Neural Network algorithms to provide optimal system performance and reliability. The VRF system shall incorporate an on-device AI control module capable of performing localized data processing.
- Active Artificial Intelligence (AI) shall be used to optimize high-pressure control, low-pressure control, defrost cycle activation and operation, and low refrigerant detection.
- The outdoor unit shall use Active Artificial Intelligence (AI) to monitor system refrigerant volume while in cooling mode to detect possible leaks or low refrigerant charge and provide an error code before system shutdown (conditions apply).

Controls

- The outdoor units shall have a removable EEPROM that stores the unit serial number, startup information, system settings, system tag/name, and other information.
- Control wiring shall be 16 AWG X 2 shielded wire.

Other Features

- The system shall include an automatic refrigerant leak mitigation function that



performs pump-down upon leak detection, activates forced fan and ventilation control, and supports connection to a Mechanical Shut-off Valve Box (MSB). All indoor units shall be equipped with Refrigerant Detection Sensors (RDS) to continuously monitor and respond to potential refrigerant leaks.

- Inverter PCB cooling shall be done with liquid refrigerant and air to maintain optimal and safe operating temperatures.
- The system shall feature advanced oil recovery cycle logic (maximum duration in cool mode: 3 minutes, maximum duration in heat mode: 6 minutes, and defrost cycles lasting over 3 minutes are considered oil recovery cycles). Oil recovery operation shall not interrupt heating or cooling operation.
- The outdoor units shall feature optional night quiet modes to reduce outdoor unit sound (4 levels) with automatic activation or manual activation (with MIM-B14U accessory).
- The outdoor unit shall feature advanced intelligent defrost logic to significantly reduce defrost cycle frequency by monitoring air resistance across the condenser coil during heating operation to determine defrost operation initiation to prevent unnecessary defrost cycles.
- The outdoor units shall feature optional snow-blowing logic to prevent snow accumulation on idle outdoor units
- The outdoor unit shall feature maximum current control settings to limit current (50% - 100% of design current) adjustable at the outdoor unit, supported central controls, and supported indoor unit wired controllers.
- The outdoor unit shall feature energy savings options to reduce system energy consumption when average indoor room temperatures are greater than average indoor set temperatures in heating mode or when average indoor room temperatures are lower than average indoor set temperatures in cooling mode.



SAMSUNG

SUBMITTAL DATA

SPECIFICATIONS AM120HCVGFG/AA

Outdoor Unit Model Number				AM120HCVGFG/AA
Mode			-	Heat Pump
Performance	Ton		TON	10
	Rated Capacity ¹	Cooling	Btu/h	114,000
		Heating	Btu/h	129,000
	EER (Ducted / Non-Ducted)			11.70 / 11.15
	IEER (Ducted / Non-Ducted)			22.60 / 25.92
	High Heat COP (Ducted / Non-Ducted)			3.80 / 3.85
Power	Power Supply		Φ/ #/ V/ Hz	3/ 3/ 208~230/ 60
	MCA / MOP		A	40.8 / 45
Dimension	Dimensions (WxHxD)		inch	51 x 66-3/4 x 30-1/8
	Weight		lbs.	551
Sound	Pressure	Cooling / Heating	dB(A)	57 / 60
Operating Temperature	Cooling ²		°F	5 ~ 126
	Heating		°F	-22 ~ 75
Pipe	Liquid , Gas Connection		Φ, inch	1/2 , 7/8
	Max Length - ODU to Farthest IDU		ft	656 (722 equivalent)
	Max Piping Length (1st Branch-IDU)		ft	295
	Max. Total Refrigerant Pipe Length		ft	3,281
	Max Vertical Separation	ODU to IDU ³	ft	361
		Highest/Lowest IDU	ft	164
Refrigerant	R-32 Factory Charge		lbs.	14.1
Compressor	Type		-	Flash Injected, Inverter Scroll x 2
	Rated Load Amps (RLA)		A	14.4 + 14.4
Fan	Type		-	BLDC Motor with Propeller
	FLA / Motor Output / Airflow		A/ W/ CFM	4.2 + 4.2 / 620 x 2 / 9924
Safety	Certifications			ETL & ETLc
	Devices	High pressure sensor, low pressure sensor, over-voltage protection, compressor over- current protection, current transformer, fan motor voltage protection, fan motor thermal protection, overheat protection, phase detection protection, high voltage fuses		

¹Certified in accordance with the AHRI Variable Refrigerant Flow Multi-Split Air-Conditioners and Heat Pump (VRF) Certification Program which is based on the latest edition of AHRI Standard 1230.

²Cooling operation range is 23-126°F (-5 - 52°C) as standard. When in Main Heating, cooling operation down to 5°F (-15°C) outdoor temperature is possible with modified pipe design for indoor units that require cooling. Cooling or Main cooling is possible down to -13°F (-25°C) when using a low ambient cooling kit. Consult technical documents or Samsung HVAC for details.

³When the outdoor unit is lower than indoor units, and vertical separation is greater than 131 feet, additional conditions apply. When the outdoor unit is higher than the indoor units, and vertical separation is greater than 163 feet, additional conditions apply. Please refer to supporting documents at www.SamsungHVAC.com.

