SAMSUNG

SUBMITTAL AM096FNHDCH/AA

Samsung DVM S Series, HSP (High Static) Ducted Unit

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

Specifications

Performance	Nominal Capacity [1]	Cooling (Btu/h)	96,000 (74,000 SH)
		Heating (Btu/h)	108,000
	Condensate	Pints/Hour	24.3 (on high fan)
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Nominal Running Current (A)		5.9
Fan	Type		Sirocco (2)
	Motor	Type	BLDC (1)
		Output (W)	400
Airflow	CFM (UL)	H/M/L	2,543 / 2,296 / 2,048
	Total CFM Range [2]		1,894 - 2,645
External Static Pressure	Standard	"WC	0.59
	Min. / Max.	"WC	0.20 - 1.10
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
Piping Connections	Liquid (flare)	Inches	3/8
	Suction (flare)	Inches	7/8
	Drain	Inches	OD 1 1/4, ID 1
Unit Dimensions	W X H X D	Inches	48 13/16 X 18 1/2 X 40 15/16
	Weight	lbs.	196
	Duct Connections (inches)	Supply	46 3/4 X 15 5/32
		Return	46 3/4 X 15 1/16
Sound Level	H / M / L	dB	48 / 46 / 43
Accessories	Filter Box		☐ FB-H7696
	Condensate Pump		☐ MDP-N047SNC1D
	External Contact Control		☐ MIM-B14
	Wireless Receiver Kit		☐ MRK-A10N
	External Temperature Sensor		☐ MRW-TA
	CN83 Pigtail (for 12VDC VENT output)		☐ DB39-01263A
Safety Certifications			ETL & ETLc

- Compatible with Samsung DVM S, DVM S Water, and DVM Eco systems (AM*********/AA).
- High-voltage terminal block temperature sensor to disable unit in the event overheating of power connection.
- Discharge air temperature sensor with target discharge temperature control capability

Construction
The unit shall be constructed of insulated, galvanized steel

Heat Exchanger
The heat exchanger shall be mechanically bonded fin to copper tube

Indoor Fan
Indoor fan is a centrifugal type with a single fan motor

Three fan speed settings and auto setting

Fan output can be configured during commissioning for various external static pressure ranges

Controls
The unit shall be operated via a wireless or wired remote control with DDC type signal

The unit shall integrate with the Samsung NASA Controls Network Solution

Controls shall integrate with a BMS system

Control wiring shall be 2 X 16 AWG shielded wire

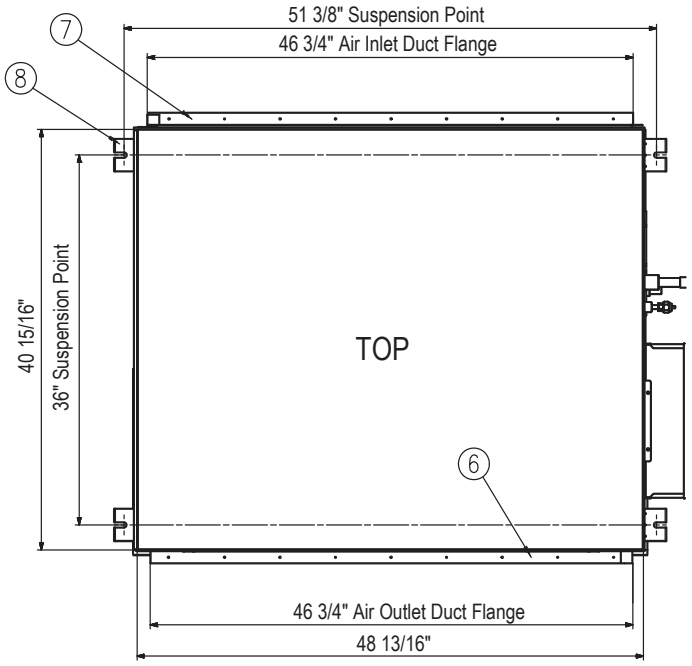
Air Filtration

Pressure drop across the filter must be factored into the total ESP.

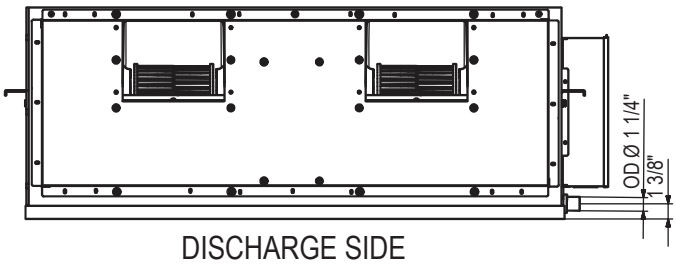
[1] Nominal cooling capacities are based on: Indoor temperature: 80 ºF DB, 67ºF WB. Outdoor temperature: 95ºF DB, 75ºF WB.
Nominal heating capacities are based on: Indoor temperature: 70 ºF DB, 60ºF WB. Outdoor temperature: 47ºF DB, 43ºF WB.

