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**HOT WATER COIL
TOTAL UNIT HEATING CAPACITY**

EVT-028 **EVT-028**

EVT-028 TOTAL UNIT HEATING CAPACITY -- HOT WATER COIL																															
WINTER APPLICATION RATINGS - ENTHALPY WHEEL														PERFORMANCE RATINGS - HOT WATER COIL								UNIT PERFORMANCE									
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					
1600	-10	30	14.8	72.0	54.0	72.2	77.7	52.44	42.31	109,116	26,097	135,213	0.81	10	1.88	120	1.56	110.8	78.8	54.3	45,785	45,785	1.00	180,998	154,901	0.856					
														160	1.49	145.0	94.8	60.4	73,515	73,515	1.00	208,728	182,631	0.875							
														200	1.43	179.2	110.9	85.9	101,471	101,471	1.00	236,684	210,587	0.890							
														20	3.75	120	5.65	115.1	80.4	54.9	48,548	48,548	1.00	183,761	157,664	0.858					
														160	5.41	152.1	97.2	61.3	77,703	77,703	1.00	212,916	186,819	0.877							
														200	5.22	189.0	114.1	67.0	106,999	106,999	1.00	242,212	216,115	0.892							
	30	5.63	120	12.09	116.7	81.0	55.2	49,568	49,568	1.00	184,781	158,684	0.859																		
	160	11.63	154.6	98.1	61.6	79,227	79,227	1.00	214,440	188,343	0.878																				
	200	11.24	192.5	115.3	67.3	108,992	108,992	1.00	244,205	218,108	0.893																				
	10	1.88	120	1.56	111.8	83.4	56.4	40,668	40,668	1.00	133,353	109,567	0.822																		
	160	1.49	146.1	99.4	62.3	68,357	68,357	1.00	161,042	137,256	0.852																				
	200	1.43	180.3	115.5	67.6	96,282	96,282	1.00	188,967	165,181	0.874																				
20	3.75	120	5.65	115.6	84.9	57.0	43,113	43,113	1.00	135,798	112,012	0.825																			
160	5.41	152.6	101.6	63.1	72,239	72,239	1.00	164,924	141,138	0.856																					
200	5.22	189.8	118.5	68.6	101,515	101,515	1.00	194,200	170,414	0.878																					
30	5.63	120	5.63	117.0	85.4	57.2	44,016	44,016	1.00	136,701	112,915	0.826																			
160	11.63	155.0	102.5	63.4	73,653	73,653	1.00	166,338	142,552	0.857																					
200	11.24	192.9	119.5	68.9	103,403	103,403	1.00	196,088	172,302	0.879																					
10	1.88	120	1.55	112.8	87.8	59.0	35,873	35,873	1.00	78,926	64,903	0.822																			
160	1.48	147.1	103.7	64.6	63,524	63,524	1.00	106,577	92,554	0.868																					
200	1.43	181.2	119.8	69.6	91,421	91,421	1.00	134,474	120,451	0.896																					
20	3.75	120	5.65	116.2	89.0	59.4	38,021	38,021	1.00	81,074	67,051	0.827																			
160	5.40	153.2	105.8	85.3	67,121	67,121	1.00	110,174	96,151	0.873																					
200	5.22	190.1	122.6	70.5	96,378	96,378	1.00	139,431	125,408	0.899																					
30	5.63	120	12.09	117.4	89.5	59.6	38,815	38,815	1.00	81,868	67,845	0.829																			
160	11.63	155.3	106.5	65.5	68,433	68,433	1.00	111,486	97,463	0.874																					
200	11.24	193.3	123.7	70.8	98,169	98,169	1.00	141,222	127,199	0.901																					
2200	-10	30	14.8	72.0	54.0	65.4	72.4	47.85	39.18	139,892	32,460	172,352	0.81	10	1.88	120	1.57	108.0	72.8	51.2	59,446	59,446	1.00	231,798	199,338	0.860					