SAMSUNG

SUBMITTAL DATA

ACCESSORIES AM120HCVGFG/AA

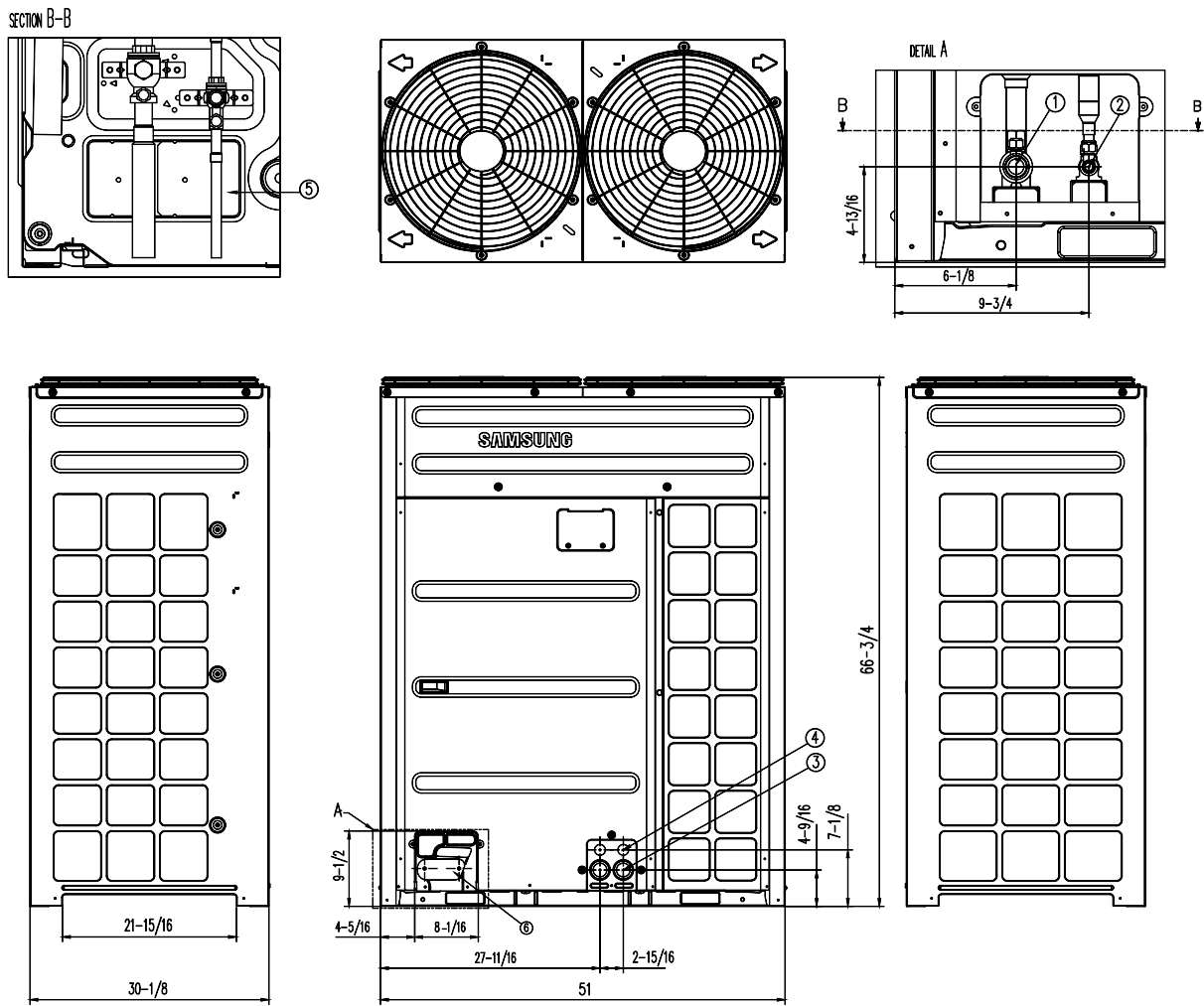
Qty	Model Number	Description
1	WHG-T2-B	Top wind/hail guard (8 - 14 ton outdoor units)
1	WHG-SL-B	Left side wind/hail guard
1	WHG-SR-B	Right side wind/hail guard
1	WHG-R2-B	Rear wind/hail guard for 8 - 14 ton units
1	WHG-F1-B	Front wind/hail guard for 8 - 14 ton outdoor units
	LACH-2-KIT-B	Low ambient cooling hood and side guards (medium chassis, 1 required)
	MCM-C200	Heat pump mode selector switch
	BPHK-230V-2	Base pan heater kit (base pan pan heater and control box, 1 required)
	MIM-B14U	External contact control interface module for operation and error output and night silent mode manual activation (1 required)

SAMSUNG

SUBMITTAL DATA

DIMENSIONAL DRAWING AM120HCVGFG/AA

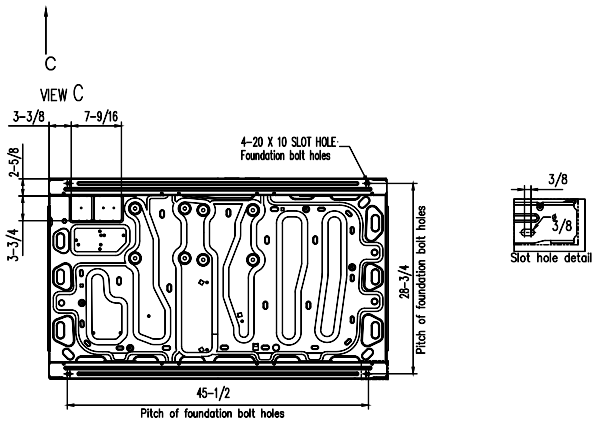
Unit: Inches



NOTE

1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
2. Item 3-6: Knockout hole
3. View C indicate the dimension of knockout hole (bottom)
4. Pipe [Ø, inch]: Brazing connection

kBtu	Liquid Pipe	Gas Pipe
096	3/8	7/8
120	1/2	7/8
144	1/2	1-1/8
168	1/2	1-1/8



No.	Description	Remark	No.	Description	Remark
1	Gas refrigerant pipe	See Note	5	Knockout hole for refrigerant piping	Bottom
2	Liquid refrigerant pipe	See Note	6	Knockout hole for refrigerant piping	Front
3	Power conduit knockout	Ø44			
4	Communication wire knockout	Ø34			

Project Information:**Job Name:** Rehabilitate Bathhouses - Maurice**Location:****Engineer:** IMEG**Submitted to:** IMEG**For:** ☐ Reference ☒ Approval ☐ Construction**Submitted by:** POWERS OF ARKANSAS INC. (SR)**Reference:****Submittal Information:****Approval:****Date:****Construction:****Unit #:** IU-1, 2, 3, 4**Drawing #:****Engineering Submittal**

6.2"L x 2.28"W x 2.65"H

3.7 g/hr flow

23' head

16.5' suction lift

Reservoir with thermistor sensing and alarm contacts

Reservoir dimensions: 3.62"L x 1.42"W x 1.57"H

Voltage: 208-230v

50 - 60 Hz

21DB sound rating

UL listed and Plenum Rated-File No. REUZ.E326285

3 year warranty

The MaxiBlue condensate pump(s) shall be permanently live so they operate when the FCU's are switched off. Fault alarm cables from the condensate pumps shall be connected to the building's BMS system

