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**HOT WATER COIL
TOTAL UNIT HEATING CAPACITY**

EVT-074 **EVT-074**

EVT-074 TOTAL UNIT HEATING CAPACITY -- HOT WATER COIL																												
WINTER APPLICATION RATINGS - ENTHALPY WHEEL														PERFORMANCE RATINGS - HOT WATER COIL														
AIR VOLUME (cfm)	OA CONDITIONS			RA CONDITIONS		EFFECTIVENESS		AIR-LVG WHL / ENT HWC		HEATING CAP-ENTHALPY WHEEL			S/T	FLUID DATA					LEAVING AIR DATA				COOLING CAP--HW COIL			UNIT PERFORMANCE		
	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)		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		
5400	-10	30	14.8	72.0	54.0	66.4	73.2	48.41	39.56	347,214	80,969	428,183	0.81	20	1.99	120	1.55	106.3	71.7	50.7	136,272	136,272	1.00	664,455	483,486	0.857		
														160	1.47	138.2	85.1	56.3	214,635	214,635	1.00	642,818	561,849	0.874				
														200	1.41	170.0	98.6	61.3	293,806	293,806	1.00	721,989	641,020	0.888				
														40	3.98	120	5.52	112.5	73.7	51.6	148,281	148,281	1.00	576,464	495,495	0.860		
														160	5.26	148.2	88.1	57.5	232,709	232,709	1.00	660,892	579,923	0.877				
														200	5.05	183.7	102.7	62.8	317,660	317,660	1.00	745,843	664,874	0.891				
	60	5.97	120	11.73	114.9	74.5	52.0	152,778	152,778	1.00	580,961	499,992	0.861															
	160	11.20	151.9	89.3	57.9	239,367	239,367	1.00	667,550	586,581	0.879																	
	200	10.79	188.8	104.1	63.3	326,349	326,349	1.00	754,532	673,563	0.893																	
	20	1.99	120	1.55	108.0	77.8	53.7	119,041	119,041	1.00	411,919	338,123	0.821															
	160	1.47	140.0	91.2	60.0	197,248	197,248	1.00	490,126	416,330	0.849																	
	200	1.41	171.8	104.7	63.8	276,294	276,294	1.00	569,172	495,376	0.870																	
40	3.98	120	5.51	113.5	79.6	54.5	129,446	129,446	1.00	422,324	348,528	0.825																
160	5.25	149.1	94.0	60.0	213,752	213,752	1.00	506,630	432,834	0.854																		
200	5.05	184.7	108.5	65.0	298,611	298,611	1.00	591,489	517,693	0.875																		
60	5.97	120	11.71	115.5	80.3	54.7	133,354	133,354	1.00	426,232	352,436	0.827																
160	11.18	152.5	95.1	60.4	219,845	219,845	1.00	512,723	438,927	0.856																		
200	10.78	189.5	109.9	65.5	306,758	306,758	1.00	599,636	525,840	0.877																		
20	1.99	120	1.54	109.6	83.6	57.1	102,857	102,857	1.00	238,608	195,101	0.818																
160	1.47	141.6	97.0	62.1	180,925	180,925	1.00	316,676	273,169	0.863																		
200	1.41	173.4	110.4	66.5	259,859	259,859	1.00	352,103	0.890																			
40	3.98	120	5.51	114.4	85.1	57.7	111,780	111,780	1.00	247,531	204,024	0.824																
160	5.25	150.0	99.5	62.9	195,973	195,973	1.00	331,724	288,217	0.869																		
200	5.04	185.6	114.0	67.7	280,749	280,749	1.00	416,500	372,993	0.896																		
60	5.97	120	11.69	116.1	85.7	57.9	115,140	115,140	1.00	250,891	207,384	0.827																
160	11.18	153.2	100.5	63.3	201,541	201,541	1.00	337,292	293,785	0.871																		
