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**CHILLED WATER COIL
TOTAL UNIT COOLING CAPACITY**

EVT-074 **EVT-074**

EVT-074 TOTAL UNIT COOLING CAPACITY -- CHILLED WATER COIL														PERFORMANCE RATINGS - CHILLED WATER COIL										UNIT PERFORMANCE																													
SUMMER APPLICATION RATINGS - ENTHALPY WHEEL														FLUID DATA										COMBINED COOLING CAP																													
AIR VOLUME (cfm)	OA CONDITIONS			RA CONDITIONS		EFFECTIVENESS		AIR-LVG WHL / ENT DXC		COOLING CAP--ENTHALPY WHEEL				FR				LVG AIR TEMP		COOLING CAP--CW COIL			TOTAL			SENS			S/T																								
	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	(gpm)	VEL (ft/sec)	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	80	5	50.4	75.0	47.8	65.79	72.41	76.31	48.48	20,817	3,031	23,848	0.87	20	1.99	2.43	54.1	60.8	40.8	91,629	91,629	1.00	115,477	112,446	0.97	40	3.98	8.66	50.1	58.9	39.8	102,645	102,645	1.00	126,493	123,462	0.98	60	5.97	18.28	48.6	58.2	39.4	107,005	107,005	1.00	130,853	127,822	0.98				
						59.6	65.89	72.49	76.31	60.77	20,755	23,976	44,731	0.46	20	1.99	2.43	54.2	60.7	54.8	92,412	92,412	1.00	137,143	113,167	0.83	40	3.98	8.66	50.2	58.8	54.0	105,003	103,598	0.99	149,734	124,353	0.83	60	5.97	18.28	48.7	58.3	53.5	111,688	106,511	0.95	156,419	127,266	0.81			
						69.2	66.00	72.57	76.30	70.62	20,692	44,566	65,258	0.32	20	1.99	2.43	59.0	64.8	63.3	140,237	67,773	0.48	205,495	88,465	0.43	40	3.98	8.66	54.0	62.3	61.0	180,164	82,677	0.46	245,422	103,369	0.42	60	5.97	18.28	51.6	61.1	59.9	197,894	89,690	0.45	263,152	110,382	0.42			
		95	5		57.7	75.0	47.8	66.12	72.71	80.19	50.63	82,969	14,078	97,047	0.85	20	1.99	2.42	55.3	62.7	42.2	103,124	103,124	1.00	200,171	186,093	0.93	40	3.98	8.66	50.8	60.6	41.1	115,463	115,463	1.00	212,510	198,432	0.93	60	5.97	18.24	49.0	59.8	40.7	120,353	120,353	1.00	217,400	203,322	0.94		
								59.6	66.26	72.82	80.16	64.71	82,685	119,157	201,842	0.41	20	1.99	2.42	55.8	63.0	58.2	108,288	101,433	0.94	310,130	184,118	0.59	40	3.98	8.66	51.5	61.5	56.8	130,812	110,535	0.84	332,654	193,220	0.58	60	5.97	18.24	49.7	60.6	56.0	142,847	115,579	0.81	344,689	198,264	0.58	
								69.2	66.40	72.94	80.14	75.64	82,399	227,761	310,160	0.27	20	1.99	2.42	62.4	68.5	67.4	173,984	68,529	0.39	484,144	150,928	0.31	40	3.98	8.66	56.3	65.4	64.7	226,053	86,675	0.38	536,213	169,074	0.32	60	5.97	18.24	53.3	63.9	63.4	249,820	95,379	0.38	559,980	177,978	0.32	
	110	5	57.7	75.0	47.8		66.4	73.0	83.98	52.81	144,683	30,199	174,882	0.83	20	1.88	2.40	56.4	64.6	43.8	114,340	114,340	1.00	289,222	259,023	0.896	40	3.75	8.56	51.4	62.3	42.7	127,959	127,959	1.00	302,841	272,642	0.900	60	5.63	18.08	49.4	61.4	42.2	133,363	133,363	1.00	308,245	278,046	0.902			
							59.6	66.6	73.2	83.92	69.43	144,091	264,071	408,162	0.35	20	1.88	2.40	58.3	66.6	62.2	133,006	102,618	0.77	541,168	246,709	0.456	40	3.75	8.56	53.4	64.3	60.0	169,214	116,378	0.69	577,376	260,469	0.451	60	5.63	18.08	51.2	63.2	59.0	185,713	122,992	0.66	593,875	267,083	0.450		
							69.2	66.8	73.3	83.87	81.82	143,494	513,681	657,175	0.22	20	1.88	2.40	66.9	73.0	72.8	219,254	64,179	0.29	876,429	207,673	0.237	40	3.75	8.56	59.4	69.3	69.3	289,256	86,346	0.30	946,431	229,840	0.243	60	5.63	18.08	55.7	67.4	67.4	321,143	97,403	0.30	978,318	240,897	0.246		
	6400	80	5		50.4	75.0	47.8	61.30	68.95	76.49	48.58	23,485	3,351	26,836	0.88	20	1.99	2.42	55.1	62.0	41.5	101,359	101,359	1.00	128,195	124,854	0.97	40	3.98	8.64	50.7	60.0	40.4	115,200	115,200	1.00	142,036	138,685	0.98	60	5.97	18.24	49.0	59.2	40.0	120,795	120,795	1.00	147,631	144,280	0.98		
