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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														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			
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	63.5	59.6	65.89	72.49	76.31	60.77	20,755	23,976	44,731	0.46	40	3.98	8.66	50.1	58.9	39.8	102,645	102,645	1.00	126,493	123,462	0.98
						60	73.8	69.2	66.00	72.57	76.30	70.62	20,692	44,566	65,258	0.32	60	5.97	18.28	48.6	58.2	39.4	107,005	107,005	1.00	130,853	127,822	0.98
		40	63.5		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	63.5		59.6	65.89	72.49	76.31	60.77	20,755	23,976	44,731	0.46	40	3.98	8.66	50.2	58.8	54.0	105,003	103,598	0.99	149,734	124,353	0.83			
		60	73.8		69.2	66.00	72.57	76.30	70.62	20,692	44,566	65,258	0.32	60	5.97	18.28	48.7	58.3	53.5	111,688	106,511	0.95	156,419	127,266	0.81			
	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	75.1	59.6	66.26	72.82	80.16	64.71	82,685	119,157	201,842	0.41	40	3.98	8.66	50.8	60.6	41.1	115,463	115,463	1.00	212,510	198,432	0.93
						60	87.7	69.2	66.40	72.94	80.14	75.64	82,399	227,761	310,160	0.27	60	5.97	18.24	49.0	59.8	40.7	120,353	120,353	1.00	217,400	203,322	0.94
		40	75.1		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	75.1		59.6	66.26	72.82	80.16	64.71	82,685	119,157	201,842	0.41	40	3.98	8.66	51.5	61.5	56.8	130,812	110,535	0.84	332,654	193,220	0.58			
		60	87.7		69.2	66.40	72.94	80.14	75.64	82,399	227,761	310,160	0.27	60	5.97	18.24	49.7	60.6	56.0	142,847	115,579	0.81	344,689	198,264	0.58			
	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	1.99	2.40	56.4	64.6	43.8	114,340	114,340	1.00	289,222	259,023	0.896			
						40	75.1	59.6	66.6	73.2	83.92	69.43	144,091	264,071	408,162	0.35	40	3.75	8.56	51.4	62.3	42.7	127,959	127,959	1.00	302,841	272,642	0.900
						60	87.7	69.2	66.8	73.3	83.87	81.82	143,494	513,681	657,175	0.22	60	5.63	18.08	49.4	61.4	42.2	133,363	133,363	1.00	308,245	278,046	0.902
		40	75.1		59.6	66.6	73.2	83.92	69.43	144,091	264,071	408,162	0.35	20	1.88	2.40	56.4	64.6	43.8	114,340	114,340	1.00	289,222	259,023	0.896			
		40	75.1		59.6	66.6	73.2	83.92	69.43	144,091	264,071	408,162	0.35	40	3.75	8.56	53.4	64.3	60.0	169,214	116,378	0.69	577,376	260,469	0.451			
		60	87.7		69.2	66.8	73.3	83.87	81.82	143,494	513,681	657,175	0.22	60	5.63	18.08	51.2	63.2	59.0	185,713	122,992	0.66	593,875	267,083	0.450			
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	63.5	59.6	61.49	69.04	76.48	60.92	23,420	26,518	49,938	0.47	40	3.98	8.64	50.7	60.0	40.4	115,200	115,200	1.00	142,036	138,685	0.98
						60	73.8	69.2	61.61	69.14	76.48	70.82	23,356	49,311	72,667	0.32	60	5.97	18.24	49.0	59.2	40.0	120,795	120,795	1.00	147,631	144,280	0.98
		40	63.5		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	63.5		59.6	61.49	69.04	76.48	60.92	23,420	26,518	49,938	0.47	40	3.98	8.64	50.8	59.9	54.5	116,504	116,504	1.00	166,442	139,924	0.84			
		60	73.8		69.2	61.61	69.14	76.48	70.82	23,356	49,311	72,667	0.32	60	5.97	18.24	49.1	59.2	54.1	124,202	120,951	0.97	174,140	144,371	0.83			
	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	75.1	59.6	61.93	69.44	80.85	65.36	93,314	131,899	225,213	0.41	40	3.98	8.64	52.3	63.1	58.0	147,266	124,892	0.85	372,479	218,206	0.59
						60	87.7	69.2	62.10	69.58	80.82	76.44	93,015	252,228	345,243	0.27	60	5.97	18.23	54.3	65.8	65.1	280,718	105,060	0.37	625,961	198,075	0.32
		40	75.1		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	75.1		59.6	61.93	69.44	80.85	65.36	93,314	131,899	225,213	0.41	40	3.98	8.64	52.3	63.1	58.0	147,266	124,892	0.85	372,479	218,206	0.59			
		60	87.7		69.2	62.10	69.58	80.82	76.44	93,015	252,228	345,243	0.27	60	5.97	18.23	54.4	62.2	57.2	162,069	130,953	0.81	387,282	224,267	0.58			
	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	75.1	59.6	62.4	69.9	85.09	70.60	162,629	292,545	455,174	0.36	40	3.75	8.56	54.6	66.4	61.9	192,845	130,714	0.68	601,007	293,343	0.488
						60	87.7	69.2	62.6	70.1	85.03	83.25	161,996	569,353	731,349	0.22	60	5.63	18.08	52.1	65.2	60.8	214,420	139,064	0.65	622,582	301,693	0.485
		40	75.1		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	75.1		59.6	62.4	69.9	85.09	70.60	162,629	292,545	455,174	0.36	40	3.75	8.56	54.6	66.4	61.9	192,845	130,714	0.68	601,007	293,343	0.488			
		60	87.7		69.2	62.6	70.1	85.03	83.25	161,996	569,353	731,349	0.22	60	5.63	18.08	52.1	65.2	60.8	214,420	139,064	0.65	622,582	301,693	0.485			
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	63.5	59.6	57.08	65.59	76.65	61.08	25,714	28,461	54,175	0.47	40	3.98	8.63	51.3	61.0	40.9	126,813	126,813	1.00	156,185	152,590	0.98
						60	73.8	69.2	57.22	65.70	76.65	71.01	25,651	52,948	78,599	0.33	60	5.97	18.23	49.4	60.2	40.5	133,684	133,684	1.00	163,056	159,461	0.98
		40	63.5		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	63.5		59.6	57.08	65.59	76.65	61.08	25,714	28,461	54,175	0.47	40	3.98	8.64	51.4	60.9	55.1	128,257	128,257	1.00	182,432	153,971	0.84			
		60	73.8		69.2	57.22	65.70	76.65	71.01	25,651	52,948	78,599	0.33	60	5.97	18.23	49.5	60.1	54.7	138,292	134,362	0.97	192,467	160,076	0.83			
	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	75.1	59.6	57.60	66.06	81.53	66.00	102,486	141,736	244,222	0.42	40	3.98	8.61	52.3								

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).