If pump location is +6' the extension cable C13-103 must be specified with the pump

SAMSUNG

Submittal Data

MWR-WG01UN

Advanced Wired Controller

Job name: Rehabilitate Bathhouses - Maurice

Purchaser: POWERS OF ARKANSAS INC. (SR)

Submitted to: IMEG

Unit designation: IU-1, 2, 3, 4

Location: _____

Engineer: IMEG

Reference ☐

Approval ☒

Construction ☐

Schedule #: _____

Features

Easy Indoor Unit Control**

- Air handler operation ON/OFF
- Air handler operation mode, set temperature, air flow direction, fan speed
- Discharge air temperature setting (for supported indoor unit models)
- Filter replacement alarm display and reset
- Time synchronization with supported Samsung central controllers
- Dual Set Temperature (for supported indoor unit models)
- Advanced HP auto changeover control and configuration
- Quiet and sleep modes
- Freeze Wash activation
- Error display (up to 10 error codes with descriptions)
- Supports enabling indoor unit AP mode for connecting integral indoor unit Wi-Fi adapter to SmartThings, and turning indoor unit Wi-Fi connection ON/OFF, indoor unit Wi-Fi information reset, and Wi-Fi adapter reset.

Energy Saving Operation

- Upper/lower temperature restriction setting
- Occupied/unoccupied settings
- Setback function
- Energy saving operation mode
- Energy consumption monitoring and daily, weekly, monthly, and yearly energy consumption trending (for supported systems)
- Maximum current control (for supported outdoor unit models).

Weekly Operating Schedule

- Weekly operating schedule
- Set desired A/C operation mode, setting temperature and fan speed to operate based on weekly schedules
- Schedule exception day option

Other Features**

- Emergency heat/auxiliary heat operation indication on display (for supported outdoor unit models)
- Color display screen
- Different button permission levels
- Supports multiple languages
- Partial button lock options (operation on/off, heat mode, cool mode, fan mode, dry mode, auto mode, set temperature, fan speed, scheduling, Wind-Free, Long-wind, quiet mode, and sleep mode buttons can be locked individually).
- Daylight savings clock advance option
- Temperature limit setting option
- Real-time clock function
- Built-in IR receiver for indoor unit control using a wireless controller and integral room temperature sensor
- Indoor unit operation state display
- Indoor unit service mode support
- Micro SD card slot for simple firmware updating
- Independent louver control for cassette units



- Airflow direction control for 360 Cassette indoor units.
- Adjustable heating temperature compensation values
- WindFree™** Control
- MDS (Motion Detection Sensor) Indirect/Direct Control (for supported indoor units, accessory may be required).
- Long Reach Function (for supported indoor unit models)
- Automatic air volume enable and status viewing (for supported indoor unit models).

Specifications

- Compatible with DVM S Systems (AM*****AA, MCM-D211UN), DVM Chiller FCU Kits (MIM-F00N), single zone high-wall RAC systems (AR*****NCV)*, multi-zone FJM indoor units (AJ0***N*****AA)*, and single zone CAC indoor units (AC0***N*****AA).
- Supports A2L leak notification for indoor units/systems with A2L leak detection.
- Group control - Can connect and control up to 16 indoor units on a single system or across multiple systems. Refer to indoor unit installation manual for wiring and connection details.
- 2 Conductor connection
- DC 12V power supplied by indoor unit (consumption: 2W)
- PLC (power line communication) is done on F3/F4 terminals.
- Can sense temperature via internal sensor, temperature sensor inside indoor unit, or use the average temperature between controller and air handler temperature sensors
- Dimensions (W X H X D): 4 3/4" X 4 3/4" X 3/4"

* RAC high-wall (AR) and FJM high-wall (AJ***DNJ) indoor units require the sub-PCB board (MIM-A00UN).

*The WindFree™ unit delivers an air current that is under 0.15 m/s while in WindFree™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers).

** Some features may not be available depending on the indoor unit model. Firmware upgrades may be required for certain features. Refer to supporting technical documents at www.SamsungHVAC.com.

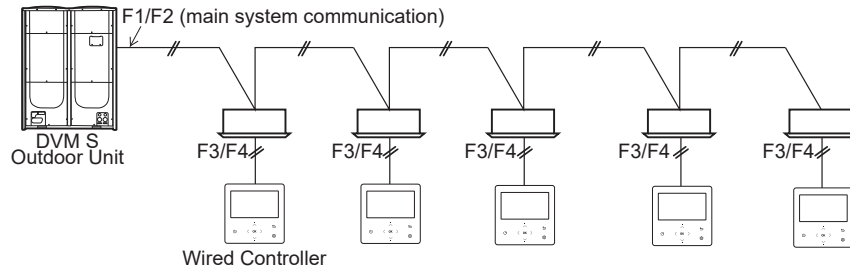
Samsung HVAC maintains a policy of ongoing development. Specifications are subject to change without notice.

Version: 02262026

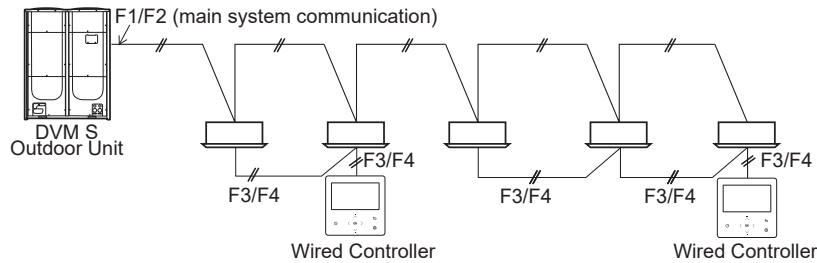
www.SamsungHVAC.com

SUBMITTAL MWR-WG01UN
Samsung Standard Wired Controller
Common Controller Configurations/Options

