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**CHILLED WATER COIL  
TOTAL UNIT COOLING CAPACITY**

**EVT-028** **EVT-028**

EVT-028 TOTAL UNIT COOLING CAPACITY -- CHILLED WATER COIL																								
SUMMER APPLICATION RATINGS - ENTHALPY WHEEL										PERFORMANCE RATINGS - CHILLED WATER COIL								UNIT PERFORMANCE						
AIR VOLUME (cfm)	OA CONDITIONS			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)	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			
1600	80	5	50.4	76.08	48.37	6,553	976	7,529	0.87	10	1.88	2.40	50.6	59.9	40.3	28,301	28,301	1.00	35,830	34,854	0.97			
		20								20	3.75	8.56	48.0	58.7	39.7	30,390	30,390	1.00	37,919	36,943	0.97			
		30								30	5.63	18.08	47.1	58.3	39.5	31,184	31,184	1.00	38,713	37,737	0.97			
	95	40	63.5	76.08	60.56	6,532	7,721	14,253	0.46	10	1.88	2.40	50.8	59.5	54.2	29,056	29,029	1.00	43,309	35,561	0.82			
		20								20	3.75	8.56	48.3	58.3	53.3	32,903	30,720	0.93	47,156	37,252	0.79			
		30								30	5.63	18.08	47.3	58.0	52.9	34,921	31,627	0.91	49,174	38,159	0.78			
	110	75	73.8	76.08	70.37	6,510	14,344	20,854	0.31	10	1.88	2.40	55.2	62.6	61.2	51,198	23,537	0.46	72,052	30,047	0.42			
		20								20	3.75	8.56	51.1	60.4	59.2	60,848	27,452	0.45	81,702	33,962	0.42			
		30								30	5.63	18.08	49.3	59.4	58.4	64,746	29,116	0.45	85,600	35,626	0.42			
	2200	80	5	57.7	79.28	50.14	26,123	4,532	30,655	0.85	10	1.88	2.40	51.2	61.4	41.6	31,224	31,224	1.00	61,879	57,347	0.93		
			20								20	3.75	8.56	48.3	60.1	40.9	33,521	33,521	1.00	64,176	59,644	0.93		
			30								30	5.63	18.08	47.3	59.6	40.6	34,397	34,397	1.00	65,052	60,520	0.93		
95		40	75.1	79.27	63.85	26,027	38,347	64,374	0.40	10	1.88	2.40	52.1	61.7	56.6	35,459	30,702	0.87	99,833	56,729	0.57			
		20								20	3.75	8.56	49.2	60.1	55.1	42,058	33,530	0.80	106,432	59,557	0.56			
		30								30	5.63	18.08	48.0	59.4	54.5	44,720	34,713	0.78	109,094	60,740	0.56			
110	75	87.7	79.25	74.56	25,930	73,265	99,195	0.26	10	1.88	2.40	57.4	65.2	64.3	62,127	24,537	0.39	161,322	50,467	0.31				
	20								20	3.75	8.56	52.4	62.6	62.0	74,079	29,191	0.39	173,274	55,121	0.32				
	30								30	5.63	18.08	50.3	61.4	61.1	79,070	31,259	0.40	178,265	57,189	0.32				
2800	80	5	57.7	82.42	52.00	45,560	10,096	55,656	0.82	10	1.88	2.40	51.8	62.9	42.8	34,074	34,074	1.00	89,730	79,634	0.887			
		20								20	3.75	8.56	48.6	61.5	42.1	36,575	36,575	1.00	92,231	82,135	0.891			
		30								30	5.63	18.08	47.5	61.0	41.8	37,529	37,529	1.00	93,185	83,089	0.892			
	95	40	75.1	82.38	67.84	45,364	84,933	130,297	0.35	10	1.88	2.40	53.9	64.0	59.2	44,593	32,225	0.72	174,890	77,589	0.444			
