



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

CHILLED WATER COIL
TOTAL UNIT COOLING CAPACITY

EVT-046 **EVT-046**

EVT-046 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
3000	80	5	50.4	75.0	47.8	66.87	73.25	76.27	48.46	11,701	1,711	13,412	0.87	18	1.97	2.61	51.3	58.8	39.8	57,152	57,152	1.00	70,564	68,853	0.98
														36	3.94	9.48	48.4	57.4	39.0	61,951	61,951	1.00	75,363	73,652	0.98
														54	5.91	20.16	47.4	56.8	38.7	63,793	63,793	1.00	77,205	75,494	0.98
		18	1.97		2.61	51.4	58.7	54.0	57,552	57,552	1.00	93,640	73,460	0.78											
		36	3.94		9.48	48.5	57.3	53.1	64,106	62,196	0.97	100,194	78,104	0.78											
		54	5.91		20.18	47.5	56.9	52.7	67,301	63,603	0.95	103,389	79,511	0.77											
	18	1.97	2.61	55.5	62.8	61.5	94,864	44,307	0.47	131,652	55,936	0.42													
	36	3.94	9.48	51.3	60.5	59.5	113,795	51,618	0.45	150,583	63,247	0.42													
	54	5.91	20.18	49.5	59.5	58.6	121,819	54,866	0.45	158,607	66,495	0.42													
	18	1.97	2.61	52.1	60.5	41.2	63,994	63,994	1.00	118,577	110,629	0.93													
	36	3.94	9.46	48.8	58.9	40.3	69,349	69,349	1.00	123,932	115,984	0.94													
	54	5.91	20.18	47.6	58.2	40.0	71,406	71,406	1.00	125,989	118,041	0.94													
	18	1.97	2.61	52.7	61.1	57.0	69,697	61,895	0.89	183,435	108,367	0.59													
	36	3.94	9.46	49.5	59.6	55.6	81,704	66,853	0.82	195,442	113,325	0.58													
	54	5.91	20.18	48.2	58.9	55.0	87,247	69,217	0.79	200,985	115,689	0.58													
	18	1.97	2.61	58.1	66.1	65.3	118,034	45,744	0.39	292,905	92,053	0.31													
	36	3.94	9.46	52.9	63.3	62.8	142,890	54,797	0.38	317,761	101,106	0.32													
	54	5.91	20.18	50.7	62.1	61.8	153,228	58,790	0.38	328,099	105,099	0.32													
18	1.88	2.40	52.8	62.1	42.6	70,785	70,785	1.00	169,819	152,107	0.896														
36	3.75	8.56	49.2	60.3	41.7	76,689	76,689	1.00	175,723	158,011	0.899														
54	5.63	18.08	47.9	59.6	41.3	78,960	78,960	1.00	177,994	160,282	0.900														
18	1.88	2.40	54.8	64.2	60.4	88,166	63,983	0.73	318,201	144,969	0.456														
36	3.75	8.56	50.9	62.1	58.5	105,833	70,923	0.67	335,868	151,909	0.452														
54	5.63	18.08	49.2	61.2	57.7	112,920	73,832	0.65	342,955	154,818	0.451														
18	1.88	2.40	61.5	70.1	70.1	148,858	44,180	0.30	519,411	124,826	0.240														
36	3.75	8.56	55.1	66.7	66.7	182,071	55,318	0.30	552,624	135,964	0.246														
54	5.63	18.08	52.2	65.2	65.2	196,140	60,401	0.31	566,693	141,047	0.249														
3800	80	5	50.4	75.0	47.8	60.80	68.50	76.51	48.59	13,853	1,971	15,824	0.88	18	1.97	2.61	52.4	60.5	40.7	66,373	66,373	1.00	82,197	80,226	0.98
														36	3.94	9.46	48.8	58.9	39.8	73,085	73,085	1.00	88,909	86,938	0.98
														54	5.91	20.18	47.8	58.3	39.5	75,720	75,720	1.00	91,544	89,573	0.98
		18	1.97		2.61	52.3	60.5	54.9	66,353	66,353	1.00	95,769	80,169	0.84											
		36	3.94		9.46	49.1	58.7	54.1	74,770	73,885	0.99	104,186	87,701	0.84											
		54	5.91		20.18	47.9	58.3	53.7	78,790	75,624	0.96	108,206	89,440	0.83											
	18	1.97	2.61	56.7	64.6	63.2	105,312	49,386	0.47	148,100	63,164	0.43													
	36	3.94	9.46	52.2	62.4	61.2	130,060	58,593	0.45	172,848	72,371	0.42													
	54	5.91	20.18	50.2	61.4	60.3	140,716	62,758	0.45	183,504	76,536	0.42													
	18	1.97	2.60	53.4	62.7	42.3	75,903	75,903	1.00	140,289	131,125	0.93													
	36	3.94	9.44	49.6	60.9	41.3	83,544	83,544	1.00	147,930	138,766	0.94													
	54	5.91	20.16	48.2	60.2	40.9	86,546	86,546	1.00	150,932	141,768	0.94													