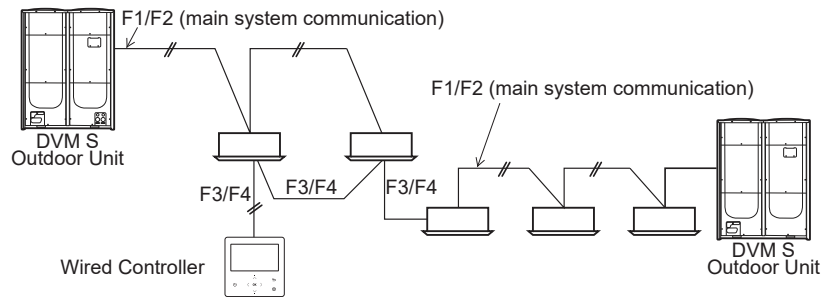
Individual control - 1 indoor unit with 1 wired control



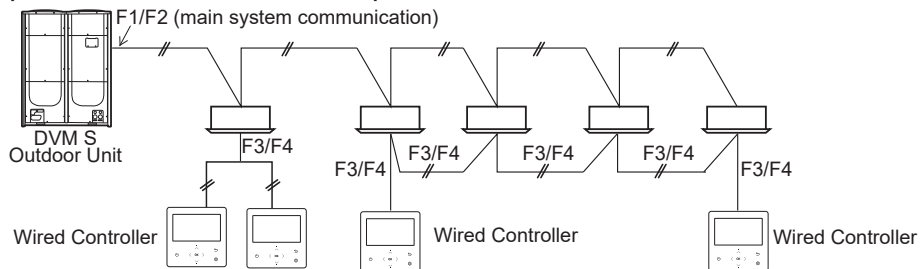
Group control - up to 16 indoor units on 1 wired controller



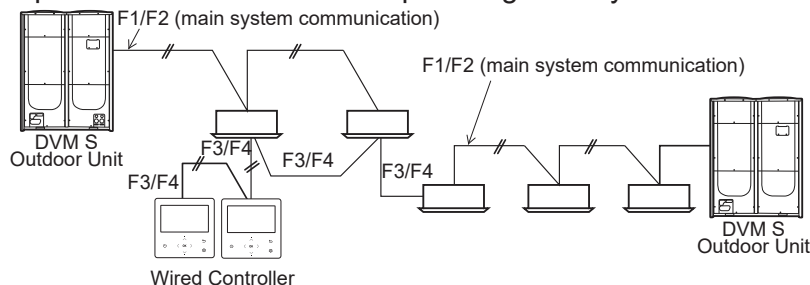
Group control - up to 16 indoor units on 1 wired controller on multiple refrigerant systems



Group control - control 1 or multiple indoor units with 2 wired controllers



Group control - up to 16 indoor units on multiple refrigerant systems with 2 wired controllers



Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.
The diagrams on this page are for reference only. Refer to installation manual for wiring and installation instructions. Other configurations may be possible.

For Samsung DVM S and DVM ECO Systems

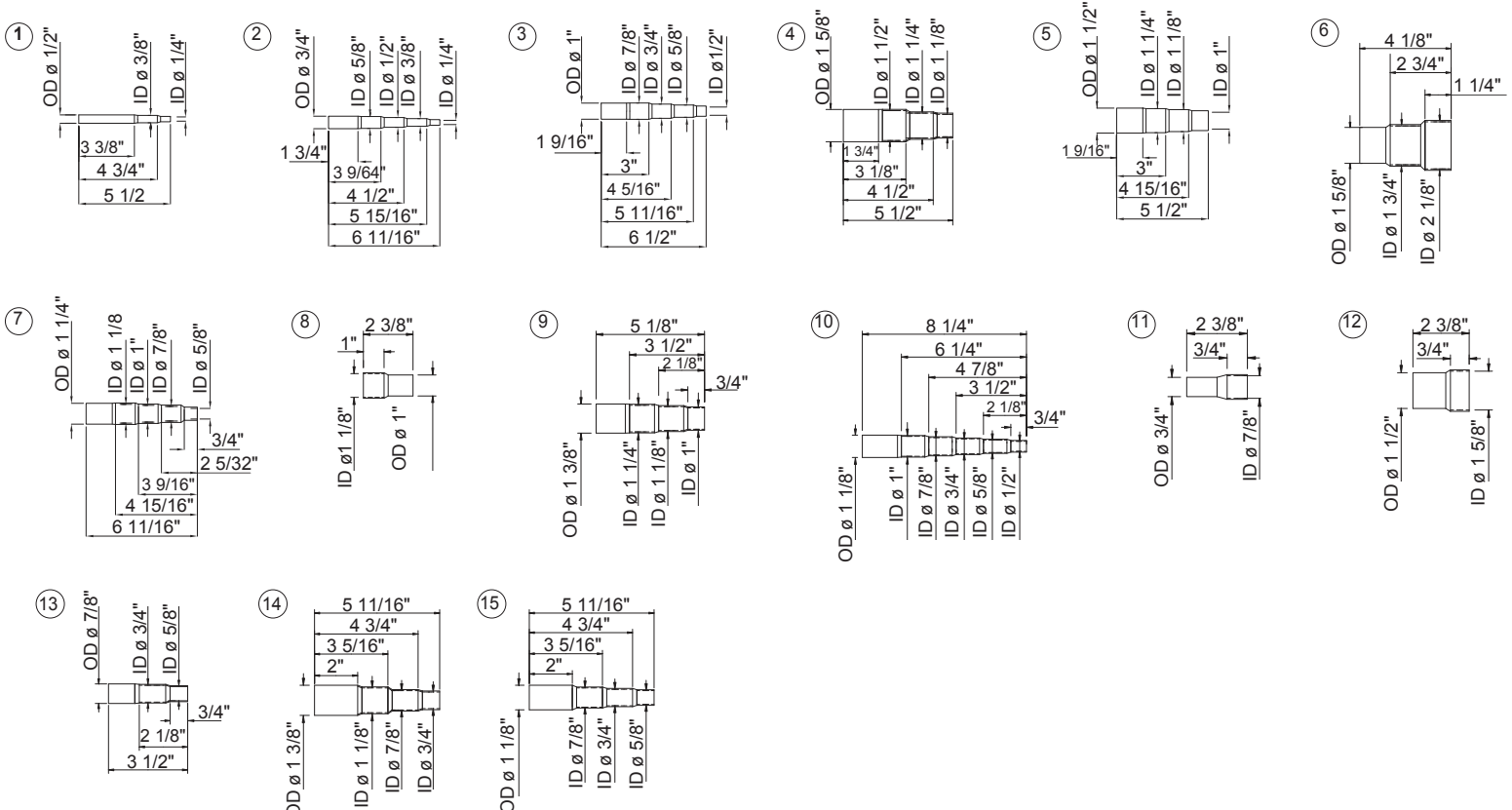
Job Name Rehabilitate Bathhouses - Maurice
Purchaser POWERS OF ARKANSAS INC. (SR)
Submitted to IMEG
Unit Designation _____