		20								20	3.75	8.56	50.3	62.0	57.5	52,976	35,708	0.67	183,273	81,072	0.442			
		30								30	5.63	18.08	48.7	61.2	56.8	56,210	37,112	0.66	186,507	82,476	0.442			
	110	75	87.7	82.34	79.84	45,166	165,141	210,307	0.21	10	1.88	2.40	60.3	68.4	68.4	76,632	24,363	0.32	286,939	69,529	0.242			
		20								20	3.75	8.56	54.2	65.1	65.1	92,235	30,097	0.33	302,542	75,263	0.249			
		30								30	5.63	18.08	51.5	63.7	63.7	98,588	32,619	0.33	308,895	77,785	0.252			
	3200	80	5	50.4	76.34	48.49	8,384	1,215	9,599	0.87	10	1.88	2.40	51.9	61.8	41.3	34,792	34,792	1.00	44,391	43,176	0.97		
			20								20	3.75	8.56	48.8	60.5	40.6	38,080	38,080	1.00	47,679	46,464	0.97		
			30								30	5.63	18.08	47.6	59.9	40.4	39,366	39,366	1.00	48,965	47,750	0.98		
95		40	63.5	76.34	60.80	8,360	9,614	17,974	0.47	10	1.88	2.40	52.1	61.6	55.2	35,421	35,421	1.00	53,395	43,781	0.82			
		20								20	3.75	8.56	49.0	60.3	54.5	39,816	38,588	0.97	57,790	46,948	0.81			
		30								30	5.63	18.08	47.8	59.8	54.0	42,399	39,723	0.94	60,373	48,083	0.80			
110		75	73.8	76.33	70.66	8,335	17,871	26,206	0.32	10	1.88	2.40	56.7	64.9	63.1	58,835	27,375	0.47	85,041	35,710	0.42			
		20								20	3.75	8.56	52.2	62.7	61.2	72,542	32,671	0.45	98,748	41,006	0.42			
		30								30	5.63	18.08	50.2	61.7	60.4	78,434	35,076	0.45	104,640	43,411	0.41			
3600		80	5	57.7	80.31	50.70	33,418	5,645	39,063	0.86	10	1.88	2.40	52.8	64.0	42.9	39,260	39,260	1.00	78,323	72,678	0.93		
			20								20	3.75	8.56	49.3	62.4	42.1	42,955	42,955	1.00	82,018	76,373	0.93		
			30								30	5.63	18.08	47.9	61.8	41.8	44,400	44,400	1.00	83,463	77,818	0.93		
	95	40	75.1	80.29	64.83	33,305	47,787	81,092	0.41	10	1.88	2.40	53.6	64.3	58.5	43,124	38,550	0.89	124,216	71,855	0.58			
		20								20	3.75	8.56	50.2	62.7	57.1	52,123	42,255	0.81	133,215	75,560	0.57			
		30								30	5.63	18.08	48.8	61.9	56.4	56,573	44,161	0.78	137,665	77,466	0.56			
110	75	87.7	80.27	75.79	33,192	91,350	124,542	0.27	10	1.88	2.40	59.7	68.5	67.3	73,563	28,340	0.39	198,105	61,532	0.31				
	20								20	3.75	8.56	54.1	65.8	65.0	91,328	34,786	0.38	215,870	67,978	0.31				
	30								30	5.63	18.08	51.6	64.6	64.0	99,266	37,872	0.38	223,808	71,064	0.32				
4000	80	5	57.7	84.20	52.96	58,274	12,584	70,858	0.82	10	1.88	2.40	53.7	66.1	44.7	43,621	43,621	1.00	99,277	101,895	1.026			
		20								20	3.75	8.56	49.8	64.4	43.8	47,708	47,708	1.00	103,364	105,982	1.025			
		30								30	5.63	18.08	48.3	63.7	43.5	49,310	49,310	1.00	104,966	107,584	1.025			