	18	1.97	2.60	54.0	63.3	58.7	81,306	73,604	0.91	213,957	128,652	0.60													
	36	3.94	9.44	50.3	61.8	57.3	96,662	79,741	0.82	229,313	134,789	0.59													
	54	5.91	20.16	48.8	61.1	56.6	104,221	82,864	0.80	236,872	137,912	0.58													
	18	1.97	2.60	59.9	68.7	67.8	134,021	50,645	0.38	337,300	105,518	0.31													
	36	3.94	9.44	54.2	66.0	65.4	166,915	61,975	0.37	370,194	116,848	0.32													
	54	5.91	20.15	51.7	64.7	64.3	181,377	67,276	0.37	384,656	122,149	0.32													
18	1.88	2.40	54.4	64.8	44.2	85,024	85,024	1.00	184,058	181,328	0.985														
36	3.75	8.56	50.2	62.8	43.2	93,541	93,541	1.00	192,575	189,845	0.986														
54	5.63	18.08	54.0	62.0	42.8	96,894	96,894	1.00	195,928	193,198	0.986														
18	1.88	2.40	56.5	67.2	63.0	103,818	75,224	0.72	333,853	171,164	0.513														
36	3.75	8.56	52.1	65.0	61.0	128,075	84,280	0.66	358,110	180,220	0.503														
54	5.63	18.08	50.1	64.0	60.1	138,818	88,492	0.64	368,853	184,432	0.500														
18	1.88	2.40	64.1	73.8	73.8	172,678	47,465	0.27	543,231	143,035	0.263														
36	3.75	8.56	57.1	70.4	70.4	218,111	61,508	0.28	588,664	157,078	0.267														
54	5.63	18.08	53.8	68.8	68.8	238,297	68,267	0.29	608,850	163,837	0.269														
4600	80	5	50.4	75.0	47.8	54.71	63.73	76.75	48.73	15,596	2,148	17,744	0.88	18	1.97	2.60	53.3	62.0	41.4	74,636	74,636	1.00	92,380	90,232	0.98
														36	3.94	9.44	49.6	60.2	40.5	83,321	83,321	1.00	101,065	98,917	0.98
														54	5.91	20.14	48.2	59.5	40.1	86,801	86,801	1.00	104,545	102,397	0.98
		18	1.97		2.60	53.3	61.8	55.6	75,007	75,007	1.00	107,574	90,567	0.84											
		36	3.94		9.44	49.6	60.0	54.9	84,069	84,069	1.00	116,636	99,629	0.85											
		54	5.91		20.14	48.3	59.4	54.5	88,901	86,909	0.98	121,468	102,469	0.84											
	18	1.97	2.60	57.4	65.9	64.3	112,166	54,115	0.48	159,338	69,639	0.44													
	36	3.94	9.44	52.8	63.8	62.4	141,728	64,812	0.46	188,900	80,336	0.43													
	54	5.91	20.13	50.7	62.8	61.5	155,204	69,938	0.45	202,376	85,462	0.42													
	18	1.97	2.59	54.6	64.7	43.5	86,692	86,692	1.00	158,891	148,890	0.94													
	36	3.94	9.42	50.4	62.7	42.5	96,716	96,716	1.00	168,915	158,914	0.94													
	54	5.91	20.13	48.7	61.9	42.1	100,738	100,738	1.00	172,937	162,936	0.94													
	18	1.97	2.59	55.3	65.0	60.0	92,697	84,920	0.92	239,488	146,950	0.61													
	36	3.94	9.42	51.1	63.7	58.7	110,292	91,761	0.83	257,083	153,791	0.60													
	54	5.91	20.13	49.4	62.9	58.0	120,151	95,725	0.80	266,942	157,755	0.59													
	18	1.97	2.59	61.4	70.9	69.9	147,531	54,807	0.37	371,619	116,688	0.31													
	36	3.94	9.42	55.4	68.2	67.5	188,323	68,199	0.36	412,411	130,060	0.32													
	54	5.91	20.13	52.6	66.9	66.4	206,898	74,703	0.36	430,986	136,564	0.32													
18	1.88	2.40	55.9	67.3	45.6	98,534	98,534	1.00	197,568	207,053	1.048														
36	3.75	8.56	51.1	65.1	44.5	109,856	109,856	1.00	218,375	218,375	1.045														
54	5.63	18.08	54.0	64.2	44.1	114,408	114,408	1.00	213,442	222,927	1.044														
18	1.88	2.40	58.1	69.8	65.2	118,328	85,862	0.73	348,363	194,025	0.557														
36	3.75	8.56	53.3	67.6	63.2	149,189	96,859	0.65	379,224	205,022	0.541														
54	5.63	18.08	51.0	66.6	62.3	163,295	102,153	0.63	393,330	210,316	0.535														
18	1.88	2.40	66.4	76.9	76.8	193,309	49,981	0.26	563,862	157,782	0.280														
36	3.75	8.56	58.9	73.6	73.6	250,866	66,532	0.27	621,419	174,333	0.281														
54	5.63	18.08	55.2	71.9	71.9	277,389	74,817	0.27	647,942	182,618	0.282														