200	10.76	190.1	115.3	68.1	288,388	288,388	1.00	424,139	380,632	0.897																		
6400	-10	30	14.8	72.0	54.0	62.1	69.8	45.37	37.41	392,211	89,468	481,679	0.81	20	1.99	120	1.56	104.3	67.8	48.6	156,004	156,004	1.00	637,683	548,215	0.860		
														160	1.49	135.5	80.3	54.0	242,345	242,345	1.00	724,024	634,556	0.876				
														200	1.43	166.4	92.9	58.9	329,670	329,670	1.00	811,349	721,881	0.890				
														40	3.98	120	5.54	111.3	70.1	49.6	171,695	171,695	1.00	463,374	383,906	0.863		
														160	5.28	146.5	83.7	55.4	265,721	265,721	1.00	747,400	657,932	0.880				
														200	5.07	181.5	97.3	60.5	360,389	360,389	1.00	842,068	752,600	0.894				
	60	5.97	120	11.73	114.0	71.0	50.0	177,612	177,612	1.00	469,291	395,823	0.864															
	160	11.22	150.7	84.9	55.8	274,375	274,375	1.00	756,054	666,586	0.882																	
	200	10.80	187.3	98.9	61.1	371,624	371,624	1.00	853,303	763,835	0.895																	
	20	1.99	120	1.55	106.4	75.0	50.2	134,748	134,748	1.00	463,623	382,084	0.824															
	160	1.48	137.6	87.5	57.2	220,891	220,891	1.00	549,766	468,227	0.852																	
	200	1.42	168.8	100.0	61.8	308,052	308,052	1.00	636,927	555,388	0.872																	
40	3.98	120	5.52	112.5	77.0	53.0	148,150	148,150	1.00	477,025	395,486	0.829																
160	5.27	147.7	90.5	58.4	242,007	242,007	1.00	570,882	489,343	0.857																		
200	5.07	182.7	104.1	63.2	336,548	336,548	1.00	665,423	583,884	0.877																		
60	5.97	120	11.73	114.8	77.7	53.3	153,224	153,224	1.00	482,099	400,560	0.831																
160	11.22	151.5	91.6	58.8	249,852	249,852	1.00	578,727	497,188	0.859																		
200	10.80	188.1	105.6	63.8	347,001	347,001	1.00	675,876	594,337	0.879																		
20	1.99	120	1.55	108.4	81.8	56.2	114,696	114,696	1.00	266,851	218,778	0.820																
160	1.47	139.7	94.2	60.9	200,664	200,664	1.00	352,819	304,746	0.864																		
200	1.42	170.6	106.7	65.2	287,679	287,679	1.00	439,834	391,761	0.891																		
40	3.98	120	5.51	113.6	83.4	58.9	125,987	125,987	1.00	278,142	230,069	0.827																
160	5.26	148.8	96.9	61.9	219,690	219,690	1.00	371,845	323,772	0.871																		
200	5.06	183.9	110.5	66.4	314,115	314,115	1.00	466,270	418,197	0.897																		
60	5.97	120	11.73	115.6	84.0	57.1	130,277	130,277	1.00	282,432	234,359	0.830																
160	11.20	152.3	98.0	62.2	226,779	226,779	1.00	378,934	330,861	0.873																		
200	10.80	188.9	111.9	68.9	323,837	323,837	1.00	475,992	427,919	0.899																		
7400	-10	30	14.8	72.0	54.0	57.6	66.3	42.35	35.20	431,015	95,908	526,923	0.82	20	1.99	120	1.58	102.4	64.2	48.5	175,159	175,159	1.00	702,082	606,174	0.863		
														160	1.50	132.8	75.8	51.7	268,612	268,612	1.00	795,535	699,627	0.879				
														200	1.44	163.1	87.6	58.5	363,218	363,218	1.00	890,141	794,233	0.892				
														40	3.98	120	5.56	110.2	66.6	47.6	194,900	194,900	1.00	721,823	625,915	0.867		
