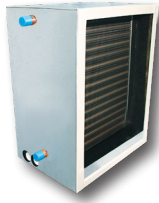


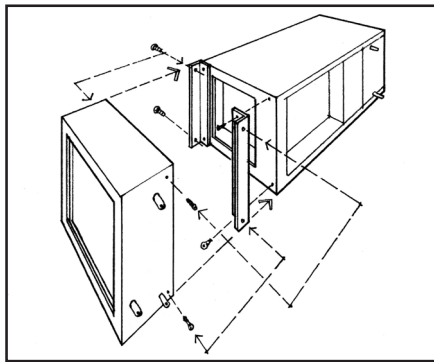
## Chilled Water Coil (WCM/WM)



Our Hydronic Water Coils are approved for use with potable water systems.

The WCM/WM coil is a High Capacity Hydronic Water Coil available as an add-on module to the Hi-Velocity System. Mainly used in the chilled water applications for cooling, this coil can also be used for heating with water temperatures up to 130°F (54°C).

Fig. WCM-01 - Mounting the WCM/WM



## Installation

The coil comes as a module and must be installed in the vertical position on the return air side of the air handler. The WCM/WM come supplied with two L mounting brackets for connection to the air handler (Fig. WCM-01). When mounting the cooling coil, ensure that no screws puncture the drain pan or coil.

## Piping the WCM/WM

The WCM comes complete with 2 built-in 3/4" (19mm) drain lines, primary and secondary. Ensure the primary drain line is P-Trapped and is run at a slope of 1/4" per foot in the direction of the drain.

The use of a mixture of glycol will reduce capacities; refer to glycol manufacture reduction charts.

When the potential for gravity flow of the hot water exists, check valves may be needed on both the supply and return lines. All lines should be piped so as not to restrict access to the front panels, filter section, or electrical enclosure. Size your supply and return lines according to Table WCM-01.

### WCM/WM pipe sizing

Zone BTUH	Pipe Size up to 40 feet	Pipe Size 40 – 100 feet
0 - 35,000 (0 - 10.3 kW)	3/4" (19mm)	3/4" (19mm)
35,001 - 70,000 (10.4 - 20.5 kW)	3/4" (19mm)	1" (25mm)
70,001 - 140,000 (20.6 - 41 kW)	1" (25mm)	1 1/4" (32mm)

Specifications		WCM-50	WCM-70/1050	WCM-100	WM-1750
Part Number		10010201050	10010201070	40090100100	20090101750
Matching Air Handler		HE-Z/HE-B/HE-50/51 HV-50/51/52 CU-51 LV-Z/LV-B-750/751 LV-50	HE-Z/HE-B/HE/HV-70/71 LV-Z/LV-B-1050/1051 LV-70	HE-Z/HE-B/HE-100/101 HV-100/101 LV-Z/LV-B-1050/1051 LV-120/140	HE-P-240/241 LV-Z/LV-B-1750/1751
BTUH 80°/67° @ 42°F E.W.T. (27°/19 @ 5.5°C E.W.T.)		18,000-24,000 (5.3-7.0 kW)	30,000-36,000 (8.8-10.6 kW)	42,000-60,000 (12.3-17.6 kW)	42,000-70,000 (12.3-20.5 kW)
Fin Material		Aluminum	Aluminum	Aluminum	Aluminum
Tubing Material		Copper	Copper	Copper	Copper
Type of Fins		.006 Al (0.1524mm)	.006 Al (0.1524mm)	.006 Al (0.1524mm)	.006 Al (0.1524mm)
GPM Flow Ratings (L/s Flow Ratings)		5 (0.32 L/s)	7 (0.44 L/s)	10 (0.63 L/s)	10 (0.63 L/s)
Hydronic Connection Sizes	Supply Line	3/4" (19mm)	3/4" (19mm)	3/4" (19mm)	1" (25mm)
	Return Line	3/4" (19mm)	3/4" (19mm)	3/4" (19mm)	1" (25mm)
	Drain Connection	3/4" M CPVC (19mm)	3/4" M CPVC (19mm)	3/4" M CPVC (19mm)	3/4" M CPVC (19mm)
Shipping Weight		26 lbs (11.8 kg)	33 lbs (15.0 kg)	44 lbs (20.0 kg)	55 lbs (24.9 kg)
Coil Module Dimensions (L x W x H)		14 3/8" x 10 1/8" x 18 1/2" (365mm x 257mm x 470mm)	19 3/8" x 10 1/8" x 18 1/2" (492mm x 257mm x 470mm)	25 3/8" x 10 1/8" x 18 1/2" (645mm x 257mm x 470mm)	26 1/4" x 8 1/4" x 22 5/8" (656mm x 209mm x 575mm)

BTUH - British Thermal Units per Hour  
EWT - Entering Water Temperature  
GPM - US Gallons per Minute