

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

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

Specifications

Performance	Nominal Capacity ¹	Cooling (Btu/h)	18,000
		Heating (Btu/h)	20,000
Power	Voltage (ø / V / Hz)		1 / 208-230 / 60
	Nominal Running Current (A)		0.50
	MCA		2.14
	MOP		15
Fan	Type		Sirocco (2)
	Motor	Type	BLDC (1)
		Output (W)	153
Airflow	CFM (UL)	H/M/L	671 / 565 / 459
	Total CFM Range ²		459 - 1170
External Static Pressure	Standard	"WC	0.04
	Min. / Max.	"WC	0 - 0.79
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
Piping Connections	Liquid (flare)	Inches	1/4
	Suction (flare)	Inches	1/2
	Drain	Inches	1 1/16" ID for 3/4" PVC
Unit Dimensions	W X H X D	Inches	47 1/4 X 9 13/16 X 27 9/16
	Weight	lbs.	77.2
	Duct Connections (inches)	Supply	45 15/16 X 8 11/16
		Return	45 15/16 X 8 11/16
Sound Level	H / M / L	dB(A)	33 / 29 / 26
Accessories	Filter Box		☐ FB-DS2
	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 (UL 1995)



- Compatible with Samsung DVM S, DVM S Water, and DVM S Eco systems (AM*****AA).
- Horizontal discharge airflow
- The indoor unit shall have a removable EEPROM that stores system programming information, unit name, and other data
- All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- The indoor unit shall have static pressure scanning for simple setup and optimized comfort settings for the occupant.
- The indoor unit shall have smart-tuning function that can provide optimized comfort by allowing the occupant to offset the fan CFM curve with a wired remote controller (MWR-SH10N, MWR-SH11UN, MWR-WE13*N, MWR-WG00J*N) to increase or decrease airflow.
- The indoor unit shall allow service access from four sides (top, bottom, left, right).
- The indoor unit shall have an internal condensate pump as standard with float switch (maximum 29" lift from bottom of unit).
- 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

Controls shall integrate with a BMS system

Control wiring shall be 2 X 16 AWG shielded wire

Air Filtration

No air filtration provided

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

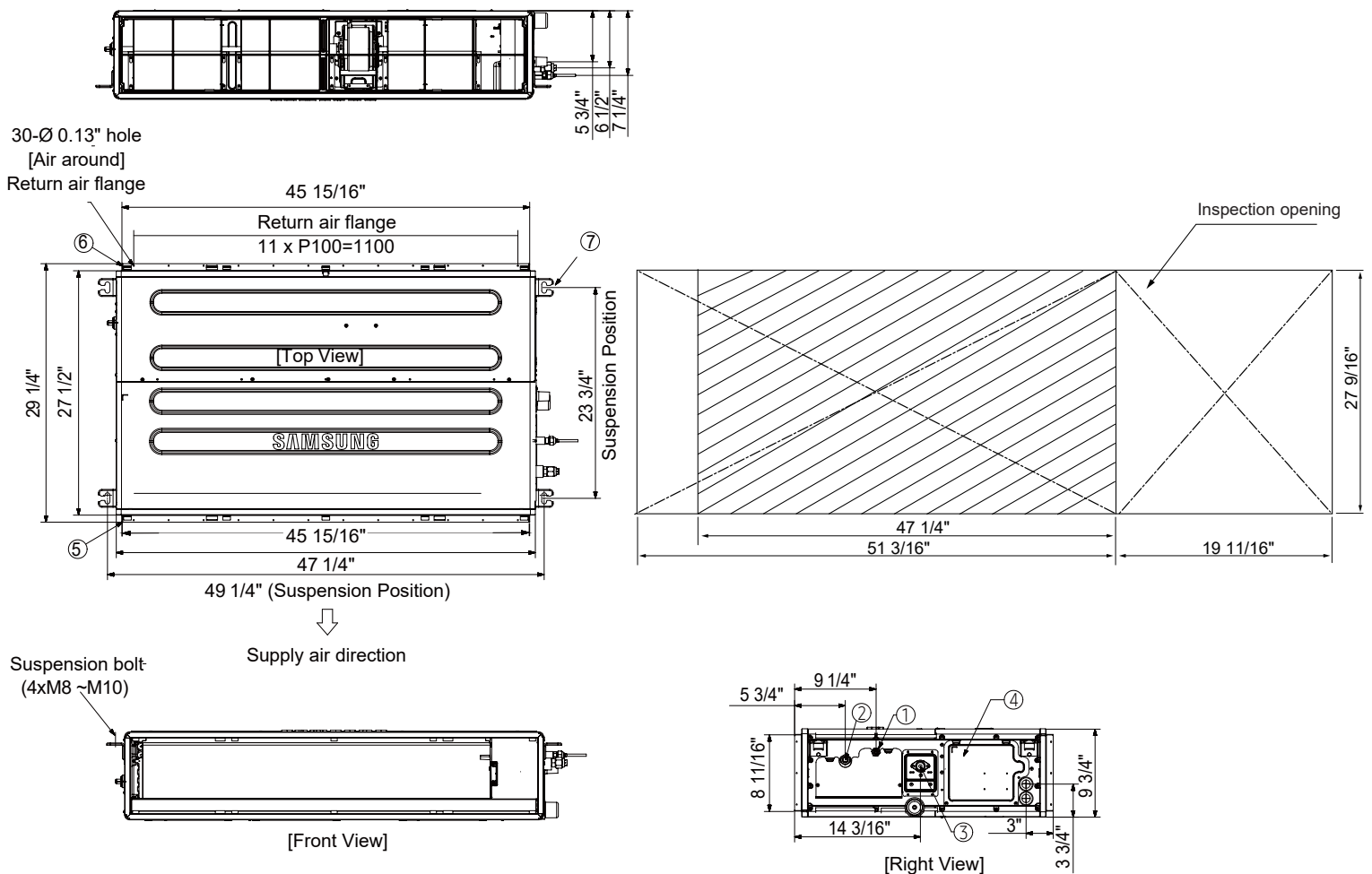
¹ Nominal cooling capacities are based on: Indoor temperature: 80 °F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB

