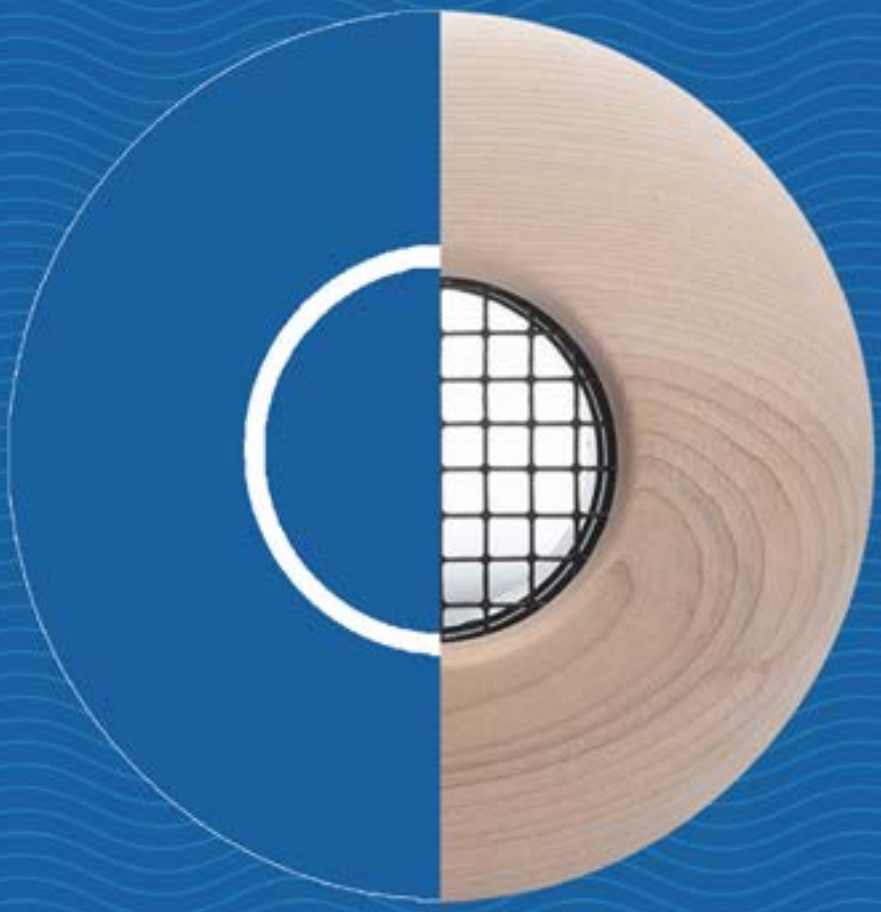
The Unico System®

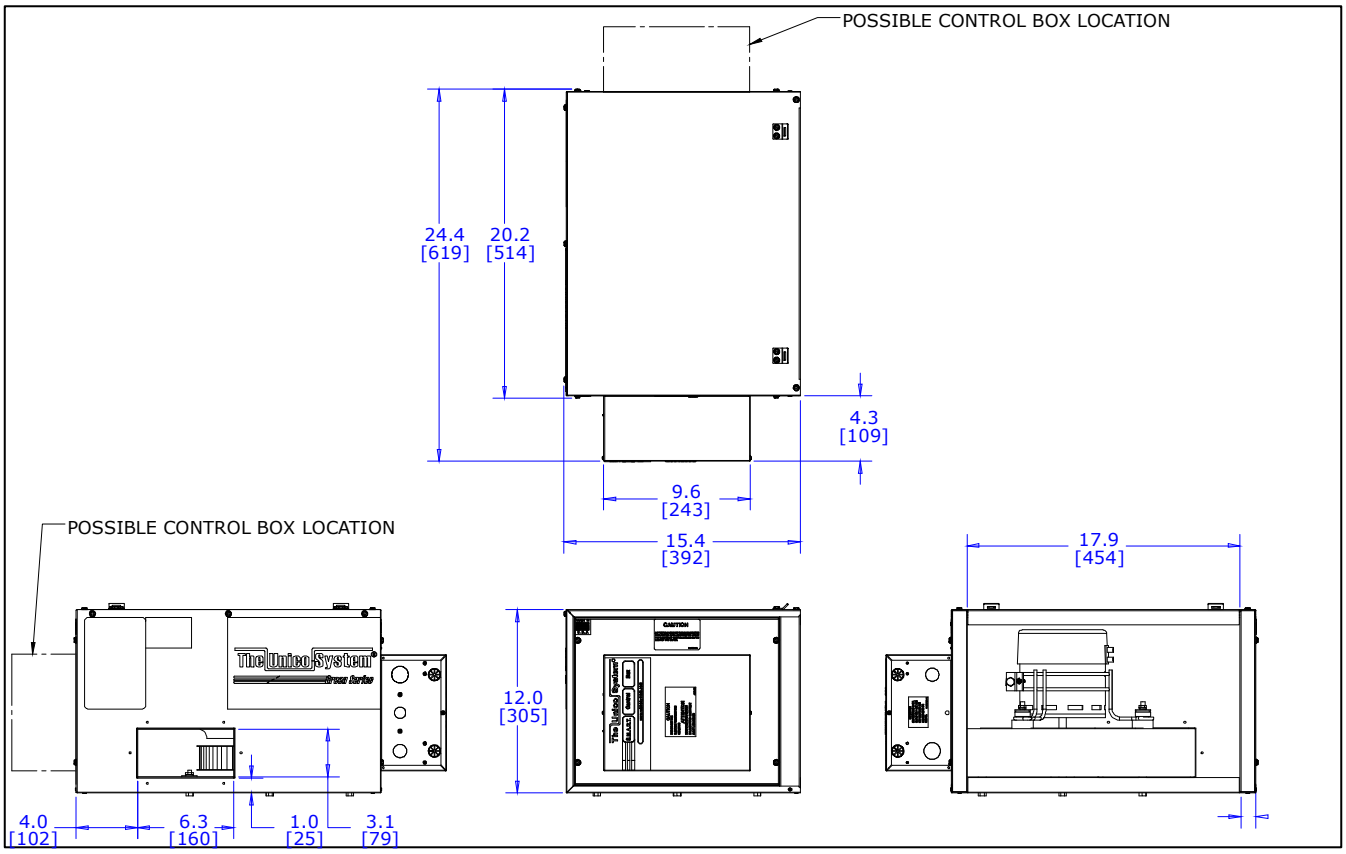
Air Handlers APPENDIX



Updated | *November 2024*

M Series Blower Module Dimensional Data

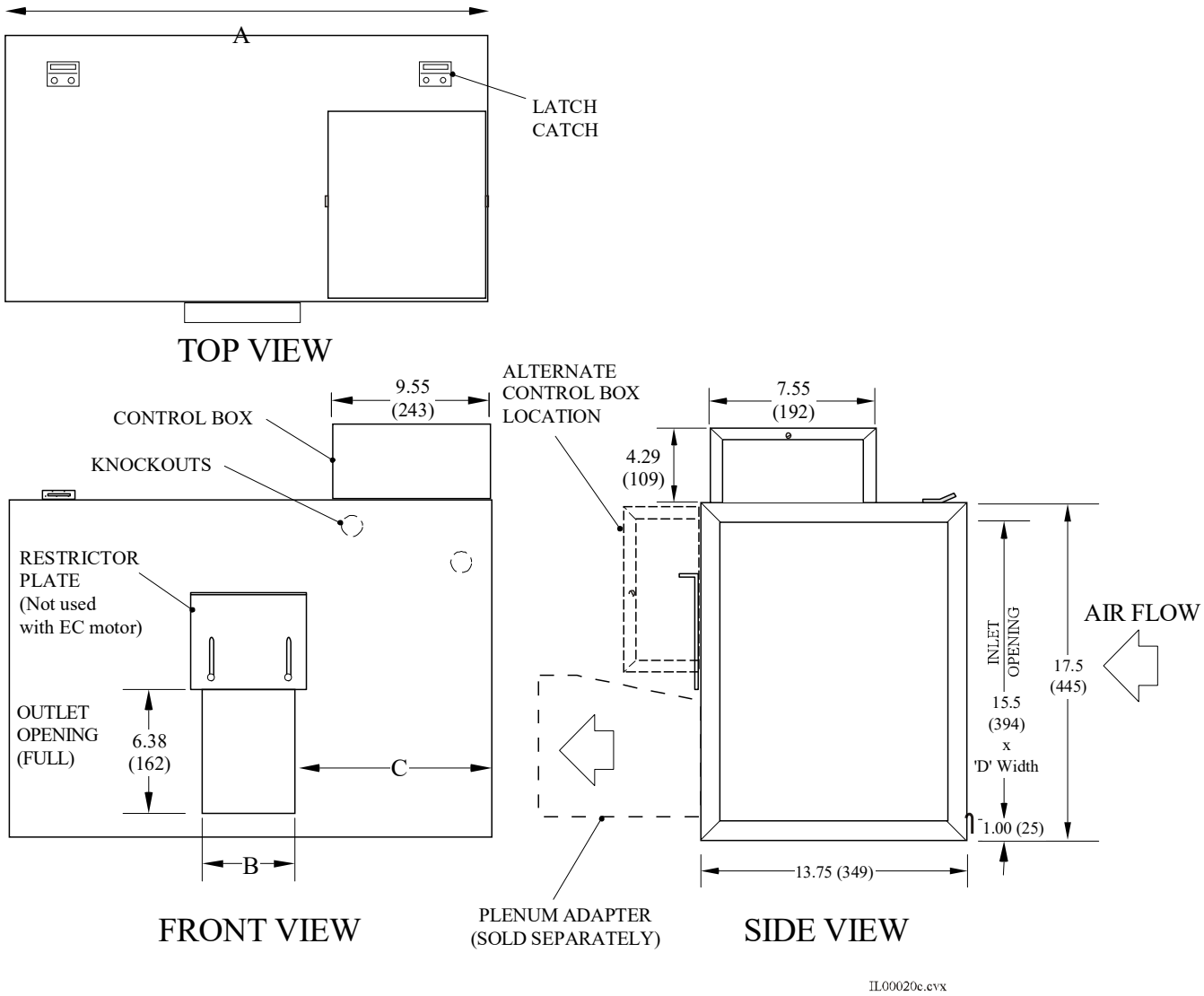
M1218 Series Blower Module



All dimensions in inches [mm]

M Series Blower Module Dimensional Data

M2430/3036/3642/4860 Series Blower Module



All dimensions in inches (mm)

Table 2. Blower Dimensional Table

Model No.		M2430BL	M3036BL	M3642BL	M4860BL
Dimensions [in. (mm)]	A	25.00 (635)	30.00 (762)	38.00 (965)	38.00 (965)
	B	6.00 (152)	7.24 (184)	7.16 (182)	9.92 (252)
	C	9.50 (242)	11.38 (289)	15.40 (392)	14.00 (356)
	D	23.00 (584)	28.00 (711)	36.00 (915)	36.00 (915)

M Series Blower Module Specifications

M1218/2430/3036/3642/4860 Series Blower Module

Model No.			M1218BL	M2430BL	M3036BL	M3642BL	M4860BL
Motor Electrical Characteristics	-ST2		208-230 V, 60 Hz, 1 ph				
	-EC2		120/208-240 V, 50/60 Hz, 1 ph				
Motor Size, HP (kW)			1/2 (0.37)		1 (0.75)		
