

VW2 Coil Performance

Technical Data Sheet

Chilled Water Coil Cooling Capacities

MULTIPOSITION CHILLED WATER AIR HANDLER MODEL	ENTERING AIR DB / WB / WATER TEMPERATURE				CFM	Water GPM	PRESS. DROP WATER (FT. WTR)	PRESS. DROP AIR (WC)
	80°F / 67°F / 45°F		80°F / 67°F / 42°F					
	TOTAL	SENSIBLE	TOTAL	SENSIBLE				
24	19,800	13,860	21,700	15,190	600	3.0	3.7	0.14"
	22,400	15,680	24,900	17,430		4.0	6.3	
	24,400	17,080	28,600	20,020		6.0	13	
36	28,500	19,950	31,300	21,910	900	4.0	5.3	0.23"
	34,200	23,940	37,500	26,250		6.0	11.3	
	36,100	25,270	39,500	27,650		7.0	14.8	
48	35,625	24,938	39,125	27,388	1,200	7.0	6.1	0.24"
	42,750	29,925	46,875	32,813		8.0	12.9	
	45,125	31,588	49,375	34,563		10.0	17	
60	44,531	31,172	48,906	34,234	1,500	9.0	7	0.19"
	53,438	37,406	58,594	41,016		11.0	14.8	
	56,406	39,484	61,719	43,203		12.0	19.3	

Chilled Water Coil Heating Capacities

CHILLED WATER COIL VC2 SERIES	HOT WATER CAPACITIES @ 70°F ENTERING AIR TEMPERATURE				CFM	GPM	PRESS. DROP WATER (FT of WTR)	PRESS. DROP AIR (WC)
	ENTERING WATER TEMPERATURE							
	140°F	160°F	170°F	180°F				
24	35,450	42,829	47,383	51,979	600	3.0	1.9	0.22"
	38,087	46,034	50,923	55,846		4.5	3.9	
	39,317	47,572	52,615	57,650		6.0	6.8	
36	57,046	68,863	76,300	83,645	900	4.0	2.3	0.20"
	62,713	75,749	83,921	91,955		6.0	4.8	
	65,657	70,148	87,777	96,270		8.0	8.4	
48	70,366	100,571	111,379	122,187	1,200	6.0	5.7	0.22
	89,933	108,601	120,234	131,867		8.0	9.8	
	94,113	113,680	125,829	137,996		10.0	13.2	
60	74,847	106,976	118,472	129,968	1,500	7.0	2.8	0.19"
	95,660	115,517	127,891	140,264		10.0	4.6	
	100,107	120,919	133,842	146,783		13.0	6.9	

Chilled Water Coil Air Pressure Drop

Air Flow Rate, CFM	ΔP, Inches Water			
	VW2-1824	VW2-3036	VW2-4248	VW2-4860
450	0.07			
600	0.12			
800	0.2			
900		0.08	0.11	
1000		0.1	0.13	
1200		0.15	0.19	
1400			0.22	
1500			0.26	0.2
1600			0.3	0.25
2000				0.3

Water Pressure Drop

Model VW2-1824			
GPM	3.0	4.5	6.0
PSI	1.73	3.52	5.91
Model VW2-3036			
GPM	4.0	6.0	8.0
PSI	0.33	0.69	1.11
Model VW2-4248			
GPM	6.0	8.0	10.0
PSI	0.94	1.50	2.26
Model VW2-0060			
GPM	7.0	10.0	13.0
PSI	0.290	0.540	0.840