



MSVT Series Chilled Water Cooling with Hot Water 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.
- Hydronic control board with built-in water pump cycle timer that cycles the water pump every 6 hours for 60 seconds.
- Water pump is factory installed on these units.
- Freeze protection switch is installed on these units
- Standard control transformer is 120/1/60 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 hot water 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	Voltage/ PH/ HZ	Chilled Water Capacity	CFM	Thermostat Voltage/ PH / HZ	Max. External Duct Pressure (inwc)
MSVT18	1.5	VJ1	120/1/60	26,680	600	24/1/60	0.5
MSVT24	2.0	VJ1	120/1/60	22,190	800	24/1/60	0.5
MSVT25	2.0	VK1	120/1/60	22,190	800	24/1/60	0.5
MSVT30	2.5	VK1	120/1/60	22,194	800	24/1/60	0.5
MSVT36	6.0	VK1	120/1/60	41,540	1200	24/1/60	0.5
MSVT42	3.5	VX1	120/1/60	41540	1200	24/1/60	0.5
MSVT48	4.0	VX1	120/1/60	51940	1600	24/1/60	0.5
MSVT60	5.0	VX1	120/1/60	63750	2000	24/1/60	0.5
MSVT72	6.0	VX1	120/1/60	78711	2400	24/1/60	0.5

Hot Water Heat Data

Model Number	Heating Capacities					Heating GPM	CFM	ADP INWC	ROWS	Voltage VAC/PH/Hz
	120°F	130°F	140°F	150°F	160°F					
MSVT18	27,050	32,108	37,195	42,305	47,440	4.0	700	0.23	4	120/1/60
MSVT24	31,140	36,990	42,845	48,800	54,755	4.0	900	0.35	4	120/1/60
MSVT25	31,895	37,790	42,710	49,645	55,595	4.0	900	0.29	4	120/1/60
MSVT30	37,260	44,165	51,104	58,065	65,045	4.0	1,200	0.46	4	120/1/60
MSVT36	40,195	47,660	55,150	62,670	70,220	4.0	1,400	0.60	4	120/1/60
MSVT37	48,080	57,220	66,440	75,750	85,130	7.0	1,400	0.31	4	120/1/60
MSVT42	51,490	61,310	71,230	81,250	91,340	7.0	1,600	0.39	4	120/1/60
MSVT48	54,490	64,910	75,450	86,090	96,820	7.0	1,800	0.47	4	120/1/60
MSVT60	58,380	69,590	80,930	92,390	103,750	7.0	2,100	0.62	4	120/1/60
MSVT72	61,500	73,000	84,800	96,500	108,400	7	2,400	1.22	4	120/1/60

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
MSVT18, 24	1/2	120/1/60	VJ1	10 x 8	C.T.
MSVT25	3/4		VK1	10 x 8	
msvt30	3/4		VK1	10 x 8	
MSVT36	3/4		VK1	10 x 8	
MSVT37	1.0		VX1	12 x 10	
MSVT42	1.0		VX1	12 x 10	
MSVT48	1.0		VX1	12 x 10	
MSVT60	1.0		VX1	12 x 10	

Field Installed Accessories

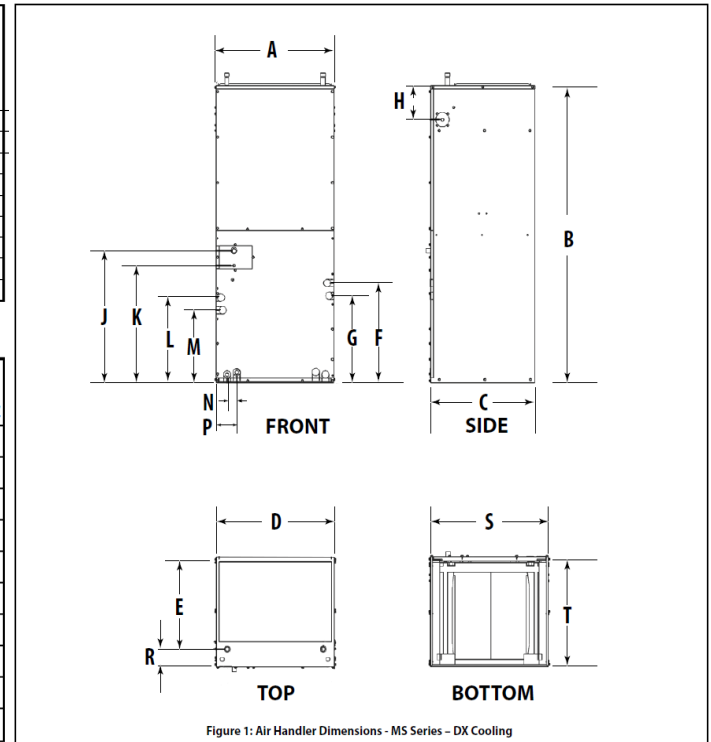
Filter Base Assembly Kit:

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



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	O	P	Q	R	S	T
6.75	16.82	13.52	10.81	8.25	4.85	2.00	4.05	8.75	5.00	16.50	19.75
6.75	20.38	14.32	12.66	10.29	7.55	2.30	4.35	10.50	5.00	20.00	19.75
6.75	27.86	19.68	16.84	14.34	10.31	2.30	4.35	12.25	4.50	23.50	20.75