Motor Type	-ST2		PSC				
	-EC2		ECM (variable speed)				
Motor Capacitor, mfd	-ST2		7.5	10			
	-EC2		none				
Motor minimum circuit ampacity (MCA)	-ST2		3.8		7.8		
	-EC2	120/240V	7.0 / 4.0		12.8 / 7.7		
Max. Overcurrent Protection (MOP), Amps	-ST2		15		15		
	-EC2	120/240V	15 / 15		20 / 15		
Motor Full Load, Amps	-ST2		1.9	3.0	6.2		
	-EC2	120/240V	5.6 / 3.2		10.2 / 6.1		
Motor Speed, RPM	-ST2		1700	1625			
	-EC2		400 – 1800				
Blower Wheel Diameter, in. (mm)			9.5 (241)				
Blower Wheel Width, in. (mm)			1.5 (3.8)	3.75 (95)	5.0 (127)	5.0 (127)	7.75 (197)
Nominal Air Flow Rate, CFM (m^3/s)			400 (0.19)	750 (0.35)	900 (0.42)	1100 (0.52)	1300 (0.61)
Nominal Static Pressure, in. w.c. (kPa)			1.5 (0.373)				
Minimum Plenum Size (ID), in. (mm)			7 (178)	7 (178)	9 (229)	9 (229)	10 (254)
Sound Pressure Level		dB(A)	52	56	56	56	58
		NC	40	50	47	47	50
Maximum Elevation of Operation, ft (m)			15,000 (4572)				
Shipping Weight, lbs (kg)			32 (15)	62 (28)	65 (30)	72 (33)	74 (34)