	95	40	75.1	84.14	69.65	58,039	105,920	163,959	0.35	10	1.88	2.40	56.1	67.6	62.3	55,574	39,760	0.72	185,871	97,799	0.526			
		20								20	3.75	8.56	51.8	65.4	60.4	68,689	44,886	0.65	198,986	102,925	0.517			
		30								30	5.63	18.08	49.9	64.5	59.6	74,201	47,157	0.64	204,498	105,196	0.514			
	110	75	87.7	84.08	82.09	57,802	206,062	263,864	0.22	10	1.88	2.40	63.7	72.8	72.8	93,465	27,189	0.29	303,772	84,991	0.280			
		20								20	3.75	8.56	56.7	69.5	69.5	117,654	35,231	0.30	327,961	93,033	0.284			
		30								30	5.63	18.08	53.5	67.9	67.9	128,157	39,042	0.30	338,464	96,844	0.286			
	4800	80	5	50.4	76.60	48.63	9,871	1,384	11,255	0.88	10	1.88	2.40	53.1	63.4	42.1	40,429	40,429	1.00	51,684	50,300	0.97		
			20								20	3.75	8.56	49.5	61.9	41.3	44,978	44,978	1.00	56,233	54,849	0.98		
			30								30	5.63	18.08	48.1	61.3	41.0	46,798	46,798	1.00	58,053	56,669	0.98		
95		40	63.5	76.60	61.03	9,847	10,958	20,805	0.47	10	1.88	2.40	53.1	63.3	56.0	40,780	40,780	1.00	61,585	50,627	0.82			
		20								20	3.75	8.56	49.6	61.5	55.2	46,660	46,290	0.99	67,465	56,137	0.83			
		30								30	5.													

**EVT-036**

**CHILLED WATER COIL  
TOTAL UNIT COOLING CAPACITY**

**EVT-036**

EVT-036 TOTAL UNIT COOLING CAPACITY -- CHILLED WATER COIL																					
SUMMER APPLICATION RATINGS - ENTHALPY WHEEL										PERFORMANCE RATINGS - CHILLED WATER COIL						UNIT PERFORMANCE					
AIR VOLUME (cfm)	OA CONDITIONS			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)	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
2400	80	5	50.4	76.26	48.45	9,364	1,370	10,734	0.87	10	1.89	2.38	53.4	60.3	40.6	41,890	41,890	1.00	52,624	51,254	0.97
				20	3.79	8.54	49.6	58.5	39.6	46,650	46,650	1.00	57,384	56,014	0.98						
				30	5.68	18.03	48.2	57.8	39.2	48,531	48,531	1.00	59,265	57,895	0.98						
		40	63.5	76.26	60.72	9,336	10,836	20,172	0.46	10	1.89	2.38	53.3	60.3	54.6	41,798	41,798	1.00	61,970	51,134	0.83
						20	3.79	8.54	49.8	58.1	53.7	47,961	47,583	0.99	68,133	56,919	0.84				
						30	5.68	18.03	48.4	57.6	53.2	51,157	48,978	0.96	71,329	58,314	0.82				
	75	73.8	76.26	70.57	9,307	20,139	29,446	0.32	10	1.89	2.38	58.2	64.2	62.8	66,300	31,723	0.48	95,746	41,030	0.43	
					20	3.79	8.54	53.5	61.5	60.3	84,813	38,696	0.46	114,259	48,003	0.42					
					30	5.68	18.03	51.2	60.2	59.2	93,155	42,030	0.45	122,601	51,337	0.42					
	95	5	57.7	80.00	50.53	37,323	6,362	43,685	0.85	10	1.89	2.38	54.4	62.1	41.9	46,933	46,933	1.00	90,618	84,256	0.93
						20	3.79	8.54	50.2	60.1	40.8	52,243	52,243	1.00	95,928	89,566	0.93				
						30	5.68	18.03	48.6	59.3	40.4	54,344	54,344	1.00	98,029	91,667	0.94				