														160	1.50	141.0	87.0	57.0	93,357	93,357	1.00	265,709	233,249	0.878							
														200	1.44	173.9	101.3	62.2	127,606	127,606	1.00	299,958	267,498	0.892							
														20	3.75	120	5.67	113.5	74.7	51.7	64,059	64,059	1.00	236,411	203,951	0.863					
														160	5.43	149.8	89.9	58.1	100,229	100,229	1.00	272,581	240,121	0.881							
														200	5.23	186.0	105.1	63.5	136,613	136,613	1.00	308,965	276,505	0.895							
	30	5.63	120	12.12	115.6	75.4	52.3	65,780	65,780	1.00	238,132	205,672	0.864																		
	160	11.64	153.0	90.9	58.5	102,753	102,753	1.00	275,105	242,645	0.882																				
	200	11.27	190.4	106.5	64.0	139,887	139,887	1.00	312,239	279,779	0.896																				
	10	1.88	120	1.57	109.5	78.9	54.1	51,804	51,804	1.00	169,643	140,059	0.826																		
	160	1.50	142.6	93.1	59.6	85,645	85,645	1.00	203,484	173,900	0.855																				
	200	1.44	175.5	107.4	64.6	119,867	119,867	1.00	237,706	208,122	0.876																				
20	3.75	120	5.66	114.4	80.6	54.8	55,796	55,796	1.00	173,635	144,051	0.830																			
160	5.42	150.6	95.7	60.5	91,913	91,913	1.00	209,752	180,168	0.859																					
200	5.23	186.8	110.9	65.7	128,259	128,259	1.00	246,098	216,514	0.880																					
30	5.63	120	12.12	116.1	81.2	55.0	57,289	57,289	1.00	175,128	145,544	0.831																			
160	11.63	153.6	96.7	60.9	94,221	94,221	1.00	212,060	182,476	0.860																					
200	11.27	191.0	112.2	66.2	131,325	131,325	1.00	249,164	219,580	0.881																					
10	1.88	120	1.56	111.0	84.6	57.5	44,620	44,620	1.00	99,216	81,775	0.824																			
160	1.49	144.1	98.8	62.6	78,395	78,395	1.00	132,991	115,550	0.869																					
200	1.44	177.0	113.1	67.4	112,537	112,537	1.00	167,133	149,692	0.896																					
20	3.75	120	5.66	115.1	86.1	58.0	48,034	48,034	1.00	102,630	85,189	0.830																			
160	5.42	151.4	101.2	63.5	84,103	84,103	1.00	138,699	121,258	0.874																					
200	5.23	187.6	116.4	68.4	120,414	120,414	1.00	175,010	157,569	0.900																					
30	5.63	120	12.11	116.7	86.6	58.2	49,315	49,315	1.00	103,911	86,470	0.832																			
160	11.63	154.1	102.1	63.8	86,209	86,209	1.00	140,805	123,364	0.876																					
200	11.26	191.5	117.6	68.7	123,286	123,286	1.00	177,882	160,441	0.902																					
2800	-10	30	14.8	72.0	54.0	58.6	67.1	43.36	35.95	165,016	36,936	201,952	0.82	10	1.88	120	1.58	105.4	67.2	48.0	72,496	72,496	1.00	274,448	237,512	0.865					
														160	1.51	137.4	80.1	53.6	111,633	111,633	1.00	313,585	276,649	0.882							
														200	1.45	169.1	93.2	58.8	151,218	151,218	1.00	353,170	316,234	0.895							
														20	3.75	120	5.69	112.0	69.5	49.1	79,289	79,289	1.00	281,241	244,305	0.869					
														160	5.45	147.6	83.4	55.0	121,600	121,600	1.00	323,552	286,616	0.886							
														200	5.26	183.2	97.4	60.3	164,200	164,200	1.00	366,152	329,216	0.899							
	30	5.63	120	12.15	114.5	70.3	49.4	81,848	81,848	1.00	283,800	246,864	0.870																		