M Series Blower Module Performance Data

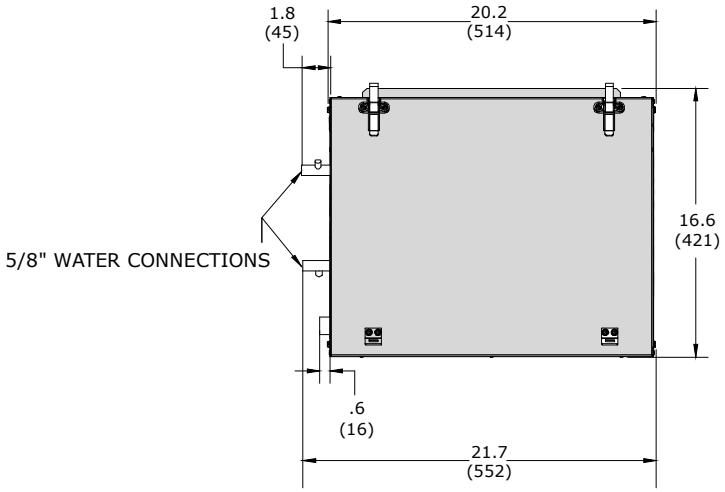
Model	External Static Pressure [in. w.c. (kPa)]									
	1.0 (0.25)		1.25 (.031)		1.5 (0.37)		1.75 (0.44)		2.0 (0.50)	
	CFM(L/s)	Amps	CFM(L/s)	Amps	CFM(L/s)	Amps	CFM(L/s)	Amps	CFM(L/s)	Amps
-ST Models										
M1218BL1/2	450 (0.21)	1.82	420 (0.20)	1.73	385 (0.18)	1.65	345 (0.16)	1.56	300 (0.14)	1.44
M2430BL1/2	870 (410)	3.1	810 (383)	2.9	740 (351)	2.7	660 (310)	2.4	510 (240)	2.0
M3036BL1/2	1170 (552)	4.6	1150 (543)	4.4	1070 (505)	4.1	965 (455)	3.8	825 (389)	3.2
M3642BL1/2	1240 (585)	4.8	1170 (552)	4.5	1070 (505)	4.1	925 (437)	3.6	745 (352)	3.1
M4860BL1/2	1472 (695)	4.7	1400 (660)	4.5	1300 (610)	4.2	1162 (548)	3.9	953 (450)	3.4

*The EC Motor adjusts RPM to maintain a desired airflow. Refer to page 17-21 for the performance map.

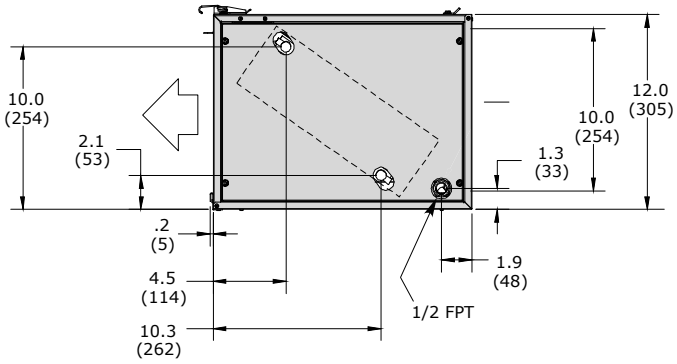
M Series Chilled Water Cooling Module Dimensional Data

M1218 Chilled Water Cooling Module

TOP VIEW

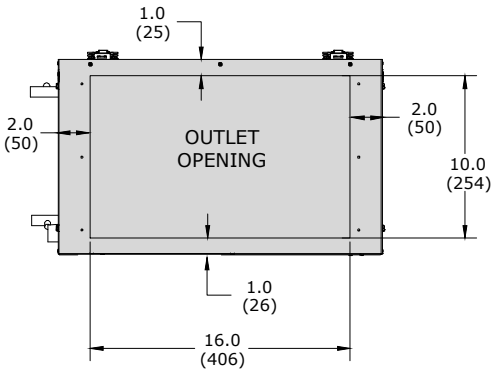


SIDE VIEW



AIR FLOW

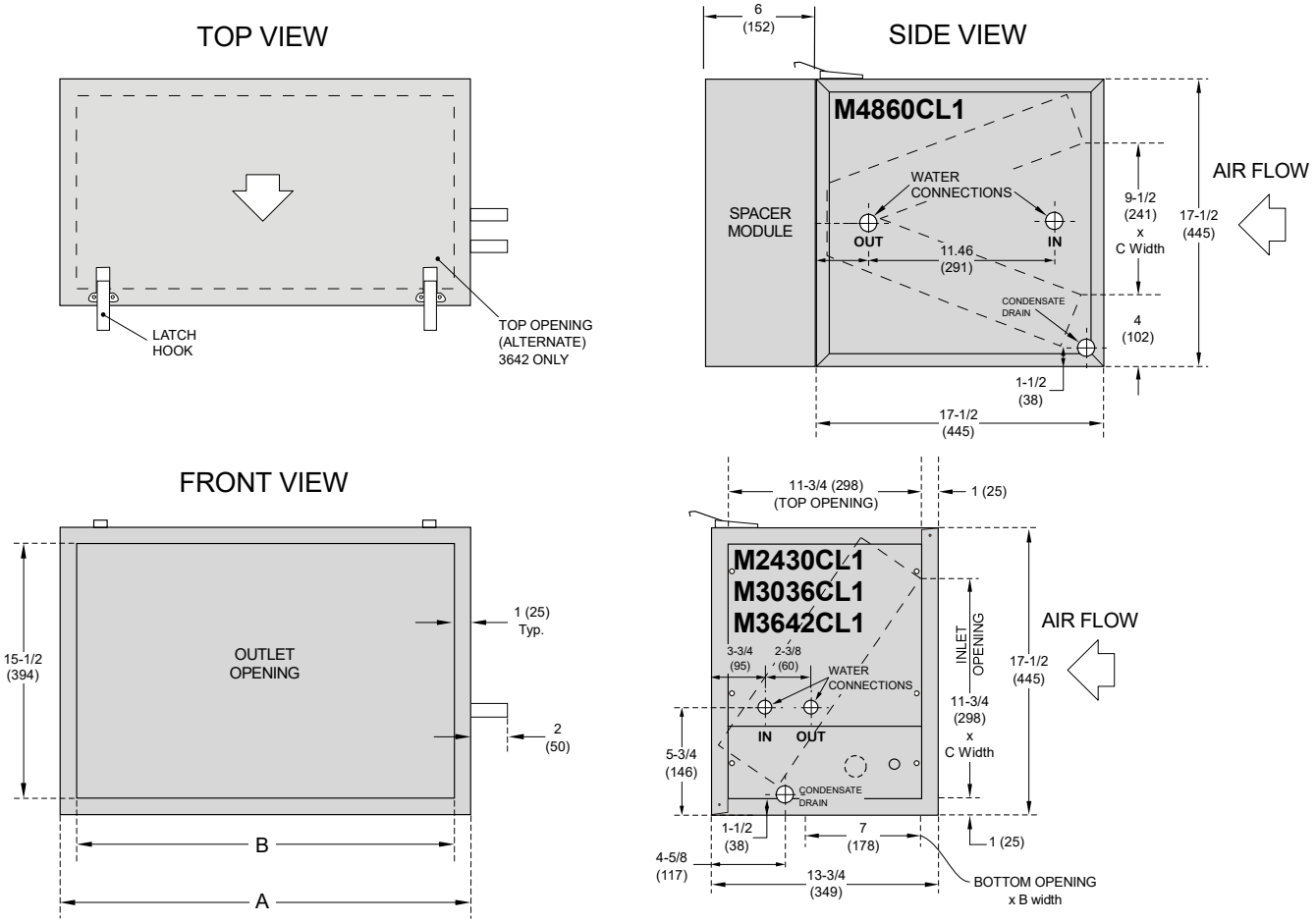
FRONT VIEW



UNIT SHOWN IN HORIZONTAL CONFIGURATION.
ALL DIMENSIONS IN INCHES (mm).

