



MSVT Series Chilled Water Cooling with Electric Heat

Mult Position Single Piece Fan Coil/ Air Handler

Standard Features

- Pre-Painted heavy gauge galvanized steel cabinet and doors.
- High-performance constant torque blower design.
- Galvanized steel blower wheels and housings.
- Fully insulated cabinet and door with 1" R-4.5 insulation.
- Designed and pre-wired for heating operation.
- Factory or field installed electric heater sizes are 5kW, 10kW, 15kW and 20kW.
- Standard control transformer is 208/240/1/60 primary / 24/1/60/40VA.
- Secondary circuit of the transformer is grounded per UL60335-2-40 requirements. Blower motor is a 5-speed constant torque.
- Meets ASHRAE standard 193 low leak requirements.
- Primary and secondary condensate pan drain connections.
- Easy access for service and maintenance.
- Bottom return only.
- High efficiency copper tube and aluminum fin coils that are pressure tested to 500 PSI underwater. Coils are UL listed..
- For use in elevations of 10,000 ft (3,047m) or less.

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Description:

This single piece air handler provides the flexibility for installation in any upflow, downflow, or horizontal application. The versatile models may be used with or without electric heat. The direct-drive 5-speed constant torque motors provide a selection of air-flow volume to match any application. The air handler can be positioned for bottom air return in the upflow position, top air return in the downflow position, or air return through the end of the air handler in the horizontal position. These units are ETL listed. NOTE: Refer to the instructions for additional information..

Air Handler Model Specifications

Model No.	Nominal Tons	Blower Code	Electric Heater kW	Voltage/ PH/ HZ	Chilled Water Capacity	CFM	Thermost at Voltage/ PH / HZ	Max. External Duct Pressure (inwc)
MSVT18	1.5	VJ1	5, 10	208/240/1/60	26,680	600	24/1/60	0.5
MSVT24	2.0	VJ1	5, 10	208/240/1/60	22,190	800	24/1/60	0.5
MSVT25	2.0	VK1	5, 10, 15	208/240/1/60	22,190	800	24/1/60	0.5
MSVT30	2.5	VK1	5, 10, 15	208/240/1/60	22,194	800	24/1/60	0.5
MSVT36	3.0	VK1	5, 10, 15	208/240/1/60	41,540	1200	24/1/60	0.5
MSVT37	3.5	VX1	5, 10, 15, 20	208/240/1/60	41540	1200	24/1/60	0.5
MSVT42	3.5	VX1	5, 10, 15, 20	208/240/1/60	41540	1200	24/1/60	0.5
MSVT48	4.0	VX1	5, 10, 15, 20	208/240/1/60	51940	1600	24/1/60	0.5
MSVT60	5.0	VX1	5, 10, 15, 20	208/240/1/60	63750	2000	24/1/60	0.5
MSVT72	6.0	VX1	5, 10, 15, 20	208/240/1/60	78711	2400	24/1/60	0.5

Electric Heat Data

Model No.	Heater KW	Circuit	Circuit kW	Voltage	Heater Amps	Blower Amps	Circuit 1 FLA	Circuit 2 FLA	Circuit 1 MCA	Circuit 2 MCA	Unit MOP (Fuse Size)
MS**18, 24	5	1	5	208/240	20.83	1.49	22.32		27.90		30
	10	1	10	208/240	41.67	1.49	43.16		53.95		60
MS**25, 30, 36	5	1	5	208/240	20.83	1.98	22.81		28.52		30
	10	1	10	208/240	41.67	1.98	43.65		54.56		60
	15	1	5	208/240	20.83	1.98	22.81		28.52		30
	15	2	10	208/240	41.67	1.98	43.65	41.67	54.56	52.08333	60 30
MS**42, 48, 60	5	1	5	208/240	20.83	2.58	23.41		29.27		30
	10	1	10	208/240	41.67	2.58	44.25		55.31		60
	15	1	5	208/240	20.83	2.58	23.41		29.27		30
	15	2	10	208/240	41.67	2.58	44.25	41.67	55.31	52.08333	60 30
	20	1	10	208/240	41.67	2.58	44.25		55.31		60
	20	2	10	208/240	41.67	2.58	44.25	44.25	55.31	52.08333	60 60
MS**72	5	1	5	208/240	20.83	3.75	24.58		30.73		35
	10	1	10	208/240	41.67	3.75	45.42		56.77		60
	15	1	5	208/240	20.83	3.75	24.58		30.73		35
	15	2	10	208/240	41.67	3.75	45.42	41.67	56.77	52.08333	60 60
	20	1	10	208/240	41.67	3.75	45.42		56.77		60
	20	2	10	208/240	41.67	3.75	45.42	41.67	56.77	52.08333	60 60