		40	75.1	79.98	64.53	37,193	53,843	91,036	0.41	10	1.89	2.38	54.9	62.2	57.8	49,755	46,639	0.94	140,791	83,832	0.60
						20	3.79	8.54	51.0	60.6	56.2	60,307	50,929	0.84	151,343	88,122	0.58				
						30	5.68	18.03	49.4	59.6	55.4	66,182	53,411	0.81	157,218	90,604	0.58				
	75	87.7	79.95	75.42	37,062	102,907	139,969	0.26	10	1.89	2.38	61.3	67.7	66.7	81,790	32,406	0.40	221,759	69,468	0.31	
					20	3.79	8.54	55.5	64.5	63.8	105,486	40,779	0.39	245,455	77,841	0.32					
					30	5.68	18.03	52.7	62.9	62.4	116,187	44,843	0.39	256,156	81,905	0.32					
110	5	57.7	83.65	52.67	65,084	14,177	79,261	0.82	10	1.89	2.38	55.4	63.9	43.5	51,929	51,929	1.00	107,585	117,013	1.088	
					20	3.79	8.54	50.8	61.7	42.4	57,778	57,778	1.00	113,434	122,862	1.083					
					30	5.68	18.03	49.0	60.8	41.9	60,095	60,095	1.00	115,751	125,179	1.081					
	40	75.1	83.60	69.10	64,815	119,306	184,121	0.35	10	1.89	2.38	57.3	65.6	61.5	61,617	47,252	0.77	191,914	112,067	0.584	
					20	3.79	8.54	52.8	63.1	59.2	78,390	53,698	0.69	208,687	118,513	0.568					
					30	5.68	18.03	50.7	62.0	58.2	86,069	56,816	0.66	216,366	121,631	0.562					
75	87.7	83.55	81.41	64,543	232,054	296,597	0.22	10	1.89	2.38	65.4	72.0	71.8	102,433	30,473	0.30	312,740	95,016	0.304		
				20	3.79	8.54	58.4	68.1	68.1	133,963	40,649	0.30	344,270	105,192	0.306						
				30	5.68	18.03	54.8	66.2	66.2	148,131	45,653	0.31	358,438	110,196	0.307						
3000	80	5	50.4	76.49	48.58	10,990	1,567	12,557	0.88	10	1.89	2.38	54.6	61.9	41.4	47,933	47,933	1.00	60,490	58,923	0.97
				20	3.79	8.54	50.4	59.9	40.4	54,381	54,381	1.00	66,938	65,371	0.98						
				30	5.68	18.03	48.8	59.1	39.9	56,999	56,999	1.00	69,556	67,989	0.98						
		40	63.5	76.48	60.92	10,960	10,401	21,361	0.51	10	1.89	2.38	54.6	61.8	55.3	48,160	48,160	1.00	69,521	59,120	0.85
						20	3.79	8.54	50.5	59.7	54.5	55,027	55,027	1.00	76,388	65,987	0.86				
						30	5.68	18.03	48.9	58.9	54.0	58,928	57,876	0.98	80,289	68,836	0.86				
	75	73.8	76.48	70.82	10,930	23,060	33,990	0.32	10	1.89	2.38	59.3	65.8	64.1	71,525	35,241	0.49	105,515	46,171	0.44	
					20	3.79	8.54	54.4	64.2	61.8	94,227	43,497	0.46	128,217	54,427	0.42					
					30	5.68	18.03	52.0	62.0	60.7	105,025	47,665	0.45	139,015	58,595	0.42					
	95	5	57.7	80.88	51.00	43,807	7,284	51,091	0.86	10	1.89	2.38	55.9	64.2	43.1	54,688	54,688	1.00	105,779	98,495	0.93
						20	3.79	8.54	51.2	62.0	41.9	62,000	62,000	1.00	113,091	105,807	0.94				
						30	5.68	18.03	49.3	61.1	41.5	64,973	64,973	1.00	116,064	108,780	0.94				
		40	75.1	80.85	65.36	43,669	61,683	105,352	0.41	10	1.89	2.38	56.5	64.1	59.3	57,881	55,018	0.95	163,233	98,687	0.60