M Series Chilled Water Cooling Module Dimensional Data

M2430/3036/3642/4860 Chilled Water Cooling Module



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	M2430C	M3036C	M3642C	M4860C
A	25 (635)	30 (762)	38 (965)	38 (965)
B	23 (584)	28 (711)	36 (914)	36 (914)
C	20 (508)	25 (635)	33 (838)	32 (813)

UNIT SHOWN IN HORIZONTAL AIRFLOW CONFIGURATION
USE ALTERNATE OPENINGS FOR VERTICAL AIRFLOW.
ALL DIMENSIONS IN INCHES (mm).

M Series Chilled Water Cooling Module Specification

M2430/3036/3642/4860 Chilled Water Cooling Module

Chilled Water Module Model No.		M1218CL1-C	M2430CL1-C	M3036CL1-C	M3642CL1-C	M4860CL1-C
Water Coil Properties	Net Face Area, [ft.^{2}, (m^2)]	1.17 (0.11)	2.129 (0.20)	2.650 (0.25)	3.483 (0.32)	7.33 (0.68)
	Tube Diameter, [in., (mm)]	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	No. of Rows	6	6	6	6	4
	Fin Density, [fins/in., (fins/m)]	15 (590)	15.5 (610)	15.5 (610)	15.5 (610)	14 (550)
	Design Pressure, [psig, (kPa)]	320 (2206)	320 (2206)	320 (2206)	320 (2206)	320 (2206)
	Water Connection Size, ODF Sweat, [in., (mm)]	5/8 (15.9)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	1-1/8 (28.5)
	Condensate drain connection size, FPT, [in., (mm)]	1/2 (13)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
	Coil Water Volume, [gal., (L)]	0.6 (2.2)	0.9 (3.4)	1.04 (3.9)	1.4 (5.3)	2.0 (7.6)
Cabinet Dimensions [in., (mm)]	L	20.2 (514)	25 (635)	30 (762)	38 (965)	38 (965)
	W	13.75 (349)	13.75 (349)	13.75 (349)	13.75 (349)	17.50 (445)
	H	12.0 (305)	17.50 (445)	17.50 (445)	17.50 (445)	17.50 (445)
Shipping Weight [lbs, (kg)]		33 (15)	60 (27)	70 (31.8)	78 (36)	105 (48)

M Series Chilled Water Cooling Module Performance Data (Cooling Mode)

The performance tables below are based on 80°F db/67°F wb (27°C db/19°C wb) entering air and pure water. See capacity multiplier tables for correction factors for different temperatures and glycol concentrations.

M1218/2430/3036/3642/4860 Series Chilled Water Module

M1218CL1-C				Airflow									Water Pressure Drop	
Entering Water Temp		Water Flow Rate		200 CFM (0.09 m^3/s)			300 CFM (0.14 m^3/s)			400 CFM (0.19 m^3/s)				
				Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR		
°F	°C	GPM	L/s	MBH	kW		MBH	kW		MBH	kW		ft. w.g.	kPa
40	(4.4)	2	(0.13)	11.1	(3.25)	0.62	14.1	(4.13)	0.64	16.0	(4.68)	0.67	1.0	3.0
		4	(0.25)	11.9	(3.48)	0.61	15.8	(4.63)	0.62	18.7	(5.47)	0.64	3.3	9.9
		6	(0.38)	12.5	(3.66)	0.60	17.2	(5.04)	0.61	20.9	(6.11)	0.62	7.5	22.4
45	(7.2)	2	(0.13)	8.6	(2.52)	0.66	10.7	(3.14)	0.71	12.2	(3.58)	0.75	0.9	2.7
		4	(0.25)	10.1	(2.96)	0.63	13.3	(3.90)	0.65	15.7	(4.61)	0.68	3.4	10.2
		6	(0.38)	10.6	(3.11)	0.62	14.5	(4.25)	0.64	17.5	(5.14)	0.65	7.4	22.1
50	(10.0)	2	(0.13)	6.9	(2.02)	0.72	8.7	(2.55)	0.78	10.1	(2.96)	0.82	0.9	2.7
		4	(0.25)	8.1	(2.37)	0.68	10.7	(3.14)	0.71	12.7	(3.72)	0.74	3.4	10.2
		6	(0.38)	8.5	(2.49)	0.67	11.6	(3.40)	0.69	14.0	(4.09)	0.71	7.3	21.8
55	(12.8)	2	(0.13)	5.3	(1.55)	0.83	6.9	(2.02)	0.88	8.2	(2.40)	0.92	0.7	2.1
		4	(0.25)	6.0	(1.75)	0.77	8.0	(2.34)	0.81	9.7	(2.84)	0.85	3.4	10.2
		6	(0.38)	6.3	(1.84)	0.76	8.6	(2.52)	0.79	10.5	(3.07)	0.82	7.2	21.5
Recommended No. of Outlets				6			9			12				

M2430CL1-C				Airflow											Water Pressure Drop	
Entering Water Temp		Water Flow Rate		400CFM (0.19 m^3/s)			500CFM (0.24 m^3/s)			600CFM (0.28 m^3/s)			700CFM (0.33 m^3/s)			
				Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR	
°F	°C	GPM	L/s	MBH	kW		MBH	kW		MBH	kW		MBH	kW		ft. w.g.	kPa
40	(4.4)	2	(0.13)	18.9	5.5	0.64	21.1	6.2	0.66	22.7	6.7	0.68	24.0	7.0	0.69	1.0	3.0
		4	(0.25)	22.2	6.5	0.62	25.4	7.4	0.63	28.1	8.2	0.64	30.3	8.9	0.66	3.3	9.9
		6	(0.38)	24.2	7.1	0.61	28.5	8.4	0.61	32.0	9.4	0.62	35.1	10.3	0.63	7.5	22.4
		8	(0.50)	25.2	7.4	0.60	30.0	8.8	0.61	34.2	10.0	0.61	37.9	11.1	0.62	12.7	37.9
45	(7.2)	2	(0.13)	16.0	4.7	0.68	17.9	5.2	0.70	19.4	5.7	0.72	20.7	6.1	0.74	0.9	2.7
		4	(0.25)	18.7	5.5	0.65	21.5	6.3	0.66	23.7	6.9	0.68	25.7	7.5	0.70	3.4	10.2
		6	(0.38)	20.4	6.0	0.63	24.0	7.0	0.64	26.9	7.9	0.65	29.5	8.6	0.66	7.4	22.1
		8	(0.50)	21.3	6.2	0.62	25.3	7.4	0.63	28.8	8.4	0.64	31.9	9.3	0.65	12.6	37.6
50	(10.0)	2	(0.13)	13.1	3.8	0.74	14.8	4.3	0.77	16.3	4.8	0.79	17.4	5.1	0.80	0.9	2.7
		4	(0.25)	15.1	4.4	0.70	17.4	5.1	0.72	19.3	5.7	0.74	21.0	6.2	0.76	3.4	10.2
		6	(0.38)	16.4	4.8	0.68	19.3	5.7	0.69	21.7	6.4	0.71	23.8	7.0	0.72	7.3	21.8
		8	(0.50)	17.1	5.0	0.67	20.3	5.9	0.68	23.1	6.8	0.69	25.6	7.5	0.70	12.4	37.1
55	(12.8)	2	(0.13)	9.8	2.9	0.86	11.3	3.3	0.88	10.7	3.1	0.89	11.4	3.3	0.89	0.7	2.1
		4	(0.25)	11.4	3.3	0.80	13.3	3.9	0.82	15.0	4.4	0.84	16.5	4.8	0.86	3.4	10.2
		6	(0.38)	12.2	3.6	0.77	14.4	4.2	0.79	16.3	4.8	0.81	18.1	5.3	0.83	7.2	21.5
		8	(0.50)	12.6	3.7	0.76	15.0	4.4	0.77	17.2	5.0	0.79	19.1	5.6	0.80	12.3	36.8
Recommended No. of Outlets				12			15			18			21				