	160	11.66	151.5	84.6	55.5	125,288	125,288	1.00	327,240	290,304	0.887																				
	200	11.30	188.4	99.0	60.9	168,946	168,946	1.00	370,898	333,962	0.900																				
	10	1.88	120	1.58	107.5	74.8	51.8	62,163	62,163	1.00	199,841	166,180	0.832																		
	160	1.51	139.5	87.7	57.1	101,195	101,195	1.00	238,873	205,212	0.859																				
	200	1.45	171.3	100.7	61.9	140,695	140,695	1.00	278,373	244,712	0.879																				
20	3.75	120	5.67	113.1	76.7	52.6	67,924	67,924	1.00	205,602	171,941	0.836																			
160	5.44	148.8	90.6	58.3	110,151	110,151	1.00	247,829	214,168	0.864																					
200	5.25	184.3	104.7	63.3	152,689	152,689	1.00	290,367	256,706	0.884																					
30	5.63	120	12.13	115.3	77.5	53.0	70,103	70,103	1.00	207,781	174,120	0.838																			
160	11.66	152.3	91.7	58.6	113,477	113,477	1.00	251,155	217,494	0.866																					
200	11.27	189.2	106.1	63.7	157,086	157,086	1.00	294,764	261,103	0.886																					
10	1.88	120	1.57	109.4	82.0	56.2	52,385	52,385	1.00	115,982	96,137	0.829																			
160	1.50	141.5	94.8	61.0	91,323	91,323	1.00	154,920	135,075	0.872																					
200	1.45	173.3	107.8	65.4	130,748	130,748	1.00	194,345	174,500	0.898																					
20	3.75	120	5.66	114.2	83.6	56.8	57,191	57,191	1.00	120,788	100,943	0.836																			
160	5.43	149.9	97.5	61.9	89,342	89,342	1.00	152,939	133,094	0.870																					
200	5.25	185.4	111.5	66.6	141,821	141,821	1.00	205,418	185,573	0.903																					
30	5.63	120	12.12	116.0	84.2	57.0	59,014	59,014	1.00	122,611	102,766	0.838																			
160	11.66	153.1	98.5	62.3	102,327	102,327	1.00	165,924	146,079	0.880																					
200	11.27	190.0	112.8	67.0	145																										

EVT-036

HOT WATER COIL TOTAL UNIT HEATING CAPACITY

EVT-036

EVT-036 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
2400	-10	30	-11.5	72.0	54.0	67.6	74.1	49.25	40.15	156,140	36,600	192,740	0.81	10	1.88	120	1.57	106.4	75.2	52.4	67,523	67,523	1.00	260,263	223,663	0.859
														160	1.50	138.3	90.3	58.4	106,952	106,952	1.00	299,692	263,092	0.878		
														200	1.44	170.0	105.7	63.9	146,844	146,844	1.00	339,584	302,984	0.892		
														20	3.75	120	5.67	112.6	77.6	53.4	73,674	73,674	1.00	266,414	229,814	0.863
														160	5.43	148.2	93.9	59.8	116,214	116,214	1.00	308,954	272,354	0.882		
														200	5.25	183.7	110.4	65.5	159,055	159,055	1.00	351,795	315,195	0.896		
	30	5.63	120	12.12	114.9	78.4	53.7	75,994	75,994	1.00	268,734	232,134	0.864													
	160	11.66	151.9	95.2	60.2	119,647	119,647	1.00	312,387	275,787	0.883															
	200	11.27	188.8	112.1	66.0	163,528	163,528	1.00	356,268	319,668	0.897															
	10	1.88	120	1.57	108.1	80.8	55.0	59,185	59,185	1.00	191,076	157,718	0.825													
	160	1.50	140.0	95.9	60.8	98,527	98,527	1.00	230,418	197,060	0.855															
	200	1.44	171.7	111.2	66.0	138,350	138,350	1.00	270,241	236,883	0.877															