Clearance to Combustibles

Model Number	Top	Back	Sides	Front of Furnace		Duct
				Alcove	Closet	
ELECTRIC	0"	0"	0"	30"	4"	1"

Blower Information

Model No.	Motor HP	VAC/ PH/ HZ	Blower Code	Blower Size	Blower Type
MS**18, 24	1/3	208/240/1/60	VD2	10 X 7	C.T.
MS**25	1/2		VE2	10 X 8	
MS**30, 36	1/2		VE2	10 X 8	
MS**37	1/2		VF2	13 X 9	
MS**42, 48	3/4		VF2	12 X 9	
MS**60	3/4		VF2	12 X 9	
MS**72	1.0		VV2	12 X 10	

Field Installed Accessories

Filter Base Assembly Kit:

86ET0002 – 16" x 20" x 2" Small Cabinet

86ET0001 – 20" x 20" x 2" Medium Cabinet

86ET0003 – 20" x 24" x 2" Large Cabinet

Physical Dimensions

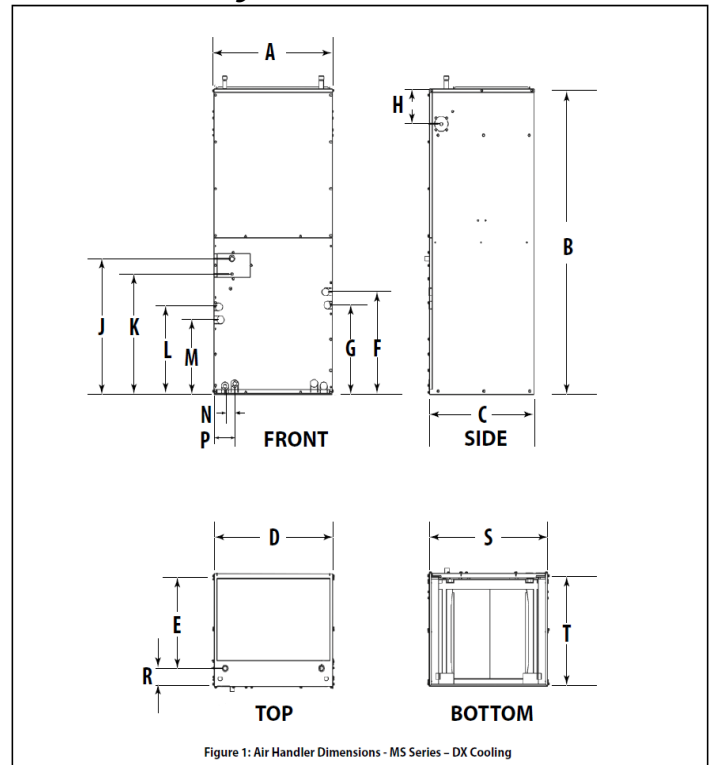


Figure 1: Air Handler Dimensions - MS Series - DX Cooling

Dimension Table

Model Number	A	B	C	D	E	F	G
MS**18, 24, OS	17.50	43.00	21.00	15.63	12.50	13.50	11.00
MS**25, 30, 36, OM	21.00	48.00	21.00	19.00	12.50	14.50	13.00
MS**37, 42, 48, 60, 72, OL	24.50	58.88	21.75	22.25	14.25	19.75	17.25

H	J	K	L	M	N	P	R	S	T
6.75	16.75	14.00	11.00	10.75	2.00	1.50	5.00	16.10	20.20
6.75	20.00	17.00	12.75	10.30	2.30	4.35	5.00	19.90	20.80
6.75	26.00	23.00	16.75	14.35	2.30	4.35	4.50	23.50	20.70