														160	5.30	144.9	79.5	53.3	297,746	297,746	1.00	824,669	728,761	0.884				
														200	5.09	179.5	92.4	56.4	401,356	401,356	1.00	928,279	832,371	0.897				
	60	5.97	120	11.77	113.2	67.6	56.5	202,387	202,387	1.00	729,310	633,402	0.868															
	160	11.25	149.5	80.8	53.8	308,577	308,577	1.00	835,500	739,592	0.885																	
	200	10.84	185.8	94.1	59.0	415,343	415,343	1.00	942,266	846,358	0.898																	
	20	1.99	120	1.56	104.9	72.4	50.7	149,753	149,753	1.00	508,811	421,408	0.828															
	160	1.49	135.4	84.0	55.5	242,969	242,969	1.00	602,027	514,624	0.855																	
	200	1.44	165.7	95.8	60.0	337,374	337,374	1.00	696,432	609,029	0.874																	
40	3.98	120	5.54	111.6	74.5	51.6	166,382	166,382	1.00	525,440	438,037	0.834																
160	5.28	146.3	87.3	56.8	269,008	269,008	1.00	628,066	540,663	0.861																		
200	5.08	180.9	100.2	61.6	372,449	372,449	1.00	731,507	644,104	0.881																		
60	5.97	120	11.75	114.2	75.3	51.9	172,722	172,722	1.00	531,780	444,377	0.836																
160	11.22	150.5	88.5	57.3	278,731	278,731	1.00	637,789	550,386	0.863																		
200	10.82	186.8	101.8	62.2	385,365	385,365	1.00	744,423	657,020	0.883																		
20	1.99	120	1.55	107.3	80.2	55.4	125,688	125,688	1.00	291,471	239,940	0.823																
160	1.49	137.8	91.8	59.9	218,700	218,700	1.00	384,483	332,952	0.866																		
200	1.43	168.1	103.5	63.9	312,930	312,930	1.00	478,713	427,182	0.892																		
40	3.98	120	5.52	113.0	81.9	58.1	139,459	139,459	1.00	305,242	253,711	0.831																
160	5.27	147.7	94.8	60.9	241,884	241,884	1.00	407,667	356,136	0.874																		
200	5.07	182.3	107.5	65.3	345,172	345,172	1.00	510,955	459,424	0.899																		
60	5.97	120	11.73	115.1	82.5	56.3	144,732	144,732	1.00	310,515	258,984	0.834																
160	11.22	151.5	95.7	61.2	250,576	250,576	1.00	416,359	364,828	0.876																		
200	10.80	187.8	109.0	65.8	357,087	357,087	1.00	522,870	471,339	0.901																		

EVT-088

**HOT WATER COIL
TOTAL UNIT HEATING CAPACITY**

EVT-088

EVT-088 TOTAL UNIT HEATING CAPACITY -- HOT WATER COIL																												
WINTER APPLICATION RATINGS - ENTHALPY WHEEL														PERFORMANCE RATINGS - HOT WATER COIL														
AIR VOLUME (cfm)	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		
6400	-10	30	-11.5	72.0	54.0	66.5	73.2	48.21	39.43	411,477	95,948	507,425	0.81	20	1.99	120	1.56	103.8	71.4	50.6	160,805	160,805	1.00	668,230	572,282	0.856		
																160	1.49	134.3	84.7	56.1	253,431	253,431	1.00	760,856	664,908	0.874		
																200	1.42	164.6	96.2	60.5	347,202	347,202	1.00	854,627	758,679	0.888		
																120	5.33	111.0	73.9	51.7	178,118	178,118	1.00	685,543	589,595	0.860		
																160	5.28	145.8	88.5	57.6	279,621	279,621	1.00	787,046	691,098	0.878		
																200	5.07	180.4	103.2	62.9	381,888	381,888	1.00	889,313	793,365	0.892		