								59.6	61.49	69.04	76.48	60.92	23,420	26,518	49,938	0.47	20	1.99	2.42	55.2	61.9	55.4	102,104	102,104	1.00	152,042	125,224	0.83	40	3.98	8.64	50.8	59.9	54.5	116,504	116,504	1.00	166,442	139,924	0.84	60	5.97	18.24	49.1	59.2	54.1	124,202	120,951	0.97	174,140	144,371	0.83	
								69.2	61.61	69.14	76.48	70.82	23,356	49,311	72,667	0.32	20	1.99	2.42	59.8	66.0	64.3	148,430	73,138	0.49	221,097	96,494	0.44	40	3.98	8.64	54.8	63.6	62.1	195,858	90,389	0.46	268,525	113,745	0.42	60	5.97	18.24	52.2	62.4	61.0	217,461	98,725	0.45	290,128	122,081	0.42	
			95	5	57.7		75.0	47.8	61.76	69.30	80.87	51.00	93,611	15,576	109,187	0.86	20	1.99	2.41	56.5	64.4	43.1	115,644	115,644	1.00	224,831	209,255	0.93	40	3.98	8.63	51.5	62.1	42.0	131,341	131,341	1.00	240,528	224,952	0.94	60	5.97	18.23	49.6	61.2	41.5	137,695	137,695	1.00	246,882	231,306	0.94	
									59.6	61.93	69.44	80.85	65.36	93,314	131,899	225,213	0.41	20	1.99	2.41	57.1	64.5	59.4	121,728	114,811	0.94	346,941	208,125	0.60	40	3.98	8.64	52.3	63.1	58.0	147,266	124,892	0.85	372,479	218,206	0.59	60	5.97	18.23	50.4	62.2	57.2	162,069	120,953	0.81	387,282	224,267	0.58
									69.2	62.10	69.58	80.82	76.44	93,015	252,228	345,243	0.27	20	1.99	2.41	63.8	70.3	69.1	188,237	73,334	0.39	533,480	166,349	0.31	40	3.98	8.63	57.5	67.3	66.4	251,001	94,343	0.38	596,244	187,358	0.31	60	5.97	18.23	54.3	65.8	65.1	280,718	105,600	0.37	625,961	198,075	0.32
		110	5	57.7	75.0	47.8		62.1	69.7	85.16	53.44	163,254	33,438	196,692	0.83	20	1.88	2.40	57.9	66.7	44.9	129,631	129,631	1.00	304,513	292,885	0.962	40	3.75	8.56	52.3	64.2	43.7	147,126	147,126	1.00	322,008	310,380	0.964	60	5.63	18.08	50.1	63.2	43.2	154,216	154,216	1.00	329,098	317,470	0.965		
								59.6	62.4	69.9	85.09	70.60	162,629	292,545	455,174	0.36	20	1.88	2.40	59.8	68.7	64.0	148,682	114,558	0.77	556,844	277,187	0.498	40	3.75	8.56	54.6	66.4	61.9	192,845	130,714	0.68	601,007	293,343	0.488	60	5.63	18.08	52.1	65.2	60.8	214,420	139,064	0.65	622,582	301,693	0.485	
								69.2	62.6	70.1	85.03	83.25	161,996	569,353	731,349	0.22	20	1.88	2.40	69.1	75.5	75.4	240,889	66,149	0.27	898,064	228,145	0.254	40	3.75	8.56	61.3	71.9	71.9	326,661	91,705	0.28	983,836	253,701	0.258	60	5.63	18.08	57.2	70.7	70.0	367,988	105,236	0.29	1,025,163	267,232	0.261	
7400		80	5	50.4		75.0	47.8	56.93	65.47	76.66	48.68	25,777	3,595	29,372	0.88	20	1.99	2.41	56.0	63.1	42.0	110,136	110,136	1.00	139,508	135,913	0.97	40	3.98	8.63	51.3	61.0	40.9	126,813	126,813	1.00	156,185	152,590	0.98	60	5.97	18.23	49.4	60.2	40.5	133,684	133,684	1.00	163,056	159,461	0.98		
								59.6	57.08	65.59	76.65	61.08	25,714	28,461	54,175	0.47	20	1.99	2.41	56.0	63.0	55.9	110,828	110,828	1.00	165,003	136,542	0.83	40	3.98	8.64	51.4	60.9	55.1	128,257	128,257	1.00	182,432	153,971	0.84	60	5.97	18.23	49.5	60.1	54.7	138,292	134,362	0.97	192,467	160,076	0.83	
								69.2	57.22	65.70	76.65	71.01	25,651	52,948	78,599	0.33	20	1.99	2.41	60.5	67.0	65.2	155,589	78,101	0.50	234,188	103,752	0.44	40	3.98	8.63	55.4	64.7	63.0	209,325	97,218	0.46	287,924	122,869	0.43	60	5.97	18.23	52.8	63.5	62.0	234,746	106,813	0.46	313,345	132,464	0.42	
			95	5	57.7		75.0	47.8	57.40	65.89	81.56	51.36	102,781	16,729	119,510	0.86	20	1.99	2.40	57.7	65.9	44.0	127,349	127,349	1.00	246,859	230,130	0.93	40	3.98	8.61	52.3	63.5	42.8	146,492	146,492	1.00	266,002	249,273	0.94	60	5.97	18.18	50.1	62.5	42.3	154,390	154,390	1.00	273,900	257,171	0.94	
									59.6	57.60	66.06																																										

