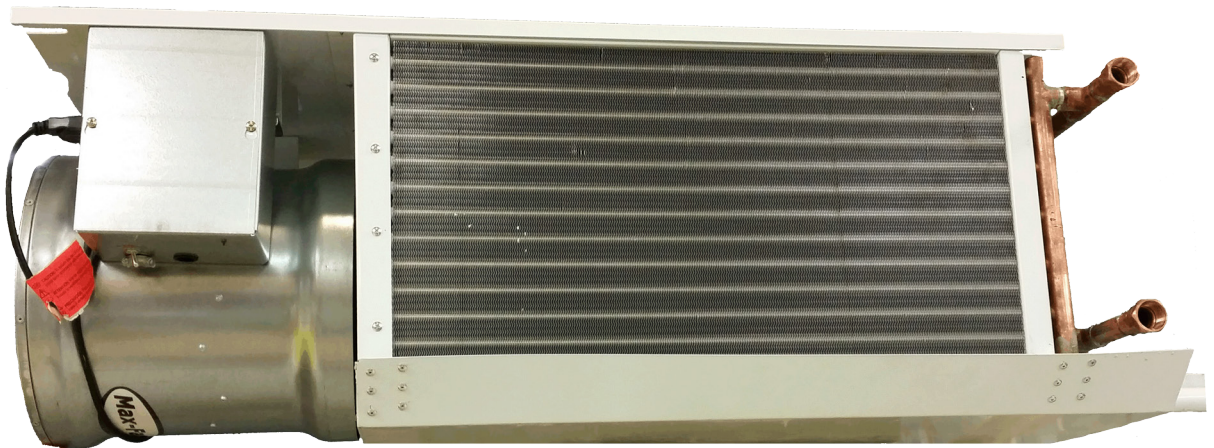




Surna IsoStream™ Air Handler Specifications Sheet



Dimensional and Electrical Data

Dimensional Data									
Model Number	Height (in)	Length (in)	Width (in)	Weight (lb)	Cooling Rows (FPI)	Copper Diameter	Water Inlet	Water Outlet	Drain
SCMAHV-42	15.15	44.0	23.87	121.0	4-15	3/8	3/4in FNTP	3/4in FNTP	3/4in MNPT

Electrical Data							
Model Number	Nominal CFM	Voltage - Hertz - Phase	Motor HP	Full Load Ampacity	Power	Minimum Circuit Ampacity	Maximum Overcurrent Protection
SCMAHV-42	1600	115V - 60Hz - 1PH	1/2	6.3A	0.49kW	7.9A	14.1A

Elevation and Glycol Derating

Elevation Derating										
Elevation	Sea Level	1,000 ft	2,000 ft	3,000 ft	4,000 ft	5,000 ft	6,000 ft	7,000 ft	8,000 ft	9,000 ft
SC Multiplier	1.000	0.969	0.937	0.908	0.879	0.851	0.824	0.796	0.770	0.744

Glycol Derating						
Glycol Concentration	0%	10%	20%	30%	40%	50%
SC Multiplier	1.000	0.986	0.957	0.926	0.890	0.872

Cooling Data

Cooling Data: SCMAHV-42							
EWT	Nominal CFM	Design dT		Entering Air Temperature			
				80°F DB /69°F WB	80°F DB /64°F WB	77°F DB /69°F WB	77°F DB /64°F WB
42	1600	10°F	SC (MBh)	52.2	51.6	47.6	47.0
			TC (MBh)	93.2	66.2	93.6	66.6
			WPD (psi)	1.32	0.74	1.33	0.74
			Condensation Rate (lb/hr)	38.0	14.2	42.8	17.4
			Flow Rate (GPM)	18.5	13.2	18.6	13.2
45	1600	10°F	SC (MBh)	47.2	46.4	42.6	41.8
			TC (MBh)	82.0	54.6	82.4	55.0
			WPD (psi)	1.04	0.52	1.06	0.53
			Condensation Rate (lb/hr)	31.6	7.8	36.4	12.6
			Flow Rate (GPM)	16.4	10.9	16.4	11.0
48	1600	10°F	SC (MBh)	42.0	42.0	37.4	37.4
			TC (MBh)	70.0	43.8	70.4	41.8
			WPD (psi)	0.79	0.36	0.79	0.20
			Condensation Rate (lb/hr)	12.7	0.8	15.0	2.3
			Flow Rate (GPM)	13.9	8.7	14.0	8.3



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