[2] Refer to technical data book for fan performance details and settings

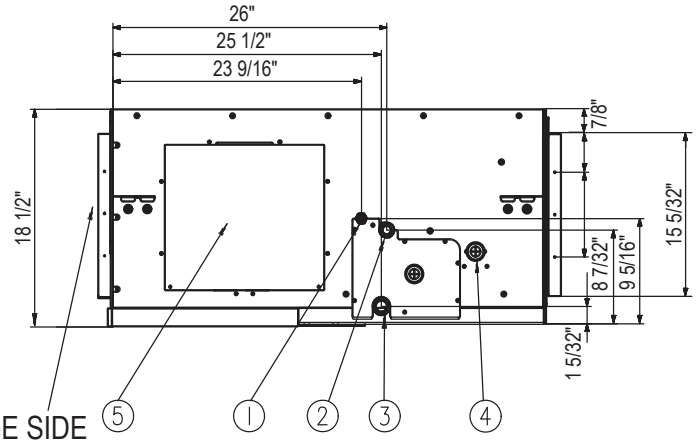
Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.



No.	Name	Description
①	Liquid pipe connection	Ø3/8" flare
②	Gas pipe connection	Ø7/8" braze
③	Drain pipe connection	OD Ø1 1/4", ID 1"
④	Drain connection for optional drain pump	OD Ø1 1/4", ID 1"
⑤	Control box, power/com. connection	-
⑥	Supply air flange	-
⑦	Return air flange	-
⑧	Support hook	3/8"

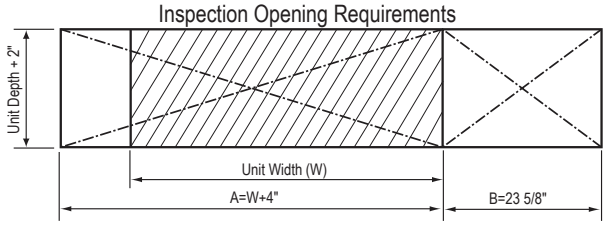


DISCHARGE SIDE



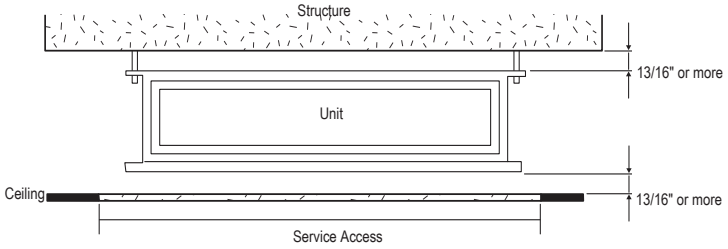
DISCHARGE SIDE

Inspection Opening Requirements

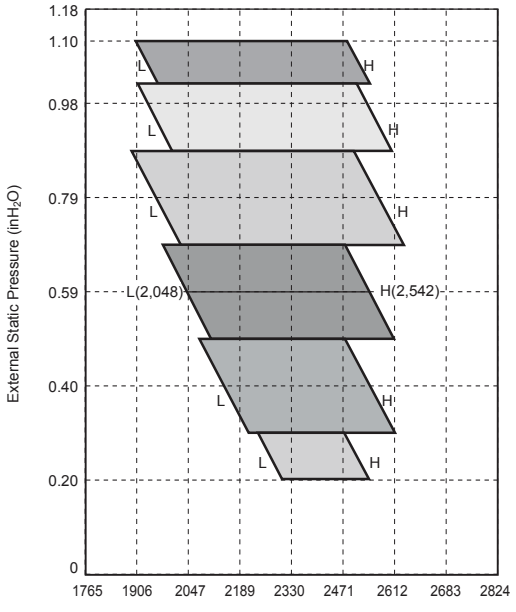


In applications where there is not a tile ceiling, an inspection hole is required.
If height between ceiling and structure is 3.25' or more, inspection opening "B" is recommended.
If height between ceiling and structure is less than 3.25', inspection opening "A" and "B" is recommended.
(verify state and local codes).

Unit Clearance From Structure



Fan Performance Data



Air Flow Rate: CFM
(L = Low, H = High)