



3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

**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	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	20	1.99	120	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	40	3.98	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	200	5.97	120	11.73	114.9	74.5	52.0	152,778	152,778	1.00	580,961	499,992	0.861	200	5.97	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	200	1.99	120	1.55	108.0	77.8	53.7	119,041	119,041	1.00	411,919	338,123	0.821	200	1.99	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	200	3.98	120	5.51	113.5	79.6	54.5	129,446	129,446	1.00	422,324	348,528	0.825	200	3.98	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	200	5.97	120	11.71	115.5	80.3	54.7	133,354	133,354	1.00	426,232	352,436	0.827	200	5.97	160	11.18	152.5	95.1	60.4	219,845	219,845	1.00	512,723	438,927	0.856
	20	30	14.8	72.0	54.0	66.1	72.8	57.52	44.62	219,082	73,796	292,878	0.75	20	1.99	120	1.55	108.0	77.8	53.7	119,041	119,041	1.00	411,919	338,123	0.821	20	1.99	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	200	3.98	120	5.51	113.5	79.6	54.5	129,446	129,446	1.00	422,324	348,528	0.825	200	3.98	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	200	5.97	120	11.71	115.5	80.3	54.7	133,354	133,354	1.00	426,232	352,436	0.827	200	5.97	160	11.18	152.5	95.1	60.4	219,845	219,845	1.00	512,723	438,927	0.856
														200	10.79	188.8	104.1	63.3	326,349	326,349	1.00	754,532	673,563	0.893	200	1.99	120	1.54	109.6	83.6	57.1	102,857	102,857	1.00	238,608	195,101	0.818	200	1.99	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	289,890	0.890	200	3.98	120	5.51	114.4	85.1	57.7	111,780	111,780	1.00	247,531	204,024	0.824	200	3.98	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	200	5.97	120	11.69	116.1	85.7	57.9	115,140	115,140	1.00	250,891	207,384	0.827	200	5.97	160	11.18	153.2	100.5	63.3	201,541	201,541	1.00	337,292	293,785	0.871
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	20	1.99	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	200	3.98	120	5.54	111.3	70.1	49.6	171,695	171,695	1.00	653,374	563,906	0.863	200	3.98	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	200	5.97	120	11.73	114.0	71.0	50.0	177,612	177,612	1.00	659,291	569,823	0.864	200	5.97	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	108.3	61.1	371,624	371,624	1.00	853,303	763,835	0.895	200	1.99	120	1.55	106.4	75.0	50.2	134,748	134,748	1.00	463,623	382,084	0.824	200	1.99	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	200	3.98	120	5.52	112.5	77.0	53.0	148,150	148,150	1.00	477,025	395,486	0.829	200	3.98	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	655,423	583,884	0.877	200	5.97	120	11.73	114.8	77.7	53.3	153,224	153,224	1.00	482,099	400,560	0.831	200	5.97	160	11.22	151.5	91.6	58.8	249,852	249,852	1.00	578,727	497,188	0.859
	20	30	14.8	72.0	54.0	61.7	69.4	55.63	43.26	247,336	81,539	328,875	0.75	20	1.99	120	1.55	106.4	75.0	50.2	134,748	134,748	1.00	463,623	382,084	0.824	20	1.99	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	200	3.98	120	5.52	112.5	77.0	53.0	148,150	148,150	1.00	477,025	395,486	0.829	200	3.98	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	655,423	583,884	0.877	200	5.97	120	11.73	114.8	77.7	53.3	153,224	153,224	1.00	482,099	400,560	0.831	200	5.97	160	11.22	151.5	91.6	58.8	249,852	249,852	1.00	578,727	497,188	0.859
														200	10.80	188.9	111.9	68.9	323,837	323,837	1.00	475,992	427,919	0.899	200	1.99	120	1.55	108.4	81.8	56.2	114,696	114,696	1.00	266,851	218,778	0.820	200	1.99	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	200	3.98	120	5.51	113.6	83.4	58.9	125,987	125,987	1.00	278,142	230,069	0.827	200	3.98	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	200	5.97	120	11.73	115.6	84.0	57.1	130,277	130,277	1.00	282,432	234,359	0.830	200	5.97	160	11.20	152.3	98.0	62.2	226,779	226,779	1.00	378,934	330,861	0.873
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	20	1.99	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	200	3.98	120	5.56	110.2	66.6	47.6	194,900	194,900	1.00	721,823	625,915	0.867	200	3.98	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	200	5.97	120	11.77	113.2	67.6	56.5	202,387	202,387	1.00	729,310	633,402	0.868	200	5.97	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																														