M Series Chilled Water Cooling Module Performance Data (Cooling Mode)

M3036CL1-C				Airflow													Water Pressure Drop	
Entering Water Temp		Water Flow Rate		500CFM (0.24 m^3/s)			600CFM (0.28 m^3/s)			700CFM (0.33 m^3/s)			800CFM (0.38 m^3/s)					
				Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR			
°F	°C	GPM	L/s	MBH	kW		MBH	kW		MBH	kW		MBH	kW		ft. w.g.	kPa	
40	(4.4)	2	(0.13)	21.3	6.2	0.66	23.1	6.8	0.68	24.4	7.2	0.69	25.4	7.4	0.70	0.60	1.8	
		4	(0.25)	25.3	7.4	0.63	28.1	8.2	0.64	30.3	8.9	0.66	32.3	9.5	0.67	1.80	5.4	
		6	(0.38)	28.5	8.4	0.61	32.1	9.4	0.62	35.3	10.3	0.63	38.0	11.1	0.64	4.20	12.5	
		8	(0.50)	30.1	8.8	0.61	34.5	10.1	0.61	38.3	11.2	0.62	41.6	12.2	0.62	7.20	21.5	
45	(7.2)	2	(0.13)	18.1	5.3	0.70	19.7	5.8	0.72	21.0	6.1	0.74	21.9	6.4	0.75	0.60	1.8	
		4	(0.25)	21.4	6.3	0.66	23.7	7.0	0.68	25.7	7.5	0.70	27.5	8.1	0.71	1.80	5.4	
		6	(0.38)	24.0	7.0	0.64	27.1	7.9	0.65	29.7	8.7	0.66	32.1	9.4	0.67	4.20	12.5	
		8	(0.50)	25.5	7.5	0.63	29.1	8.5	0.64	32.2	9.5	0.65	35.1	10.3	0.66	7.20	21.5	
50	(10.0)	2	(0.13)	14.9	4.4	0.76	16.5	4.8	0.78	17.7	5.2	0.80	18.6	5.4	0.81	0.60	1.8	
		4	(0.25)	17.3	5.1	0.72	19.3	5.7	0.74	21.1	6.2	0.76	22.7	6.6	0.78	1.80	5.4	
		6	(0.38)	19.3	5.7	0.69	21.8	6.4	0.71	24.0	7.0	0.72	26.0	7.6	0.74	4.20	12.3	
		8	(0.50)	20.5	6.0	0.68	23.4	6.8	0.69	25.9	7.6	0.70	28.2	8.3	0.71	7.10	21.2	
55	(12.8)	2	(0.13)	12.0	3.5	0.85	13.5	3.9	0.87	14.6	4.3	0.89	12.8	3.8	1.00	0.50	1.5	
		4	(0.25)	13.3	3.9	0.82	15.1	4.4	0.84	16.7	4.9	0.86	18.2	5.3	0.88	1.80	5.4	
		6	(0.38)	14.5	4.2	0.79	16.5	4.8	0.80	18.3	5.4	0.82	20.0	5.9	0.84	4.10	12.3	
		8	(0.50)	15.2	4.4	0.77	17.4	5.1	0.78	19.4	5.7	0.80	21.2	6.2	0.81	7.10	21.2	
Recommended No. of Outlets				15			18			21			24					

M3642CL1-C				Airflow													Water Pressure Drop	
Entering Water Temp		Water Flow Rate		700CFM (0.33 m^3/s)			800CFM (0.38 m^3/s)			900CFM (0.43 m^3/s)			1000CFM (0.47 m^3/s)					
				Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR			
°F	°C	GPM	L/s	MBH	kW		MBH	kW		MBH	kW		MBH	kW		ft. w.g.	kPa	
40	(4.4)	4	(0.25)	32.8	9.6	0.64	35.2	10.3	0.66	37.2	10.9	0.67	38.9	11.4	0.68	2.1	6.3	
		6	(0.38)	37.9	11.1	0.62	41.1	12.0	0.63	43.9	12.9	0.64	46.4	13.6	0.64	5.2	15.5	
		8	(0.50)	40.8	12.0	0.61	44.7	13.1	0.62	48.2	14.1	0.62	51.3	15.0	0.63	8.9	26.6	
		10	(0.63)	42.5	12.5	0.61	46.9	13.7	0.61	50.9	14.9	0.61	54.6	16.0	0.62	13.5	40.3	
45	(7.2)	4	(0.25)	27.9	8.2	0.68	30.0	8.8	0.69	31.8	9.3	0.71	33.4	9.8	0.72	2.2	6.6	
		6	(0.38)	31.9	9.3	0.65	34.7	10.2	0.66	37.1	10.9	0.67	39.2	11.5	0.68	5.2	15.5	
		8	(0.50)	34.4	10.1	0.64	37.6	11.0	0.64	40.6	11.9	0.65	43.2	12.7	0.66	8.8	26.3	
		10	(0.63)	35.8	10.5	0.63	39.5	11.6	0.64	42.9	12.6	0.64	46.0	13.5	0.65	13.4	40.0	
50	(10.0)	4	(0.25)	22.8	6.7	0.74	24.7	7.2	0.76	26.3	7.7	0.77	27.8	8.1	0.78	2.2	6.6	
		6	(0.38)	25.8	7.6	0.70	28.1	8.2	0.72	30.2	8.9	0.73	32.0	9.4	0.74	5.1	15.2	
		8	(0.50)	27.6	8.1	0.69	30.3	8.9	0.70	32.7	9.6	0.71	34.9	10.2	0.72	8.7	26.0	
		10	(0.63)	28.8	8.4	0.68	31.8	9.3	0.68	34.5	10.1	0.69	37.0	10.8	0.70	13.2	39.4	
55	(12.8)	4	(0.25)	17.9	5.2	0.84	19.6	5.7	0.85	21.2	6.2	0.86	22.6	6.6	0.87	2.0	6.0	
		6	(0.38)	19.6	5.7	0.80	21.5	6.3	0.82	23.3	6.8	0.83	24.9	7.3	0.84	4.6	13.7	
		8	(0.50)	20.6	6.0	0.78	22.7	6.7	0.79	24.7	7.2	0.81	26.5	7.8	0.82	7.9	23.6	
		10	(0.63)	21.3	6.2	0.77	23.6	6.9	0.78	25.7	7.5	0.79	27.7	8.1	0.80	11.9	35.6	
Recommended No. of Outlets				21			24			27			30					