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

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

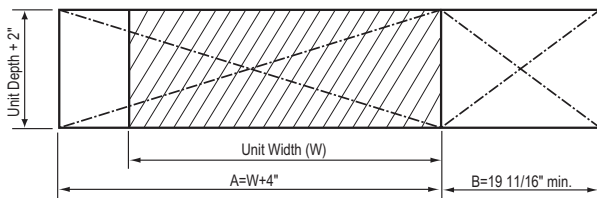
Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

Samsung DVM S Series, Duct S, Ducted
Unit AM018ANMDCH/AA Dimensional Drawing



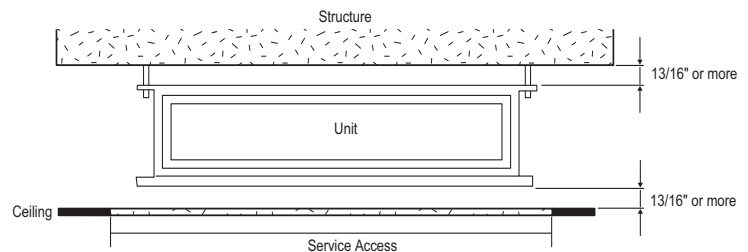
NO	Name	Description
1	Liquid pipe connection	Ø1/4"
2	Gas pipe connection	Ø1/2"
3	Drain pipe connection	1 1/16" ID for 3/4" PVC
4	Power supply connection	-
5	Air discharge flange	-
6	Air filter	-
7	Suspension point	5/16" ~ 3/8"

Inspection Opening Requirements



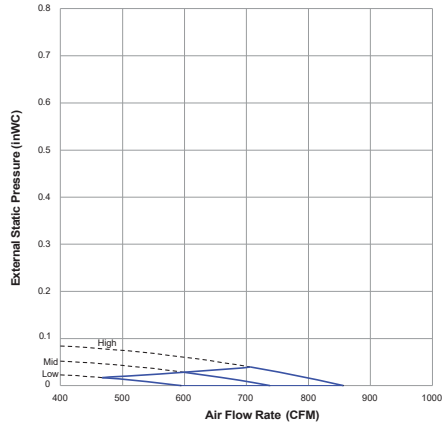
In applications where there is not a tile ceiling, an inspection hole is required. If height between ceiling and structure is 1.64' or more, inspection opening "B" is recommended. If height between ceiling and structure is less than 1.64', inspection opening "A" and "B" is recommended. (verify state and local codes).