20	3.75	120	5.66	113.5	82.8	55.8	64,537	64,537	1.00	196,428	163,070	0.830														
160	5.43	149.1	99.2	61.9	107,009	107,009	1.00	238,900	205,542	0.860																
200	5.24	184.6	115.6	67.4	149,800	149,800	1.00	281,691	248,333	0.882																
30	5.63	120	12.12	115.5	83.6	56.2	66,561	66,561	1.00	198,452	165,094	0.832														
160	11.65	152.5	100.4	62.4	110,161	110,161	1.00	242,052	208,694	0.862																
200	11.27	189.4	117.2	67.9	154,003	154,003	1.00	285,894	252,536	0.883																
10	1.88	120	1.56	109.6	86.0	58.1	51,355	51,355	1.00	112,514	92,848	0.825														
160	1.50	141.6	101.1	63.5	90,618	90,618	1.00	151,777	132,111	0.870																
200	1.44	173.3	118.4	69.1	130,378	130,378	1.00	191,537	171,871	0.897																
20	3.75	120	5.66	114.3	87.8	58.8	55,967	55,967	1.00	117,126	97,460	0.832														
160	5.42	150.0	104.1	64.5	98,378	98,378	1.00	159,537	139,871	0.877																
200	5.23	185.5	120.5	69.6	141,123	141,123	1.00	202,282	182,616	0.903																
30	5.63	120	12.12	116.1	88.5	59.0	57,715	57,715	1.00	118,874	99,208	0.835														
160	11.63	153.1	105.2	64.9	101,266	101,266	1.00	162,425	142,759	0.879																
200	11.27	190.1	122.0	70.1	145,073	145,073	1.00	206,232	186,566	0.905																
3000	-10	30	-11.5	72.0	54.0	61.9	69.7	45.35	37.40	183,551	41,838	225,389	0.81	10	1.88	120	1.59	103.8	70.1	49.6	80,559	80,559	1.00	305,948	264,110	0.863
														160	1.52	134.6	83.9	55.4	125,369	125,369	1.00	350,758	308,920	0.881		
														200	1.46	165.2	97.8	60.7	170,777	170,777	1.00	396,166	354,328	0.894		
														20	3.75	120	5.69	111.0	72.8	50.8	89,303	89,303	1.00	314,692	272,854	0.867
														160	5.45	145.9	87.9	57.0	138,369	138,369	1.00	363,758	321,920	0.885		
														200	5.26	180.7	103.1	62.6	187,830	187,830	1.00	413,219	371,381	0.899		
	30	5.63	120	12.15	113.8	73.8	51.2	92,638	92,638	1.00	318,027	276,189	0.868													
	160	11.68	150.3	89.4	57.6	143,231	143,231	1.00	368,620	326,782	0.887															
	200	11.30	186.7	105.0	63.2	194,125	194,125	1.00	419,514	377,676	0.900															
	10	1.88	120	1.58	106.0	77.0	53.0	69,582	69,582	1.00	223,461	185,331	0.829													
	160	1.51	136.8	90.7	58.4	114,270	114,270	1.00	268,149	230,019	0.858															
	200	1.45	167.4	104.7	63.5	159,577	159,577	1.00	313,456	275,326	0.878															
20	3.75	120	5.68	112.2	79.3	54.0	77,050	77,050	1.00	230,929	192,799	0.835														
160	5.45	147.2	94.4	59.8	126,013	126,013	1.00	279,892	241,762	0.864																
200	5.26	182.0	109.5	65.1	175,398	175,398	1.00	329,277	291,147	0.884																
30	5.63	120	12.14	114.8	80.2	54.3	79,910	79,910	1.00	233,789	195,659	0.837														
160	11.66	151.1	95.7	60.3	130,420	130,420	1.00	284,299	246,169	0.866																
200	11.29	187.6	111.3	65.6	181,253	181,253	1.00	335,132	297,002	0.886																
10	1.88	120	1.57	108.1	83.5	56.9	59,223	59,223	1.00	130,411	107,931	0.828														