M Series Chilled Water Cooling Module Performance Data (Cooling Mode)

M4860CL1-C				Airflow													Water Pressure Drop	
Entering Water Temp		Water Flow Rate		900CFM (0.43 m^3/s)			1000CFM (0.47 m^3/s)			1100CFM (0.52 m^3/s)			1250CFM (0.59 m^3/s)					
				Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR	Total Capacity		SHR			
°F	°C	GPM	L/s	MBH	kW		MBH	kW		MBH	kW		MBH	kW		ft. w.g.	kPa	
40	(4.4)	4	(0.25)	37.9	11.1	0.67	39.8	11.7	0.68	41.6	12.2	0.70	43.9	12.9	0.72	1.6	4.8	
		6	(0.38)	45.1	13.2	0.63	47.9	14.0	0.64	50.4	14.8	0.65	53.7	15.7	0.67	4.0	12.0	
		8	(0.50)	49.7	14.6	0.62	53.2	15.6	0.62	56.4	16.5	0.63	60.6	17.8	0.64	7.1	21.2	
		10	(0.63)	52.7	15.4	0.61	56.7	16.6	0.62	60.5	17.7	0.62	65.5	19.2	0.63	10.7	32.0	
		12	(0.76)	54.6	16.0	0.61	59.1	17.3	0.61	63.3	18.6	0.61	69.0	20.2	0.62	14.9	44.5	
45	(7.2)	4	(0.25)	32.3	9.5	0.71	34.1	10.0	0.73	35.7	10.5	0.75	37.8	11.1	0.76	1.6	4.8	
		6	(0.38)	38.1	11.2	0.67	40.5	11.9	0.68	42.7	12.5	0.69	45.5	13.3	0.71	4.1	12.3	
		8	(0.50)	41.9	12.3	0.65	44.8	13.1	0.66	47.5	13.9	0.66	51.1	15.0	0.68	7.0	20.9	
		10	(0.63)	44.4	13.0	0.64	47.8	14.0	0.64	50.9	14.9	0.65	55.1	16.1	0.66	10.5	31.4	
		12	(0.76)	46.0	13.5	0.63	49.8	14.6	0.64	53.3	15.6	0.64	58.1	17.0	0.65	14.7	43.9	
50	(10.0)	4	(0.25)	26.7	7.8	0.78	28.3	8.3	0.80	29.8	8.7	0.81	31.9	9.3	0.83	1.6	4.8	
		6	(0.38)	31.0	9.1	0.73	33.0	9.7	0.74	34.9	10.2	0.76	37.5	11.0	0.77	4.1	12.3	
		8	(0.50)	33.8	9.9	0.70	36.2	10.6	0.71	38.5	11.3	0.72	41.5	12.2	0.74	6.9	20.6	
		10	(0.63)	35.7	10.5	0.69	38.4	11.3	0.69	41.0	12.0	0.70	44.5	13.0	0.72	10.4	31.1	
		12	(0.76)	37.0	10.8	0.68	40.0	11.7	0.68	42.8	12.5	0.69	46.7	13.7	0.70	14.5	43.3	
55	(12.8)	4	(0.25)	21.4	6.3	0.87	22.9	6.7	0.88	24.3	7.1	0.89	26.2	7.7	0.90	1.7	5.1	
		6	(0.38)	23.8	7.0	0.83	25.6	7.5	0.84	27.3	8.0	0.86	29.7	8.7	0.87	4.0	12.0	
		8	(0.50)	25.5	7.5	0.80	27.5	8.1	0.81	29.4	8.6	0.82	32.0	9.4	0.84	6.8	20.3	
		10	(0.63)	26.7	7.8	0.78	28.8	8.4	0.79	30.9	9.1	0.80	33.8	9.9	0.82	10.2	30.5	
		12	(0.76)	27.4	8.0	0.77	29.8	8.7	0.78	32.0	9.4	0.79	35.1	10.3	0.80	14.3	42.7	
Recommended No. of Outlets				27			30			33			38					

M Series Chilled Water Cooling Module Performance Data (Heating Mode)

The performance tables below are based on 70°F db (21°C db) entering air. See capacity multiplier tables for correction factors for different temperatures and glycol concentrations.

M1218/2430/3036/3642/4860 Series Chilled Water Module

M1218CL1-C				Airflow						Water Pressure Drop	
Entering Water Temp		Water Flow Rate		200 CFM (0.09 m^3/s)		300 CFM (0.14 m^3/s)		400 CFM (0.19 m^3/s)			
				Total Capacity		Total Capacity		Total Capacity			
°F	°C	GPM	L/s	MBH	kW	MBH	kW	MBH	kW	ft. w.g.	kPa
95	(35)	2	(0.13)	7.0	(2.1)	9.6	(2.8)	11.4	(3.4)	1.1	(3.28)
		4	(0.25)	7.0	(2.1)	10.3	(3.0)	13.0	(3.8)	4.3	(12.84)
		6	(0.38)	7.0	(2.1)	10.4	(3.1)	13.3	(3.9)	9.3	(27.75)
110	(43)	2	(0.13)	11.3	(3.3)	15.6	(4.6)	18.7	(5.5)	1.1	(3.28)
		4	(0.25)	11.3	(3.3)	16.6	(4.8)	21.0	(6.1)	4.2	(12.43)
		6	(0.38)	11.3	(3.3)	16.7	(4.9)	21.3	(6.2)	9.2	(27.45)
120	(49)	2	(0.13)	14.0	(4.1)	19.6	(5.7)	23.7	(6.9)	1.1	(3.28)
		4	(0.25)	14.0	(4.1)	20.7	(6.0)	26.3	(7.6)	4.2	(12.43)
		6	(0.38)	14.0	(4.1)	20.9	(6.0)	26.7	(7.7)	9.1	(27.15)
140	(60)	2	(0.13)	19.7	(5.7)	27.7	(8.1)	33.6	(9.8)	1.1	(3.28)
		4	(0.25)	19.7	(5.7)	29.2	(8.5)	37.0	(10.7)	4.1	(12.19)
		6	(0.38)	19.7	(5.7)	29.3	(8.5)	37.8	(11.1)	8.9	(26.55)
160	(71)	2	(0.13)	25.3	(7.4)	35.9	(10.5)	43.5	(12.7)	1.1	(3.28)
		4	(0.25)	25.3	(7.4)	37.6	(10.9)	47.8	(13.9)	4.0	(11.98)
		6	(0.38)	25.3	(7.4)	37.8	(10.9)	48.6	(14.1)	8.7	(25.95)
180	(82)	2	(0.13)	31.2	(9.1)	44.0	(12.9)	53.5	(15.5)	1.1	(3.28)
		4	(0.25)	31.2	(9.1)	46.0	(13.4)	58.3	(16.9)	3.9	(11.60)
		6	(0.38)	31.2	(9.1)	46.2	(13.4)	59.5	(17.3)	8.6	(25.65)
Recommended No. of Outlets				6		9		12			