EVT-088

CHILLED WATER COIL TOTAL UNIT COOLING CAPACITY

EVT-088

EVT-088 TOTAL UNIT COOLING CAPACITY -- CHILLED WATER COIL																										
SUMMER APPLICATION RATINGS - ENTHALPY WHEEL													PERFORMANCE RATINGS - CHILLED WATER COIL							UNIT PERFORMANCE						
AIR VOLUME (cfm)	OA CONDITIONS			RA CONDITIONS		EFFECTIVENESS		AIR-LVG WHL / ENT DXC		COOLING CAP-ENTHALPY WHEEL				FLUID DATA				LVG AIR TEMP			COOLING CAP--CW COIL			COMBINED COOLING 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)	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	80	5	50.4	75.0	47.8	65.78	72.40	76.32	48.49	24,668	3,592	28,260	0.87	20	1.99	2.42	55.0	61.9	41.4	100,711	100,711	1.00	128,971	125,379	0.97	
		40	63.5		59.6	65.88	72.48	76.32	60.78	24,595	28,410	53,005	0.46	40	3.98	8.64	50.7	59.9	40.4	114,467	114,467	1.00	142,727	139,135	0.97	
		60	5.97		18.24	49.0	59.1	39.9	120,027	120,027	1.00	60	5.97	18.24	49.0	59.1	39.9	120,027	120,027	1.00	148,287	144,695	0.98			
	95	5	57.7	75.0	47.8	66.10	72.70	80.23	50.65	98,322	16,681	115,003	0.85	20	1.99	2.41	56.3	64.0	43.0	113,369	113,369	1.00	228,372	211,691	0.93	
		40	75.1		59.6	66.24	72.82	80.21	64.75	97,985	141,197	239,182	0.41	40	3.98	8.64	51.4	61.8	41.8	128,772	128,772	1.00	243,775	227,094	0.93	
		60	5.97		18.23	50.2	61.8	56.8	135,006	135,006	1.00	60	5.97	18.23	50.2	61.8	56.8	135,006	135,006	1.00	250,009	233,328	0.93			
	110	5	57.7	75.0	47.8	66.4	73.0	84.06	52.85	171,456	35,785	207,241	0.83	20	1.88	2.40	57.6	66.1	44.6	126,050	126,050	1.00	300,932	297,506	0.989	
		40	75.1		59.6	66.6	73.2	84.00	69.50	170,757	312,921	483,678	0.35	40	3.75	8.56	52.1	63.7	43.4	143,087	143,087	1.00	317,969	314,543	0.989	
		60	5.63		18.08	50.0	62.7	42.9	149,989	149,989	1.00	60	5.63	18.08	50.0	62.7	42.9	149,989	149,989	1.00	324,871	321,445	0.989			
	7600	80	5	50.4	75.0	47.8	61.28	68.88	76.50	48.59	27,861	3,974	31,835	0.88	20	1.99	2.41	56.1	63.2	42.0	110,941	110,941	1.00	142,776	138,802	0.97
			40	63.5		59.6	61.41	68.98	76.49	60.94	27,785	31,447	59,232	0.47	40	3.98	8.63	51.4	61.1	41.0	128,058	128,058	1.00	159,893	155,919	0.98
			60	5.97		18.23	49.5	60.2	40.5	135,136	135,136	1.00	60	5.97	18.23	49.5	60.2	40.5	135,136	135,136	1.00	166,971	162,997	0.98		