160	1.51	138.9	97.2	62.0	103,803	103,803	1.00	174,991	152,511	0.872																
200	1.45	169.6	111.1	66.6	149,021	149,021	1.00	220,209	197,729	0.898																
20	3.75	120	5.67	113.4	85.4	57.6	65,515	65,515	1.00	136,703	114,223	0.836														
160	5.43	148.4	100.4	63.1	114,384	114,384	1.00	185,572	163,092	0.879																
200	5.25	183.2	115.6	68.0	163,698	163,698	1.00	234,886	212,406	0.904																
30	5.63	120	12.12	115.4	86.2	57.9	67,933	67,933	1.00	139,121	116,641	0.838														
160	11.66	152.0	101.7	63.5	118,367	118,367	1.00	189,555	167,075	0.881																
200	11.28	188.4	117.3	68.5	169,143	169,143	1.00	240,331	217,851	0.906																
3600	-10	30	-11.5	72.0	54.0	56.2	65.2	41.50	34.57	206,194	45,489	251,683	0.82	10	1.88	120	1.60	101.3	65.3	46.9	93,017	93,017	1.00	344,700	299,211	0.868
														160	1.53	131.2	78.0	52.5	142,438	142,438	1.00	394,121	348,632	0.885		
														200	1.47	160.8	90.8	57.7	192,586	192,586	1.00	444,269	398,780	0.898		
														20	3.75	120	5.71	109.4	68.3	48.3	104,671	104,671	1.00	356,354	310,865	0.872
														160	5.47	143.8	82.4	54.3	159,569	159,569	1.00	411,252	365,763	0.889		
														200	5.29	178.0	96.6	59.8	214,957	214,957	1.00	466,640	421,151	0.903		
	30	5.63	120	12.18	112.7	69.5	48.8	109,156	109,156	1.00	360,839	315,500	0.874													
	160	11.70	148.7	84.0	55.0	168,020	168,020	1.00	419,703	374,214	0.892															
	200	11.34	184.7	98.7	60.6	223,257	223,257	1.00	474,940	429,451	0.904															
	10	1.88	120	1.59	104.0	73.5	51.1	79,332	79,332	1.00	250,720	209,266	0.835													
	160	1.52	134.0	86.1	56.3	128,601	128,601	1.00	299,989	258,535	0.862															
	200	1.47	163.6	99.0	61.1	178,619	178,619	1.00	350,007	308,553	0.882															
20	3.75	120	5.70	111.0	76.0	52.1	89,117	89,117	1.00	260,505	219,051	0.841														
160	5.46	145.4	90.1	57.8	143,872	143,872	1.00	315,260	273,806	0.869																
200	5.28	179.6	104.2	62.9	199,150	199,150	1.00	370,538	329,084	0.888																
30	5.63	120	12.16	113.7	77.0	52.6	92,903	92,903	1.00	264,291	222,837	0.843														
160	11.69	149.8	91.5	58.3	149,649	149,649	1.00	321,037	279,583	0.871																
200	11.31	185.8	106.2	63.6	206,798	206,798	1.00	378,186	336,732	0.890																
10	1.88	120	1.58	106.6	81.3	55.8	68,340	68,340	1.00	147,419	122,978	0.834														
160	1.52	136.6	93.8	60.5	115,477	115,477	1.00	194,556	170,115	0.874																
200	1.46	166.3	106.6	64.9	165,381	165,381	1.00	244,460	220,019	0.900																
20	3.75	120	5.68	112.5	83.3	56.6	74,407	74,407	1.00	153,486	129,045	0.841														
160	5.45	146.9	97.3	61.8	129,030	129,030	1.00	208,109	183,668	0.883																
200	5.27	181.1	111.5	66.5	184,209	184,209	1.00	263,288	238,847	0.907																
30	5.63	120	12.15	114.8	84.1	56.9	11,543	11,543	1.00	90,622	66,181	0.730														
160	11.68	150.9	98.6	62.2	134,180	134,180	1.00	213,259	188,818	0.885																
200	11.31	186.9	113.3	67.1																						