WARNING

To prevent injury or damage from high temperatures, do not install floor outlets when operating in the shaded area. Discharge temperatures in this range can exceed 160°F (71°C)

M Series Chilled Water Cooling Module Performance Data (Heating Mode)

M2430CL1-C				Airflow								Water Pressure Drop	
Entering Water Temp		Water Flow Rate		400CFM (0.19 m^3/s)		500CFM (0.24 m^3/s)		600CFM (0.28 m^3/s)		700CFM (0.33 m^3/s)			
				Total Capacity		Total Capacity		Total Capacity		Total Capacity			
°F	°C	GPM	L/s	MBH	kW	MBH	kW	MBH	kW	MBH	kW	ft. w.g.	kPa
95	(35)	2	(0.13)	9.3	2.7	10.7	3.1	11.8	3.5	12.6	3.7	0.8	2.4
		4	(0.25)	9.8	2.9	12.2	3.6	14.1	4.1	15.8	4.6	3.2	9.6
		6	(0.38)	9.8	2.9	12.3	3.6	14.5	4.2	16.5	4.8	6.7	20.0
110	(43)	2	(0.13)	15.2	4.5	17.5	5.1	19.4	5.7	20.8	6.1	0.8	2.4
		4	(0.25)	15.7	4.6	19.7	5.8	22.7	6.7	25.5	7.5	3.1	9.3
		6	(0.38)	15.7	4.6	19.7	5.8	23.3	6.8	26.5	7.8	6.5	19.4
120	(49)	2	(0.13)	19.2	5.6	22.2	6.5	24.6	7.2	26.5	7.8	0.8	2.4
		4	(0.25)	19.7	5.8	24.6	7.2	28.5	8.4	31.9	9.3	3.0	9.0
		6	(0.38)	19.7	5.8	24.6	7.2	29.2	8.6	33.2	9.7	6.4	19.1
140	(60)	2	(0.13)	27.1	7.9	31.5	9.2	35.0	10.3	37.7	11.0	0.8	2.4
		4	(0.25)	27.5	8.1	34.4	10.1	40.1	11.8	45.0	13.2	2.9	8.7
		6	(0.38)	27.5	8.1	34.4	10.1	41.1	12.0	46.7	13.7	6.2	18.5
160	(71)	2	(0.13)	35.0	10.3	40.8	12.0	45.2	13.2	48.8	14.3	0.8	2.4
		4	(0.25)	35.4	10.4	44.3	13.0	51.7	15.2	58.1	17.0	2.9	8.7
		6	(0.38)	35.4	10.4	44.3	13.0	52.9	15.5	60.2	17.6	6.1	18.2
180	(82)	2	(0.13)	43.0	12.6	50.0	14.7	55.5	16.3	59.9	17.6	0.8	2.4
		4	(0.25)	43.3	12.7	54.1	15.9	63.4	18.6	71.2	20.9	2.8	8.4
		6	(0.38)	43.3	12.7	54.1	15.9	64.8	19.0	73.8	21.6	5.9	17.6
Recommended No. of Outlets				12		15		18		21			

WARNING

To prevent injury or damage from high temperatures, do not install floor outlets when operating in the shaded area. Discharge temperatures in this range can exceed 160°F (71°C)

M Series Chilled Water Cooling Module Performance Data (Heating Mode)

M3036CL1-C				Airflow								Water Pressure Drop	
Entering Water Temp		Water Flow Rate		500CFM (0.24 m^3/s)		600CFM (0.28 m^3/s)		700CFM (0.33 m^3/s)		800CFM (0.38 m^3/s)			
				Total Capacity		Total Capacity		Total Capacity		Total Capacity			
°F	°C	GPM	L/s	MBH	kW	MBH	kW	MBH	kW	MBH	kW	ft. w.g.	kPa
95	(35)	2	(0.13)	10.7	3.1	11.7	3.4	12.5	3.7	13.1	3.8	0.4	0.1
		4	(0.25)	12.4	3.6	14.6	4.3	16.3	4.8	17.9	5.2	1.8	0.4
		6	(0.38)	12.4	3.6	14.9	4.4	17.1	5.0	19.0	5.6	3.9	1.0
		8	(0.50)	12.4	3.6	14.9	4.4	17.3	5.1	19.4	5.7	6.6	1.6
110	(43)	2	(0.13)	17.5	5.1	19.3	5.6	20.6	6.0	21.7	6.3	0.4	0.1
		4	(0.25)	19.9	5.8	23.6	6.9	26.5	7.8	29.0	8.5	1.8	0.4
		6	(0.38)	19.9	5.8	23.9	7.0	27.5	8.1	30.6	9.0	3.8	0.9
		8	(0.50)	19.9	5.8	23.9	7.0	27.8	8.1	31.1	9.1	6.5	1.6
120	(49)	2	(0.13)	22.3	6.5	24.5	7.2	26.3	7.7	27.6	8.1	0.4	0.1
		4	(0.25)	24.8	7.3	29.5	8.7	33.2	9.7	36.4	10.7	1.8	0.4
		6	(0.38)	24.8	7.3	29.8	8.7	34.4	10.1	38.3	11.2	3.7	0.9
		8	(0.50)	24.8	7.3	29.8	8.7	34.8	10.2	39.0	11.4	6.4	1.6
140	(60)	2	(0.13)	32.2	9.4	35.5	10.4	38.1	11.2	31.8	9.3	0.4	0.1
		4	(0.25)	34.8	10.2	41.6	12.2	46.7	13.7	51.3	15.0	1.7	0.3
		6	(0.38)	34.8	10.2	41.7	12.2	48.4	14.2	53.9	15.8	3.7	0.9
		8	(0.50)	34.8	10.2	41.7	12.2	48.7	14.3	54.8	16.1	6.3	1.5
160	(71)	2	(0.13)	42.2	12.4	46.9	13.7	50.5	14.8	53.2	15.6	0.5	0.1
		4	(0.25)	44.7	13.1	53.6	15.7	60.3	17.7	66.2	19.4	1.7	0.4
		6	(0.38)	44.7	13.1	53.7	15.7	62.4	18.3	69.5	20.4	3.6	0.9
		8	(0.50)	44.7	13.1	53.7	15.7	62.6	18.3	70.6	20.7	6.1	1.5
180	(82)	2	(0.13)	51.9	15.2	57.6	16.9	62.1	18.2	65.5	19.2	0.5	0.1
		4	(0.25)	54.7	16.0	65.6	19.2	74.0	21.7	81.3	23.8	1.6	0.4
		6	(0.38)	54.7	16.0	65.6	19.2	76.5	22.4	85.2	25.0	3.5	0.9
		8	(0.50)	54.7	16.0	65.6	19.2	76.5	22.4	86.5	25.4	6.0	1.5
Recommended No. of Outlets				15		18		21		24			