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				
														40	3.98	120	5.53	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				
	60	5.97	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																	
	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																	
40	3.98	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																		
60	5.97	120	11.73	114.6	80.6	54.8	161,081	161,081	1.00	508,151	420,705	0.828																
160	11.22	151.0	95.7	60.6	265,628	265,628	1.00	612,698	525,252	0.857																		
200	10.80	187.3	110.8	65.8	370,794	370,794	1.00	717,864	630,418	0.878																		
20	1.99	120	1.55	107.8	83.5	57.1	121,247	121,247	1.00	282,111	230,558	0.817																
160	1.47	138.3	96.8	62.0	213,495	213,495	1.00	374,359	322,806	0.862																		
200	1.42	168.7	110.2	66.5	306,952	306,952	1.00	467,816	416,263	0.890																		
40	3.98	120	5.51	113.2	85.3	57.8	134,054	134,054	1.00	294,918	243,365	0.825																
160	5.26	148.0	99.9	63.0	235,224	235,224	1.00	396,088	344,535	0.870																		
200	5.06	182.7	114.6	67.9	337,239	337,239	1.00	498,103	446,550	0.897																		
60	5.97	120	11.71	115.3	86.0	58.0	138,950	138,950	1.00	299,814	248,261	0.828																
160	11.20	151.7	101.1	63.5	243,367	243,367	1.00	404,231	352,678	0.872																		
200	10.80	188.1	116.2	68.3	348,437	348,437	1.00	509,301	457,748	0.899																		
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				
														40	3.98	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				
	60	5.97	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																	
	20	1.99	120	1.56	104.1	74.6	61.6	157,556	157,556	1.00	547,687	450,993	0.823															
	160	1.49	133.8	86.8	58.9	258,410	258,410	1.00	648,541	551,847	0.851																	
	200	1.44	163.3	99.2	61.5	360,663	360,663	1.00	750,794	654,100	0.871																	
40	3.98	120	5.54	111.1	76.9	52.9	176,603	176,603	1.00	566,734	470,040	0.829																
160	5.29	145.3	90.5	58.3	288,613	288,613	1.00	678,744	582,050	0.858																		
200	5.08	179.4	104.2	63.3	401,607	401,607	1.00	791,738	695,044	0.878																		
60	5.97	120	11.75	113.8	77.8	53.3	183,932	183,932	1.00	574,063	477,369	0.832																
160	11.22	149.8	91.9	58.9	299,985	299,985	1.00	690,116	593,422	0.860																		
200	10.82	185.7	106.0	63.9	416,796	416,796	1.00	806,927	710,233	0.880																		
20	1.99	120	1.56	106.5	81.5	56.1	134,023	134,023	1.00	314,506	257,501	0.819																
160	1.49	136.2	93.7	60.7	234,670	234,670	1.00	415,153	358,148	0.863																		
200	1.43	165.7	106.1	65.0	336,743	336,743	1.00	517,226	460,221	0.890																		
40	3.98	120	5.53	112.4	83.4	56.8	150,024	150,024	1.00	330,507	273,502	0.828																
160	5.28	146.7	97.0	61.9	261,821	261,821	1.00	442,304	385,299	0.871																		
200	5.08	180.8	110.7	66.5	374,650	374,650	1.00	555,133	498,128	0.897																		
60	5.97	120	11.73	114.7	84.2	57.2	156,206	156,206	1.00	336,689	279,684	0.831																
160	11.22	150.8	98.2	62.3	272,081	272,081	1.00	452,564	395,559	0.874																		
200	10.80	186.7	112.4	67.0	388,759	388,759	1.00	569,242	512,237	0.900																		
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				
														40	3.98	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				
	60	5.97	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																	
	20	1.99	120	1.58	102.5	71.8	50.4	173,629	173,629	1.00	599,686	496,048	0.827															
	160	1.51	131.5	83.1	55.1	281,776	281,776	1.00	707,833	604,195	0.854																	
	200	1.45	159.3	95.2	59.8	396,761	396,761	1.00	822,818	719,180	0.874																	
40	3.98	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																		
60	5.97	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																		
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																		
40	3.98	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																		
60	5.97	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																							