Unit Clearance From Structure

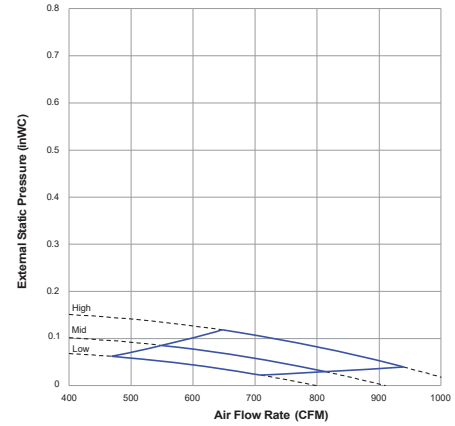


Samsung DVM S Series, Duct S, Ducted Unit Fan Characteristics (P-Q Curve)

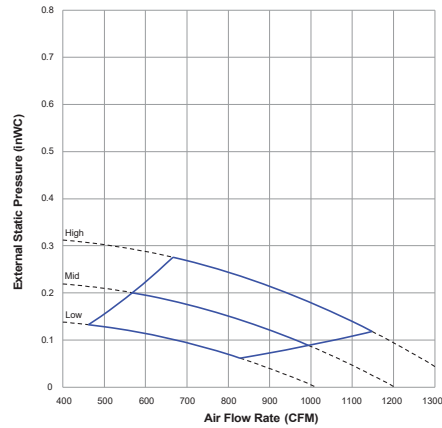
①	External Static Pressure (inWC)	Option Code
	0.12 < SP ≤ 0.20	010054-1E5084-203535-331110



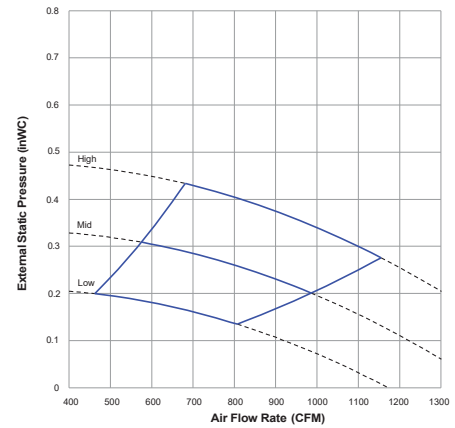
②	External Static Pressure (inWC)	Option Code
	0.20 < SP ≤ 0.30	010054-1E50C7-203535-331110



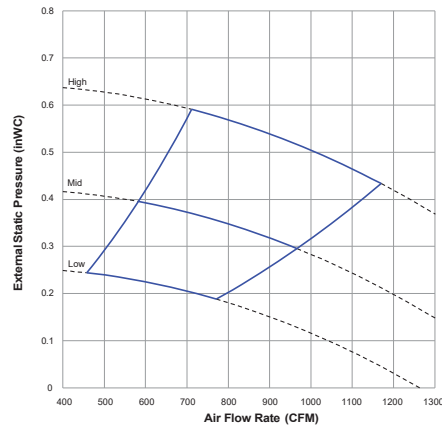
③	External Static Pressure (inWC)	Option Code
	0.30 < SP ≤ 0.39	010054-1E547B-203535-331110



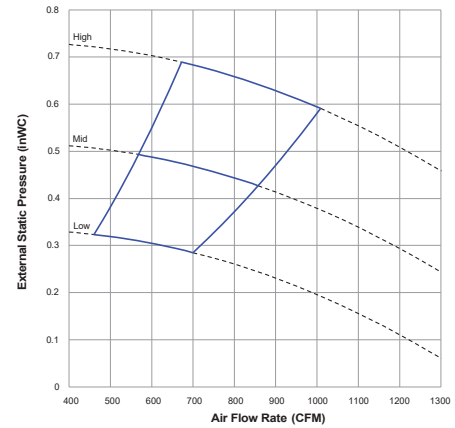
④	External Static Pressure (inWC)	Option Code
	0.39 < SP ≤ 0.49	010054-1E5900-203535-331110



⑤	External Static Pressure (inWC)	Option Code
	0.49 < SP ≤ 0.59	010054-1E5983-203535-331110



⑥	External Static Pressure (inWC)	Option Code
	0.59 < SP ≤ 0.69	010054-1E59C8-203535-331110



⑦	External Static Pressure (inWC)	Option Code
	0.69 < SP ≤ 0.79	010054-1E5D0B-203535-331110

