SAMSUNG

SUBMITTAL MCU-S6NEK3N

Samsung DVM S Series, Mode Control Unit (MCU)

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

Specifications

Power	Voltage	(ø/V/Hz)	1 / 208-230 / 60
	Max Current	A	1.6
	Rated Controller Current	A	0.3
	Minimum Circuit Ampacity	A	2
	Max. Breaker	MOP (A)	15
Capacity	Maximum Btu/h	MCU total[1]	76,000
		Each Port[1]	≤ 19,000[1]
	Number of Ports		6
	Quantity of Connectable Indoor Units[2]		1 - 18
Piping Connections (inches)	Inlet Pipes From ODU / Outlet Pipes To Other MCU's	Liquid (braze)	3/8
		Suction (braze)	3/4
		HP Gas (braze)	5/8
	To Indoor Units	Liquid (braze)	1/4 X 6
		Suction (braze)	1/2 X 6
Sound Level	Standard Operation	High dB (A)	36
	Mode Switching	High dB (A)	50
Unit Dimensions	W X H X D	Inches	28 11/16 X 7 13/16 X 18 7/16
	Weight	lbs.	53.58
Safety Certifications			ETL (UL 1995)

[1] If connecting an indoor unit > 19,000 Btu/h and ≤ 48,000 Btu/h, 2 consecutive ports must be twinned using Y-Joint part numbers DB96-23143A (liquid line) and DB96-23144A (suction line). Y-Joints are purchased separately.

[2] Maximum of 3 indoor units allowed on a single port. Twinned ports cannot connect to multiple indoor units. Please use DVM Pro design software for system design.

- Compatible with Samsung DVM S Heat Recovery (AM****X***R/AA, AM****X***R2AA, AM0**NXMDCR/AA) systems only.
- Allows for simultaneous heating and cooling on a single system.
- Serial connection capability to supply refrigerant to other MCU's thus reducing Y-joint installation quantity (see example below).
- The MCU shall have pressure equalization valves (480 steps) to reduce refrigerant sounds during mode changing of connected indoor units.
- Using solenoid valves, the MCU shall control the path of refrigerant to the indoor unit(s) based on the mode of operation required.
- The unit shall contain internal subcoolers with an electronic expansion valve to maximize performance of connected units and reduce refrigerant sounds
- If connecting an indoor unit > 19,000 Btu/h and ≤ 48,000 Btu/h, 2 consecutive ports must be twinned.
- The MCU must be mounted indoors, level, with the pipes running horizontally in and out of unit.
- No drain connection required

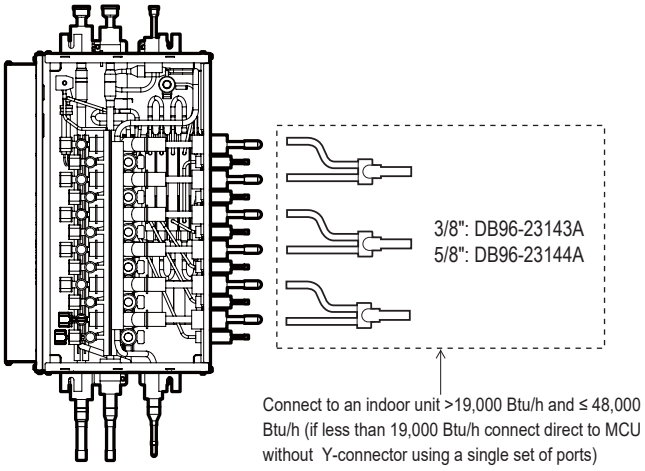
Construction

- Galvanized steel cabinet
- Most internal devices can be serviced via bottom panel. The PCB and wiring is accessible from the back.