Location _____
Engineer IMEG
Reference ☐ Approval ☒ Construction ☐
Schedule # _____

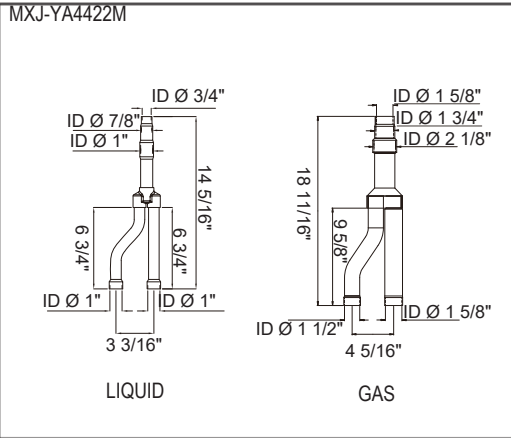
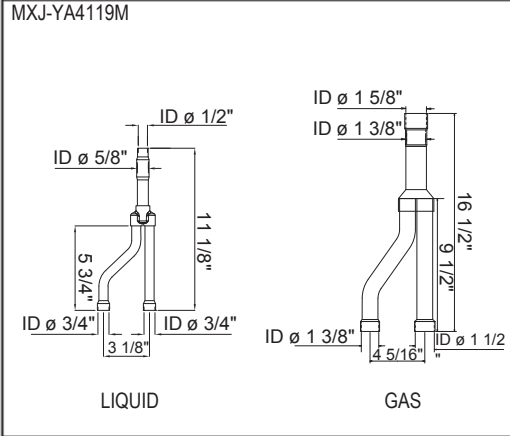
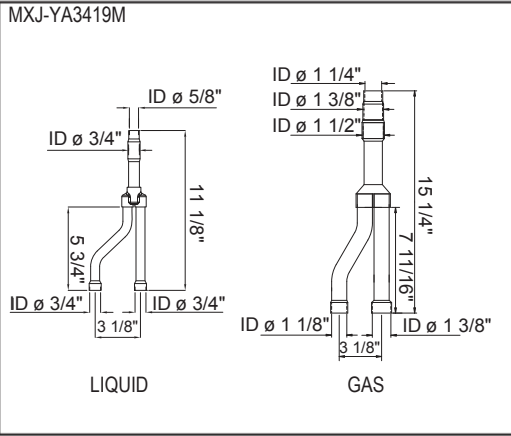
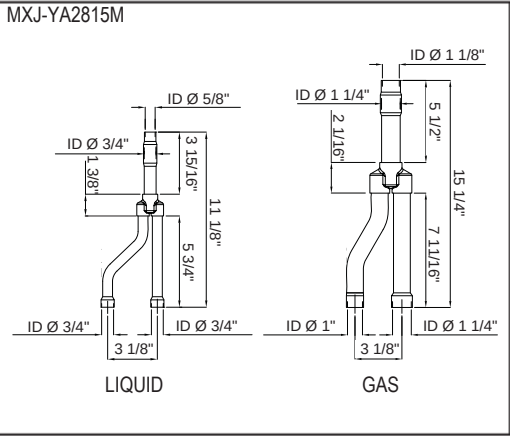
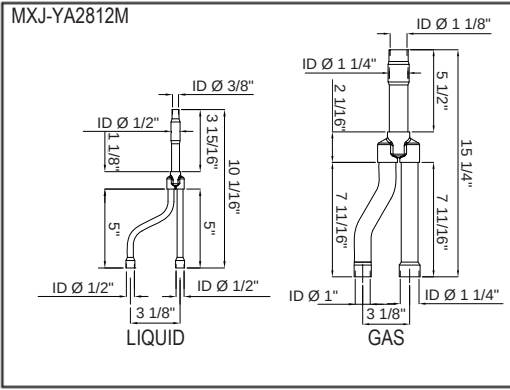
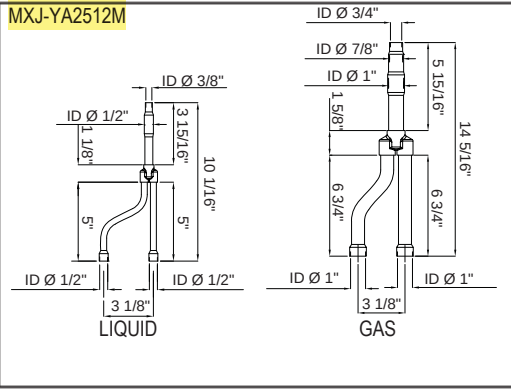
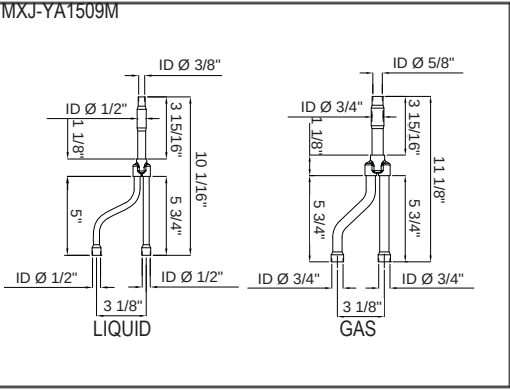
- Required component for Samsung DVM S and DVM Eco systems (AM***X***/AA) with multiple evaporators and/or Mode Change Units (MCU)
- Constructed of brazed copper or brass and copper
- Indoor unit Y-joint models include both liquid and suction fittings, insulation, and ties to secure insulation
- Heat recovery (HR) Y-joint models are required for branching the hot gas pipe throughout heat recovery systems (HR systems only)
- Included insulation shall be polystyrene certified to UL94 V0, 5/8" wall thickness
- Inlet pipe shall be adjustable to facilitate different pipe sizes without having to braze additional fittings
- Each model shall include adjustable reducers as noted in the table below