WARNING

To prevent injury or damage from high temperatures, do not install floor outlets when operating in the shaded area. Discharge temperatures in this range can exceed 160°F (71°C)

M Series Chilled Water Cooling Module Performance Data (Heating Mode)

M3642CL1-C				Airflow								Water Pressure Drop	
Entering Water Temp		Water Flow Rate		700CFM (0.33 m^3/s)		800CFM (0.38 m^3/s)		900CFM (0.43 m^3/s)		1000CFM (0.47 m^3/s)			
				Total Capacity		Total Capacity		Total Capacity		Total Capacity			
°F	°C	GPM	L/s	MBH	kW	MBH	kW	MBH	kW	MBH	kW	ft. w.g.	kPa
95	(35)	4	(0.25)	17.2	5.0	19.0	5.6	20.5	6.0	21.9	6.4	2.2	6.6
		6	(0.38)	17.2	5.0	19.7	5.8	21.8	6.4	23.6	6.9	4.7	14.0
		8	(0.50)	17.2	5.0	19.7	5.8	22.1	6.5	24.2	7.1	8.0	23.9
110	(43)	4	(0.25)	27.5	8.1	30.6	9.0	33.1	9.7	35.4	10.4	2.2	6.6
		6	(0.38)	27.5	8.1	31.5	9.2	35.0	10.3	37.9	11.1	4.6	13.7
		8	(0.50)	27.5	8.1	31.5	9.2	35.4	10.4	38.8	11.4	7.8	23.3
120	(49)	4	(0.25)	34.4	10.1	38.3	11.2	41.6	12.2	44.4	13.0	2.1	6.3
		6	(0.38)	34.4	10.1	39.4	11.5	43.8	12.8	47.6	14.0	4.5	13.4
		8	(0.50)	34.4	10.1	39.4	11.5	44.3	13.0	48.6	14.2	7.7	23.0
140	(60)	4	(0.25)	48.2	14.1	53.9	15.8	58.5	17.1	62.6	18.3	2.1	6.3
		6	(0.38)	48.2	14.1	55.1	16.1	61.6	18.1	66.9	19.6	4.4	13.1
		8	(0.50)	48.2	14.1	55.1	16.1	62.0	18.2	68.3	20.0	7.5	22.4
160	(71)	4	(0.25)	62.0	18.2	69.6	20.4	75.5	22.1	80.8	23.7	2.0	6.0
		6	(0.38)	62.0	18.2	70.8	20.7	79.5	23.3	86.3	25.3	4.3	12.8
		8	(0.50)	62.0	18.2	70.8	20.7	79.7	23.4	88.1	25.8	7.3	21.8
180	(82)	4	(0.25)	75.7	22.2	85.3	25.0	92.6	27.1	99.1	29.0	2.0	6.0
		6	(0.38)	75.7	22.2	86.6	25.4	97.4	28.5	105.7	31.0	4.2	12.5
		8	(0.50)	75.7	22.2	86.6	25.4	97.4	28.5	107.9	31.6	7.1	21.2
Recommended No. of Outlets				21		24		27		30			

WARNING

To prevent injury or damage from high temperatures, do not install floor outlets when operating in the shaded area. Discharge temperatures in this range can exceed 160°F (71°C)

M Series Chilled Water Cooling Module Performance Data (Heating Mode)

M4860CL1-C				Airflow								Water Pressure Drop	
Entering Water Temp		Water Flow Rate		900CFM (0.43 m^3/s)		1000CFM (0.47 m^3/s)		1100CFM (0.52 m^3/s)		1250CFM (0.59 m^3/s)			
				Total Capacity		Total Capacity		Total Capacity		Total Capacity			
°F	°C	GPM	L/s	MBH	kW	MBH	kW	MBH	kW	MBH	kW	ft. w.g.	kPa
95	(35)	4	(0.25)	20.3	5.9	21.8	6.4	23.1	6.8	24.8	7.3	1.8	5.4
		6	(0.38)	21.9	6.4	23.8	7.0	25.6	7.5	28.1	8.2	3.7	11.1
		8	(0.50)	22.1	6.5	24.5	7.2	26.6	7.8	29.5	8.6	6.2	18.5
		10	(0.63)	22.1	6.5	24.6	7.2	27.0	7.9	30.1	8.8	9.4	28.1
110	(43)	4	(0.25)	33.0	9.7	35.4	10.4	37.5	11.0	40.3	11.8	1.7	5.1
		6	(0.38)	35.1	10.3	38.2	11.2	41.2	12.1	45.2	13.2	3.6	10.8
		8	(0.50)	35.4	10.4	39.3	11.5	42.6	12.5	47.3	13.9	6.1	18.2
		10	(0.63)	35.4	10.4	39.4	11.5	43.2	12.7	48.3	14.2	9.1	27.2
120	(49)	4	(0.25)	41.3	12.1	44.3	13.0	47.0	13.8	50.5	14.8	1.7	5.1
		6	(0.38)	43.9	12.9	47.9	14.0	51.6	15.1	56.6	16.6	3.5	10.5
		8	(0.50)	44.3	13.0	49.1	14.4	53.3	15.6	59.2	17.3	6.0	17.9
		10	(0.63)	44.3	13.0	49.2	14.4	54.1	15.9	60.4	17.7	9.0	26.9
140	(60)	4	(0.25)	58.0	17.0	62.3	18.3	66.1	19.4	71.0	20.8	1.6	4.8
		6	(0.38)	61.6	18.1	67.2	19.7	72.4	21.2	79.5	23.3	3.4	10.2
		8	(0.50)	62.0	18.2	68.9	20.2	74.8	21.9	83.1	24.4	5.8	17.3
		10	(0.63)	62.0	18.2	68.9	20.2	75.7	22.2	84.8	24.9	8.7	26.0
160	(71)	4	(0.25)	74.7	21.9	80.2	23.5	85.2	25.0	91.6	26.8	1.6	4.8
		6	(0.38)	79.3	23.2	86.5	25.4	93.3	27.3	102.5	30.0	3.3	9.9
		8	(0.50)	79.7	23.4	88.5	25.9	96.4	28.3	107.1	31.4	5.6	16.7
		10	(0.63)	79.7	23.4	88.5	25.9	94.7	27.8	109.2	32.0	8.4	25.1
180	(82)	4	(0.25)	91.4	26.8	98.2	28.8	104.3	30.6	112.2	32.9	1.5	4.5
		6	(0.38)	97.1	28.5	106.0	31.1	114.2	33.5	125.5	36.8	3.2	9.6
		8	(0.50)	97.4	28.5	108.2	31.7	117.9	34.6	131.1	38.4	5.4	16.1
		10	(0.63)	97.4	28.5	108.2	31.7	119.0	34.9	133.6	39.2	8.2	24.5
Recommended No. of Outlets				27		30		33		38			

WARNING

To prevent injury or damage from high temperatures, do not install floor outlets when operating in the shaded area. Discharge temperatures in this range can exceed 160°F (71°C)