Controls

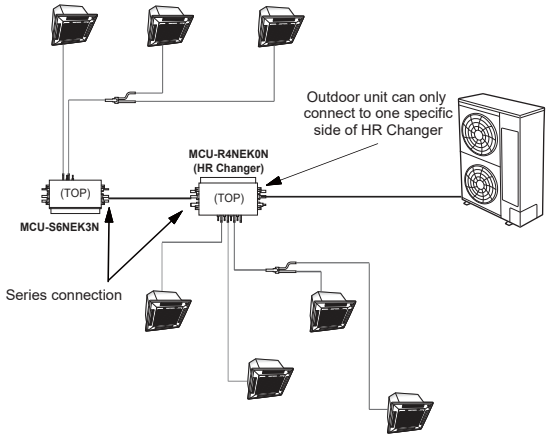
- The unit shall be operated via a DDC type signal
- Control wiring shall be 16 AWG X 2 shielded wire
- Supports auto-addressing

Accessory Y-Joint - Combining Two Ports



TOP VIEW
(PICTURED WITHOUT COVER)

Connection Example



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

SHA-DVMS-10022018

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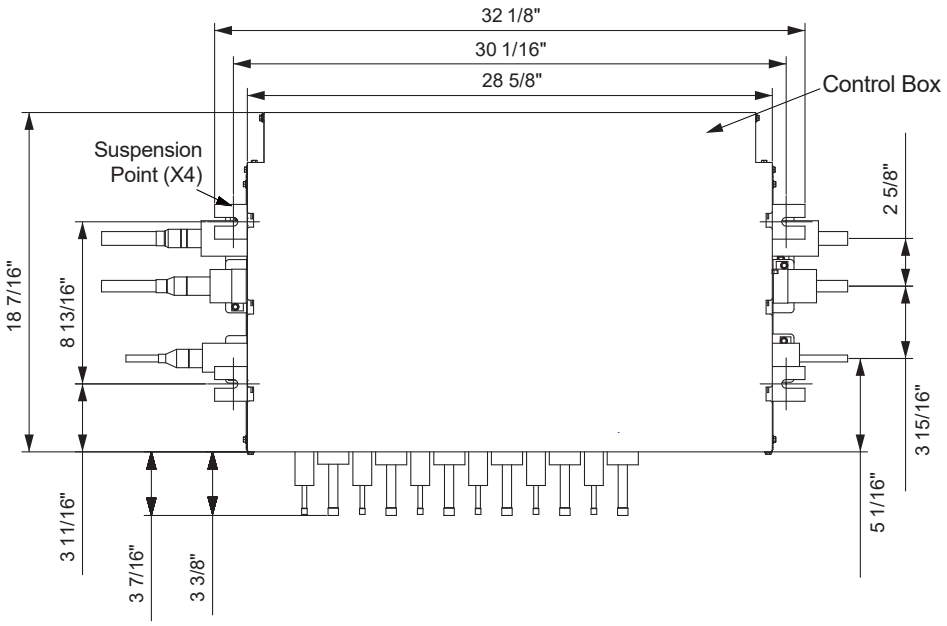
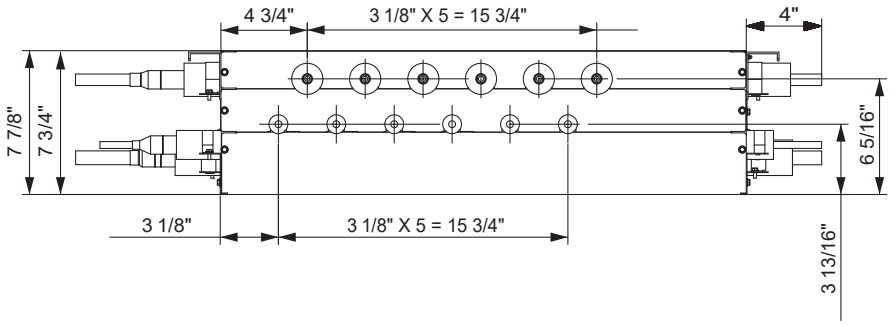
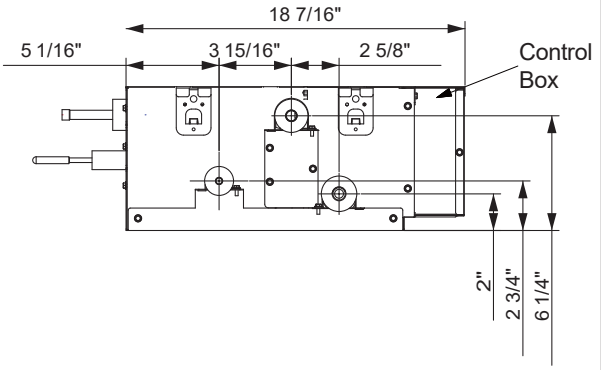
TOP



FRONT



SIDE



Recommended Installation Clearances