	20	30	14.8	72.0	54.0	66.1	72.8	57.40	44.53	259,624	87,446	347,070	0.75	20	1.99	120	1.55	105.8	77.6	53.6	140,410	140,410	1.00	487,480	400,034	0.821		
																160	1.48	136.4	90.9	58.8	232,835	232,835	1.00	579,905	492,459	0.849		
																200	1.42	166.7	104.4	63.6	326,440	326,440	1.00	673,510	586,064	0.870		
																120	5.52	112.2	79.8	54.5	155,377	155,377	1.00	502,447	415,001	0.826		
																160	5.27	146.9	94.4	60.1	256,705	256,705	1.00	603,775	516,329	0.855		
																200	5.07	181.6	109.1	65.2	358,841	358,841	1.00	705,911	618,465	0.876		
50	30	38.4	72.0	54.0	65.8	72.5	66.01	49.84	109,311	51,553	160,864	0.68	20	1.99	120	11.73	113.8	74.8	52.1	184,695	184,695	1.00	692,120	596,172	0.861			
															160	11.22	150.2	89.9	58.1	289,383	289,383	1.00	796,808	700,860	0.880			
															200	10.80	186.5	105.1	63.6	394,652	394,652	1.00	902,077	806,129	0.894			
															120	5.52	112.2	79.8	54.5	155,377	155,377	1.00	502,447	415,001	0.826			
															160	5.27	146.9	94.4	60.1	256,705	256,705	1.00	603,775	516,329	0.855			
															200	5.07	181.6	109.1	65.2	358,841	358,841	1.00	705,911	618,465	0.876			
7600	-10	30	-11.5	72.0	54.0	62.0	69.7	45.12	37.24	465,332	106,102	571,434	0.81	20	1.99	120	1.58	101.6	67.3	48.3	182,474	182,474	1.00	753,908	647,806	0.859		
																160	1.50	131.3	79.5	53.6	283,617	283,617	1.00	855,051	748,949	0.876		
																200	1.44	160.7	92.0	58.6	386,027	386,027	1.00	957,461	851,359	0.889		
																120	5.56	109.7	70.0	49.6	204,841	204,841	1.00	776,275	670,173	0.863		
																160	5.30	143.9	83.6	55.3	317,086	317,086	1.00	888,520	782,418	0.881		
																200	5.09	178.0	97.3	60.5	430,259	430,259	1.00	1,001,693	895,591	0.894		
	20	30	14.8	72.0	54.0	61.6	69.3	55.48	43.16	293,437	96,694	390,131	0.75	20	1.99	120	11.77	112.8	71.0	50.0	213,406	213,406	1.00	784,840	678,738	0.865		
																160	11.26	148.8	85.1	55.9	329,653	329,653	1.00	901,087	794,985	0.882		
																200	10.84	184.7	99.3	61.2	446,608	446,608	1.00	1,018,042	911,940	0.896		
																120	5.56	104.1	74.6	61.6	157,556	157,556	1.00	547,687	450,993	0.823		
																160	5.29	133.8	86.8	58.9	258,410	258,410	1.00	648,541	551,847	0.851		
																200	5.08	163.3	99.2	61.5	360,663	360,663	1.00	750,794	654,100	0.871		
50	30	38.4	72.0	54.0	61.3	69.0	65.22	49.26	123,478	57,005	180,483	0.68	20	1.99	120	11.73	113.8	77.8	53.3	183,932	183,932	1.00	774,063	677,369	0.832			
															160	11.22	149.8	91.9	58.9	299,985	299,985	1.00	901,116	793,422	0.860			
															200	10.82	185.7	106.0	63.9	416,796	416,796	1.00	1,006,927	900,233	0.880			
															120	5.56	106.5	81.5	56.1	134,023	134,023	1.00	314,506	257,501	0.819			
															160	5.28	136.2	93.7	60.7	234,670	234,670	1.00	415,153	358,148	0.863			
															200	5.08	165.7	106.1	65.0	336,743	336,743	1.00	517,226	460,221	0.890			
