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EVT-120

**HOT WATER COIL
TOTAL UNIT HEATING CAPACITY**

EVT-120

EVT-120 TOTAL UNIT HEATING CAPACITY -- HOT WATER COIL																											
AIR VOLUME (cfm)	WINTER APPLICATION RATINGS - ENTHALPY WHEEL						PERFORMANCE RATINGS - HOT WATER COIL										UNIT PERFORMANCE										
	OA CONDITIONS			RA CONDITIONS			EFFECTIVENESS		AIR-LVG WHL / ENT HWC		HEATING CAP--ENTHALPY WHEEL				FLUID DATA				LEAVING AIR DATA		COOLING CAP--HW COIL				COMBINED HEATING CAP		
	DB (deg F)	RH (%)	WB (deg F)	DB (deg F)	WB (deg F)		LATENT (%)	SENS (%)	DB (deg F)	WB (deg F)	SENS (Btuh)	LATENT (Btuh)	TOTAL (Btuh)	S/T	FR (gpm)	VEL (ft/sec)	ENT TEMP (deg F)	PR DROP (fwc)	LVG TEMP (deg F)	DB (deg F)	WB (deg F)	TOTAL (Btuh)	SENS (Btuh)	S/T	TOTAL (Btuh)	SENS (Btuh)	S/T
8000	-10	30	14.8	72.0	54.0	68.4	74.7	49.47	40.30	525,112	123,570	648,682	0.81	24	2.02	120	1.61	102.9	72.9	51.4	203,491	203,491	1.00	852,173	728,603	0.855	
																160	1.53	132.8	86.6	57.0	322,406	322,406	1.00	971,088	847,518	0.873	
																200	1.46	162.4	100.5	62.1	442,659	442,659	1.00	1,091,341	967,771	0.887	
														48	4.04	120	5.64	110.5	75.5	52.5	225,592	225,592	1.00	874,274	750,704	0.859	
																160	5.35	144.9	90.5	58.5	356,172	356,172	1.00	1,004,854	881,284	0.877	
																200	5.12	179.2	105.7	63.9	487,645	487,645	1.00	1,136,327	1,012,757	0.891	
			72	6.06	120	11.89	113.4	76.4	52.9	233,950	233,950	1.00	882,632	759,062	0.860												
			160	11.30	149.6	92.0	59.1	368,714	368,714	1.00	1,017,396	893,826	0.879														
			200	10.84	185.6	107.6	64.6	504,158	504,158	1.00	1,152,840	1,029,270	0.893														
			24	2.02	120	1.60	105.0	78.8	54.3	178,582	178,582	1.00	622,618	509,993	0.819												
			160	1.52	134.9	92.4	59.5	297,278	297,278	1.00	741,314	628,689	0.848														
			200	1.45	164.5	106.3	64.4	417,347	417,347	1.00	861,383	748,758	0.869														
	20	30	14.8	72.0	68.1	74.4	58.18	45.09	331,411	112,625	444,036	0.75	48	4.04	120	5.62	111.7	81.0	55.1	197,802	197,802	1.00	641,838	529,213	0.825		
														160	5.34	146.1	96.0	60.8	328,188	328,188	1.00	772,224	659,599	0.854			
														200	5.11	180.4	111.1	66.0	459,514	459,514	1.00	903,550	790,925	0.875			
														72	6.06	120	11.85	114.2	81.8	55.5	205,094	205,094	1.00	649,130	536,505	0.826	
														160	11.28	150.4	97.3	61.3	339,699	339,699	1.00	783,735	671,110	0.856			
														200	10.82	186.4	112.9	66.5	475,028	475,028	1.00	919,064	806,439	0.877			
	50		38.4		67.8	74.0	66.34	50.08	139,573	66,398	205,971	0.68	24	2.02	120	1.59	107.0	84.2	57.4	155,185	155,185	1.00	361,156	294,758	0.816		
														160	4.51	136.9	97.9	62.4	273,687	273,687	1.00	479,658	413,260	0.862			
														200	1.45	166.5	111.7	67.0	393,593	393,593	1.00	599,564	533,166	0.889			
														48	4.04	120	5.62	112.8	86.1	58.1	171,749	171,749	1.00	377,720	311,322	0.824	
														160	5.33	147.2	101.1	63.5	301,957	301,957	1.00	507,928	441,530	0.869			
														200	5.10	181.5	116.3	68.4	433,150	433,150	1.00	639,121	572,723	0.896			

NOTES: 1. Return air conditions are constant at 72.0 db and 54.0 wb. 2. Outdoor air relative humidity is constant at 30%. 3. Enthalpy Wheel leaving temperatures do not include the effect of Pre-Heater (optional) for frost control. 4. All data based on balanced system (Exhaust cfm = Supply cfm). 5. Coil face area is 20.17 sq. ft.