Project Qty.	Model	Total Capacity (C)	Application	Included Reducers	
☐		MXJ-YA1500M	76,000 Btu/h and less	HR high pressure gas	none
☐		MXJ-YA1509M	51,000 Btu/h and less	Indoor unit Y-joint	① X 2, ② X 2
☐		MXJ-YA2500M	76,000 Btu/h ≤ C ≤ 240,000 Btu/h	HR high pressure gas	⑬ x 2, ⑧ x 1
☒	3	MXJ-YA2512M	51,000 Btu/h ≤ C ≤ 136,000 Btu/h	Indoor unit Y-joint	① X 2, ③ X 2, ⑧ X 2
☐		MXJ-YA2812M	136,000 Btu/h ≤ C ≤ 154,000 Btu/h	Indoor unit Y-joint	① X 2, ③ X 1, ⑦ X 1
☐		MXJ-YA2815M	154,000 Btu/h ≤ C ≤ 240,000 Btu/h	Indoor unit Y-joint	② X 2, ③ X 1, ⑦ X 1
☐		MXJ-YA3100M	240,000 Btu/h ≤ C ≤ 461,000 Btu/h	HR high pressure gas	⑭ x 1, ⑮ x 1
☐		MXJ-YA3419M	240,000 Btu/h ≤ C ≤ 336,000 Btu/h	Indoor unit Y-joint	② X 2, ⑨ x 1, ⑩ x 1, ⑪ x 2, ⑫ x 1
☐		MXJ-YA4119M	336,000 Btu/h ≤ C ≤ 461,000 Btu/h	Indoor unit Y-joint	② x 2, ③ x 1, ⑤ x 1, ⑨ x 1, ⑪ x 2, ⑫ x 1
☐		MXJ-YA3800M	Over 461,000 Btu/h	HR high pressure gas	⑭ x 2
☐		MXJ-YA4422M	Over 461,000 Btu/h	Indoor unit Y-joint	① X 1, ③ x 3, ④ x 1, ⑤ x 1, ⑥ x 1



LIQUID / GAS Y-JOINT FITTINGS



Job Name Rehabilitate Bathhouses - Maurice

Purchaser POWERS OF ARKANSAS INC. (SR)

Submitted to IMEG

Unit Designation HP-1M

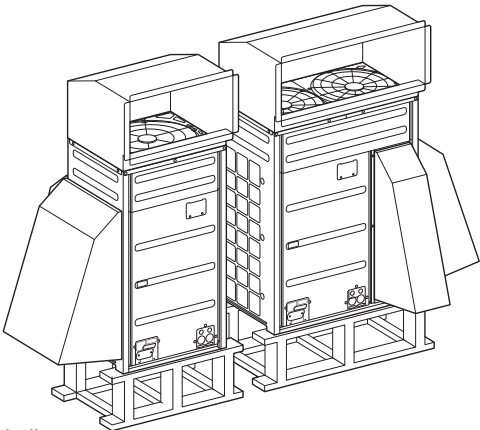
Location _____

Engineer IMEG

Reference ☐ Approval ☒ Construction ☐

Schedule # _____

Required	Model Number
1	WHG-SL-B (left side wind/hail guard, small/large chassis)
1	WHG-SR-B (right side wind/hail guard, small/large chassis)
	WHG-R1-B (back wind/hail guard, small/large chassis)
1	WHG-R2-B (back wind/hail guard, medium chassis)
	WHG-T1-B (top guard, small chassis)
1	WHG-T2-B (top guard, medium chassis)
	WHG-T3-B (top guard, large chassis)
1	WHG-F1-B (front guard, medium chassis)



- Description**
- Wind/hail guard for Samsung DVM S2 Series outdoor units.
 - Front, side and rear guards are designed to protect outdoor unit coil surfaces from high winds and hail.
 - Top guards are designed to divert condensing unit discharge air and/or protect the outdoor unit from hail, snow accumulation, and debris.
 - Construction: 20-gauge, galvanized steel
 - Polyester Super Durable powder coating (RAL7044 SILK GREY)
 - When ordering side guards (WHG-SL-B, WHG-SR-B), if left and right are needed they must be ordered and purchased separately.
 - Made in USA

Outdoor unit compatibility

Unit Model Number	Wind/Hail Guard Type							
	Side		Rear		Top			Front
	WHG-SL-B	WHG-SR-B	WHG-R1-B	WHG-R2-B	WHG-T1-B	WHG-T2-B	WHG-T3-B	WHG-F1-B
AM072BXVG**/AA	X	X	X		X			
AM096BXVG**/AA	X	X		X		X		X
AM120BXVG**/AA	X	X		X		X		X
AM144BXVG**/AA	X	X		X		X		X
AM168BXVG**/AA	X	X		X		X		X
AM192BXVG**/AA	X	X	X				X	
AM216BXVG**/AA	X	X	X				X	
AM240BXVG**/AA	X	X	X				X	
AM072DXVGQ*/AA	X	X	X		X			
AM096DXVGQ*/AA	X	X		X		X		X
AM120DXVGQ*/AA	X	X		X		X		X
AM144DXVGQ*/AA	X	X		X		X		X
AM168DXVGQ*/AA	X	X		X		X		X
AM192DXVGQ*/AA	X	X	X				X	
AM216DXVGQ*/AA	X	X	X				X	
AM240DXVGQ*/AA	X	X	X				X	
AM072BXVT**/AA	X	X		X		X		X
AM096BXVT**/AA	X	X		X		X		X
AM120BXVT**/AA	X	X		X		X		X

- Notes**
- The outdoor unit must install 18" minimum above the ground or 18" minimum above anticipated snowfall depth when using WHG-SL-B, WHG-SR-B, WHG-R1-B, WHG-R2-B, and WHG-F1-B.
 - Clearance around the outdoor unit must be at least 18" greater than standard clearances ("unrestricted" wall height clearances in outdoor unit installation manual) when using WHG-SL-B, WHG-SR-B, WHG-R1-B, WHG-R2-B, WHG-R3-B, and WHG-F1-B.
 - When using the top wind/hail guards (WHG-T1-B, WHG-T2-B,WHG-T3-B) ensure that prevailing winds will not blow into the guard. Prolonged exposure to strong winds blowing into the guard can decrease performance and cause motor failure.
 - All wind/hail guards ship fully assembled and include mounting hardware.
 - Modular systems (2 or 3 outdoor units) only require one left guard and one right guard when modules are installed at the minimum distance from each other as noted in the outdoor unit installation manual.
 - WHG-T1-B, WHG-T2-B, and WHG-T3-B can install forward or backward discharging air to the front or the back of the outdoor unit.