						20	3.79	8.54	52.0	62.6	57.9	70,469	59,976	0.85	175,821	103,645	0.59				
						30	5.68	18.03	50.2	61.7	57.0	77,945	63,033	0.81	183,297	106,702	0.58				
	75	87.7	80.82	76.49	43,529	119,024	162,553	0.27	10	1.89	2.38	63.1	70.1	69.0	90,822	35,082	0.39	253,375	78,611	0.31	
					20	3.79	8.54	57.1	67.0	66.3	121,118	45,198	0.37	283,671	88,727	0.31					
					30	5.68	18.03	54.0	65.5	64.9	135,389	50,331	0.37	297,942	93,860	0.32					
110	5	57.7	85.17	53.49	76,398	16,248	92,646	0.82	10	1.89	2.38	57.2	66.5	45.0	61,302	61,302	1.00	116,958	137,700	1.177	
					20	3.79	8.54	51.9	64.0	43.8	69,451	69,451	1.00	125,107	145,849	1.166					
					30	5.68	18.03	49.8	63.0	43.3	72,769	72,769	1.00	128,425	149,167	1.162					
	40	75.1	85.10	70.61	76,106	136,814	212,920	0.36	10	1.89	2.38	59.2	68.3	63.8	71,130	55,015	0.77	201,427	131,121	0.651	
					20	3.79	8.54	54.3	65.9	61.6	92,855	62,954	0.68	223,152	139,060	0.623					
					30	5.68	18.03	51.9	64.7	60.5	103,488	67,071	0.65	233,785	143,177	0.612					
75	87.7	85.03	83.26	75,811	266,272	342,083	0.22	10	1.89	2.38	68.1	75.3	75.2	115,586	31,737	0.27	325,893	107,548	0.330		
				20	3.79	8.54	60.6	71.6	71.6	156,632	43,945	0.28	366,939	119,756	0.326						
				30	5.68	18.03	56.7	69.6	69.6	176,480	50,427	0.29	386,787	126,238	0.326						
3600	80	5	50.4	76.71	48.70	12,327	1,705	14,032	0.88	10	1.89	2.38	55.6	63.2	42.1	53,154	53,154	1.00	67,186	65,481	0.97
				20	3.79	8.54	51.1	61.1	41.0	61,287	61,287	1.00	75,319	73,614	0.98						
				30	5.68	18.03	49.3	60.3	40.6	64,671	64,671	1.00	78,703	76,998	0.98						
		40	63.5	76.70	61.13	12,298	13,505	25,803	0.48	10	1.89	2.38	55.6	63.2	56.0	53,339	53,339	1.00	79,142	65,637	0.83
						20	3.79	8.54	51.2	60.9	55.1	62,256	62,256	1.00	88,059	74,554	0.85				
						30	5.68	18.03	49.4	59.9	54.7	66,051	66,051	1.00	91,854	78,349	0.85				
	75	73.8	76.70	71.06	12,269	25,129	37,398	0.33	10	1.89	2.38	60.2	67.0	65.3	76,041	38,103	0.50	113,439	50,372	0.44	
					20	3.79	8.54	55.2	64.7	63.1	102,440	47,420	0.46	139,838	59,689	0.43					
					30	5.68	18.03	52.7	63.4	62.0	115,516	52,315	0.45	152,914	64,584	0.42					
	95	5	57.7	81.75	51.47	49,158	7,940	57,098	0.86	10	1.89	2.38	57.3	66.1	44.1	61,806	61,806	1.00	118,904	110,964	0.93
						20	3.79	8.54	52.1	63.7	42.9	71,188	71,188	1.00	128,286	120,346	0.94				
						30	5.68	18.03	50.0	62.7	42.4	75,098	75,098	1.00	132,196	124,256	0.94				
		40	75.1	81.72	66.18	49,023	67,287	116,310	0.42	10	1.89	2.38	57.9	65.8	60.6	64,572	62,592	0.97	180,882	111,615	0.62
						20	3.79	8.54	52.9	64.3	59.2	79,658	68,563	0.86	195,968						