95		5	57.7	75.0	47.8	61.68	69.24	80.93	51.03	111,058	18,472	129,530	0.86	20	1.99	2.40	57.6	65.7	43.8	126,612	126,612	1.00	256,142	237,670	0.93	
		40	75.1		59.6	61.85	69.38	80.90	65.41	110,707	156,421	267,128	0.41	40	3.98	8.61	52.3	63.3	42.6	146,017	146,017	1.00	275,547	257,075	0.93	
		60	5.97		18.18	50.1	62.4	42.1	154,052	154,052	1.00	60	5.97	18.18	50.1	62.4	42.1	154,052	154,052	1.00	283,582	265,110	0.93			
110		5	57.7	75.0	47.8	62.1	69.6	85.25	53.49	193,684	39,656	233,340	0.83	20	1.88	2.40	60.9	69.8	64.7	159,882	127,729	0.80	398,164	237,299	0.60	
		40	75.1		59.6	62.3	69.8	85.19	70.69	192,946	346,949	539,895	0.36	40	3.75	8.56	55.3	67.8	62.9	207,279	144,699	0.70	615,441	337,645	0.549	
		60	5.63		18.08	52.7	66.6	61.8	233,014	154,423	0.66	60	5.63	18.08	52.7	66.6	61.8	233,014	154,423	0.66	641,176	347,369	0.542			
8800		80	5	50.4	75.0	47.8	56.77	65.34	76.68	48.69	30,592	4,262	34,854	0.88	20	1.99	2.40	57.0	64.2	42.6	120,095	120,095	1.00	154,949	150,687	0.97
			40	63.5		59.6	56.91	65.46	76.67	61.10	30,518	33,748	64,266	0.47	40	3.98	8.61	52.0	62.1	41.5	140,538	140,538	1.00	175,392	171,130	0.98
			60	5.97		18.18	50.0	61.2	41.0	149,167	149,167	1.00	60	5.97	18.18	50.0	61.2	41.0	149,167	149,167	1.00	184,021	179,759	0.98		
	95	5	57.7	75.0	47.8	57.24	65.77	81.62	51.40	121,986	19,837	141,823	0.86	20	1.99	2.38	59.3	66.8	61.0	143,135	142,294	0.99	432,855	263,933	0.61	
		40	75.1		59.6	57.44	65.93	81.59	66.06	121,639	168,081	289,720	0.42	40	3.98	8.59	53.8	65.5	59.8	176,097	154,824	0.88	465,817	276,463	0.59	
		60	5.97		18.16	51.5	64.7	59.1	195,045	162,285	0.83	60	5.97	18.16	51.5	64.7	59.1	195,045	162,285	0.83	484,765	283,924	0.59			
	110	5	57.7	75.0	47.8	57.7	66.2	86.45	54.12	212,803	42,636	255,439	0.83	20	1.88	2.40	62.4	71.7	66.3	174,940	141,205	0.81	583,102	353,274	0.606	
		40	75.1		59.6	58.0	66.4	86.37	71.84	212,069	373,278	585,347	0.36	40	3.75	8.56	56.5	69.7	64.5	229,963	160,225	0.70	638,125	372,294	0.583	
		60	5.63		18.08	53.7	68.6	63.5	261,298	171,669	0.66	60	5.63	18.08	53.7	68.6	63.5	261,298	171,669	0.66	669,460	383,738	0.573			

NOTES: 1. Entering water temperature is 45°F. 2. Coil face area is 14.72 sq. ft. 3. All data based on balanced system (Exhaust cfm = Supply cfm).