Wind/Hail Guards for Samsung DVM S2 Outdoor Units

Weight and Required Components Per System

Weight

Model Number	Weight (lbs.)
WHG-SL-B (left side wind/hail guard, small/large chassis)	26
WHG-SR-B (right side wind/hail guard, small/large chassis)	27
WHG-R1-B (back wind/hail guard, small/large chassis)	30
WHG-R2-B (back wind/hail guard, medium chassis)	36
WHG-T1-B (top wind/hail guard, small chassis)	46
WHG-T2-B (top wind/hail guard, medium chassis)	54
WHG-T3-B (top wind/hail guard, large chassis)	82
WHG-F1-B (front wind/hail guard, medium chassis)	20

Components required

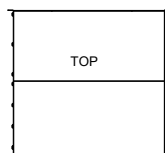
	System model number	Capacity (tons)	Side wind/hail guard		Back wind/hail guard		Top guard			Front guard
			WHG-SL-B	WHG-SR-B	WHG-R1-B	WHG-R2-B	WHG-T1-B	WHG-T2-B	WHG-T3-B	WHG-F1-B
DVM S2	AM072BXVG**/AA	6	1	1	1		1			
	AM096BXVG**/AA	8	1	1		1		1		1
	AM120BXVG**/AA	10	1	1		1		1		1
	AM144BXVG**/AA	12	1	1		1		1		1
	AM168BXVG**/AA	14	1	1		1		1		1
	AM192BXVG**/AA	16	1	1	2				1	
	AM216BXVG**/AA	18	1	1	2				1	
	AM240BXVG**/AA	20	1	1	2				1	
	AM264BXVG**/AA	22	1 (2)	1 (2)		2		2		2
	AM288BXVG**/AA	24	1 (2)	1 (2)	2	1		1	1	1
	AM312BXVG**/AA	26	1 (2)	1 (2)	2	1		1	1	1
	AM336BXVG**/AA	28	1 (2)	1 (2)	2	1		1	1	1
	AM360BXVG**/AA	30	1 (2)	1 (2)	2	1		1	1	1
	AM384BXVG**/AA	32	1 (2)	1 (2)	4				2	
	AM408BXVG**/AA	34	1 (2)	1 (2)	4				2	
	AM432BXVG**/AA	36	1 (2)	1 (2)	4				2	
	AM432BXVG**1AA	36	1 (3)	1 (3)	2	2		2	1	2
	AM456BXVG**/AA	38	1 (3)	1 (3)	2	2		2	1	2
	AM480BXVG**/AA	40	1 (3)	1 (3)	2	2		2	1	2
	AM072DXVGQ*/AA	6	1	1	1		1			
	AM096DXVGQ*/AA	8	1	1		1		1		1
	AM120DXVGQ*/AA	10	1	1		1		1		1
	AM144DXVGQ*/AA	12	1	1		1		1		1
	AM168DXVGQ*/AA	14	1	1		1		1		1
	AM192DXVGQ*/AA	16	1	1	2				1	
	AM216DXVGQ*/AA	18	1	1	2				1	
	AM240DXVGQ*/AA	20	1	1	2				1	
	AM264DXVGQ*/AA	22	1 (2)	1 (2)		2		2		2
	AM288DXVGQ*/AA	24	1 (2)	1 (2)	2	1		1	1	1
	AM312DXVGQ*/AA	26	1 (2)	1 (2)	2	1		1	1	1
	AM336DXVGQ*/AA	28	1 (2)	1 (2)	2	1		1	1	1
	AM360DXVGQ*/AA	30	1 (2)	1 (2)	2	1		1	1	1
	AM384DXVGQ*/AA	32	1 (2)	1 (2)	4				2	
	AM408DXVGQ*/AA	34	1 (2)	1 (2)	4				2	
	AM432DXVGQ*/AA	36	1 (3)	1 (3)	2	2		2	1	2
	AM456DXVGQ*/AA	38	1 (3)	1 (3)	2	2		2	1	2
	AM480DXVGQ*/AA	40	1 (3)	1 (3)	2	2		2	1	2
DVM S2 Max Heat	AM072BXVT**/AA	6	1	1		1		1		1
	AM096BXVT**/AA	8	1	1		1		1		1
	AM120BXVT**/AA	10	1	1		1		1		1
	AM144BXVT**/AA	12	1 (2)	1 (2)		2		2		2
	AM168BXVT**/AA	14	1 (2)	1 (2)		2		2		2
	AM192BXVT**/AA	16	1 (2)	1 (2)		2		2		2
	AM192BXVT**1AA	16	1 (2)	1 (2)		2		2		2
	AM216BXVT**/AA	18	1 (2)	1 (2)		2		2		2
	AM216BXVT**1AA	18	1 (3)	1 (3)		3		3		3
	AM240BXVT**/AA	20	1 (2)	1 (2)		2		2		2
	AM240BXVT**1AA	20	1 (3)	1 (3)		3		3		3
	AM264BXVT**/AA	22	1 (3)	1 (3)		3		3		3
	AM288BXVT**/AA	24	1 (3)	1 (3)		3		3		3
	AM312BXVT**/AA	26	1 (3)	1 (3)		3		3		3
	AM336BXVT**/AA	28	1 (3)	1 (3)		3		3		3
	AM360BXVT**/AA	30	1 (3)	1 (3)		3		3		3

1 When using side wind/hail guards, if the units are installed at the minimum distance from each other as noted in the outdoor unit installation manual, only 1 X left guard and 1 X right guard is required. WHG-SL-B and WHG-SR-B data noted above show required quantities when modular system outdoor units are installed close to each other and required quantity when they are spread further apart (in parenthesis).