8800	-10	30	-11.5	72.0	54.0	57.4	66.2	42.06	34.99	511,585	113,729	625,314	0.82	20	1.99	120	1.59	99.6	63.3	46.0	203,126	203,126	1.00	828,440	714,711	0.863		
																160	1.52	128.5	74.7	51.2	311,532	311,532	1.00	936,846	823,117	0.879		
																200	1.46	156.1	86.9	56.2	427,809	427,809	1.00	1,053,123	939,394	0.892		
																120	5.57	108.4	66.3	47.4	230,968	230,968	1.00	856,282	742,553	0.867		
																160	5.32	142.1	79.0	53.0	352,903	352,903	1.00	978,217	864,488	0.884		
																200	5.12	175.7	91.9	58.2	475,929	475,929	1.00	1,101,243	987,514	0.897		
	20	30	14.8	72.0	54.0	57.1	65.8	53.56	41.75	322,419	103,638	426,057	0.76	20	1.99	120	11.80	111.9	67.4	47.9	241,698	241,698	1.00	867,012	753,283	0.869		
																160	11.28	147.5	80.7	53.7	368,478	368,478	1.00	993,792	880,063	0.886		
																200	10.87	183.0	94.0	58.9	496,092	496,092	1.00	1,121,406	1,007,677	0.899		
																120	5.58	102.5	71.8	50.4	173,629	173,629	1.00	599,686	496,048	0.827		
																160	5.51	131.5	83.1	55.1	281,776	281,776	1.00	707,833	604,195	0.854		
																200	5.45	159.3	95.2	59.8	396,761	396,761	1.00	822,818	719,180	0.874		
50	30	38.4	72.0	54.0	56.7	65.4	64.42	48.67	125,594	61,099	186,693	0.67	20	1.99	120	5.56	110.1	74.2	51.4	196,995	196,995	1.00	623,052	519,414	0.834			
															160	5.30	143.8	87.0	56.7	318,628	318,628	1.00	744,685	641,047	0.861			
															200	5.10	177.4	99.8	61.4	441,420	441,420	1.00	867,477	763,839	0.881			
															120	11.77	113.1	75.2	51.9	206,056	206,056	1.00	632,113	528,475	0.836			
															160	11.26	148.7	88.4	57.2	332,582	332,582	1.00	758,639	655,001	0.863			
															200	10.84	184.3	101.8	62.1	460,005	460,005	1.00	886,062	782,424	0.883			
50	30	38.4	72.0	54.0	56.7	65.4	64.42	48.67	125,594	61,099	186,693	0.67	20	1.99	120	1.56	105.3	79.7	55.2	145,687	145,687	1.00	332,380	271,281	0.816			
															160	1.50	134.3	91.0	59.5	253,617	253,617	1.00	440,310	379,211	0.861			
															200	1.44	163.1	102.5	63.6	363,157	363,157	1.00	549,850	488,751	0.889			
															120	5.54	111.7	81.7	56.0	164,972	164,972	1.00	351,665	290,566	0.826			
															160	5.29	145.5	94.4	60.8	286,335	286,335	1.00	473,028	411,929	0.871			
															200	5.09	179.1	107.3	65.2	408,915	408,915	1.00	595,608	534,509	0.897			
50	30	38.4	72.0	54.0	56.7	65.4	64.42	48.67	125,594	61,099	186,693	0.67	20	1.99	120	11.75	114.2	82.5	56.3	172,491	172,491	1.00	359,184	298,085	0.830			
															160	11.25	149.9	95.7	61.2	298,785	298,785	1.00	485,478	424,379	0.874			
															200	10.84	185.4	109.1	65.8	426,034	426,034	1.00	612,727	551,628	0.900			
															120	5.54	111.7	81.7	56.0	164,972	164,972	1.00	351,665	290,566	0.826			
															160	5.29	145.5	94.4	60.8	286,335	286,335	1.00	473,028	411,929	0.871			
															200	5.09	179.1	107.3	65.2	408,915	408,915	1.00	595,608	534,509	0.897			

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 14.72 sq. ft.