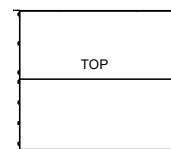
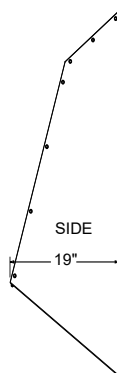
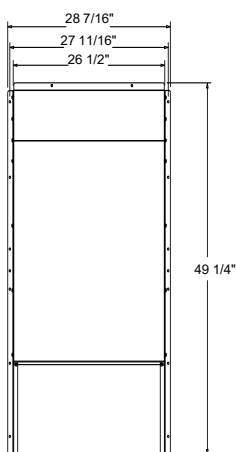
Note: Side guards, back guards, and top guards can be used independently (example: WHG-T2-B can be installed without WHG-SL-B and WHG-SR-B, WHG-SL-B and WHG-SR-B can be used without WHG-R1-B).

Wind/Hail Guards for Samsung DVM S2 Outdoor Units

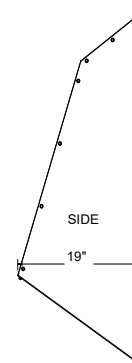
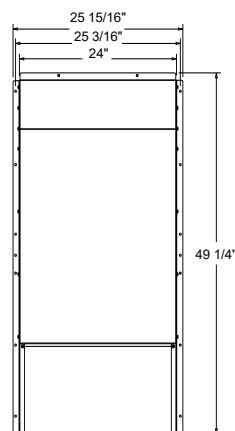
Dimensional Data



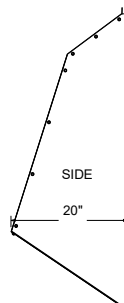
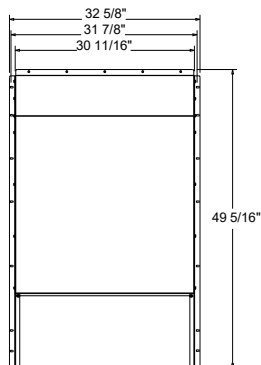
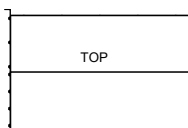
Right Guard (WHG-SR-B)



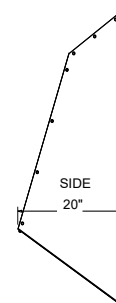
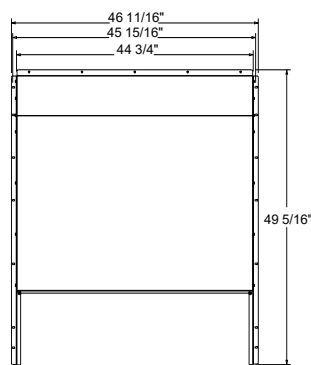
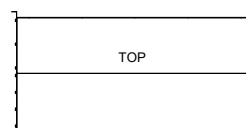
Left Guard (WHG-SL-B)



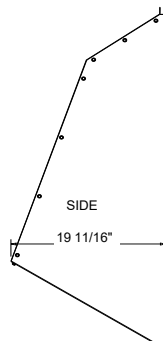
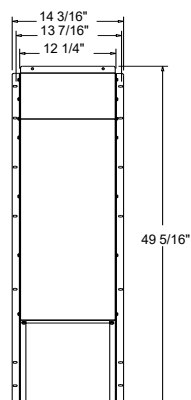
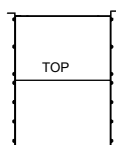
Rear Guard (small/large chassis, WHG-R1-B)



Rear Guard (medium chassis, WHG-R2-B)



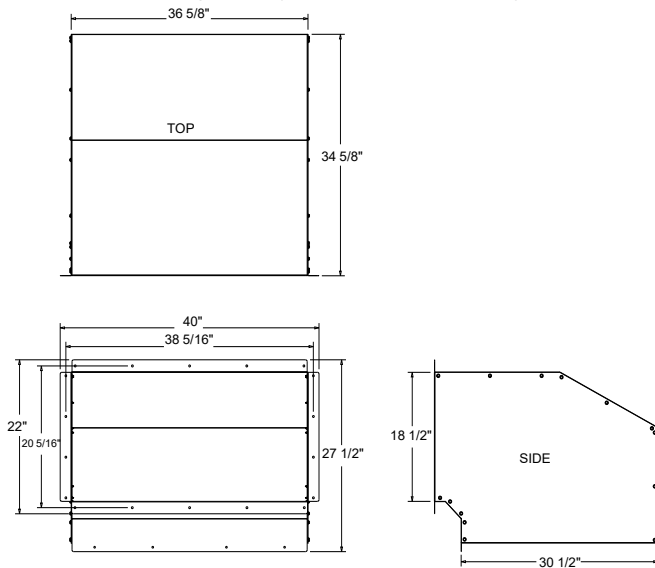
Front Guard (medium chassis, WHG-F1-B)



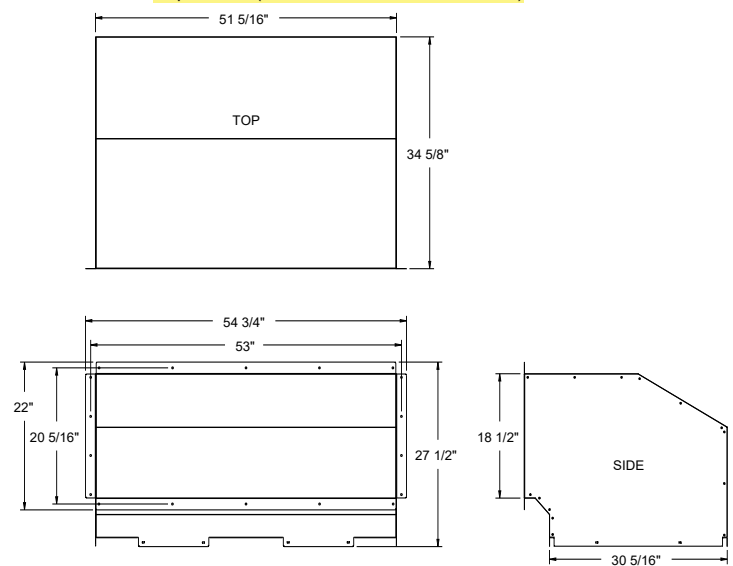
Wind/Hail Guards for Samsung DVM S2 Outdoor Units

Dimensional Data

Top Guard (small chassis, WHG-T1-B)



Top Guard (Medium chassis, WHG-T2-B)



Top Guard (Large chassis, WHG-T3-B)