NOTES: 1. Entering water temperature is



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EVT-062

**CHILLED WATER COIL
TOTAL UNIT COOLING CAPACITY**

EVT-062

EVT-062 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	
3400	80	5	50.4	75.0	47.8	71.46	76.85	76.10	48.36	13,916	2,073	15,989	0.87	18	1.97	2.61	52.6	57.5	39.1	69,073	69,073	1.00	85,062	82,989	0.98	
		36	3.94		9.46	49.2	55.6	38.0	76,062	75,062	0.99	92,051	88,978	0.97												
		54	6.02		20.18	47.9	54.9	37.6	78,760	78,760	1.00	94,749	92,676	0.98												
	40	63.5	59.6	71.54	76.91	76.09	60.57	13,871	16,390	30,261	0.46	18	1.97	2.61	52.6	57.5	53.4	69,101	69,101	1.00	99,362	82,972	0.84			
	36	3.94	9.46	49.3	55.5	52.5	77,864	76,716	0.99	108,125	90,587	0.84														
	54	6.02	20.18	48.0	55.0	52.0	81,945	78,504	0.96	112,206	92,375	0.82														
	75	73.8	69.2	71.62	76.97	76.09	70.39	13,825	30,452	44,277	0.31	18	1.97	2.61	56.9	62.2	61.3	107,846	51,748	0.48	152,123	65,573	0.43			
	36	3.94	9.46	52.4	59.6	58.8	133,677	61,513	0.46	177,954	75,338	0.42														
	54	6.02	20.18	50.4	58.3	57.7	145,154	66,078	0.46	189,431	79,903	0.42														
	95	5	57.7	47.8	71.71	77.08	79.34	50.18	55,472	9,622	65,094	0.85	18	1.97	2.61	53.4	58.8	40.2	76,214	76,214	1.00	141,308	131,686	0.93		
		36	3.94	9.46	49.6	56.7	39.1	83,900	83,900	1.00	148,994	139,372	0.94													
		54	6.02	20.18	48.2	55.9	38.6	86,870	86,870	1.00	151,964	142,342	0.94													
40		75.1	59.6	71.82	77.17	79.33	63.90	55,268	81,408	136,676	0.40	18	1.97	2.61	53.8	59.1	56.1	79,954	75,065	0.94	126,630	130,333	0.60			
36		3.94	9.46	50.2	57.6	54.6	93,757	80,738	0.86	230,433	136,006	0.59														
54		6.02	20.18	48.7	56.8	53.9	100,758	83,703	0.83	237,434	138,971	0.59														
75	87.7	69.2	71.92	77.26	79.31	74.63	55,063	155,539	210,602	0.26	18	1.97	2.61	59.4	65.1	64.5	129,820	52,628	0.41	340,422	107,691	0.32				
36	3.94	9.46	54.0	62.0	61.6	162,492	64,319	0.40	373,094	119,382	0.32															
54	6.02	20.18	51.5	60.5	60.2	176,662	69,711	0.39	387,264	124,774	0.32															
110	5	57.7	47.8	72.0	77.3	82.52	52.05	96,745	21,434	118,179	0.82	18	1.88	2.40	54.2	60.1	41.4	83,361	83,361	1.00	182,395	180,106	0.987			
	36	3.75	8.56	50.1	57.8	40.3	91,740	91,740	1.00	190,774	188,485	0.988														
	54	5.63	18.08	48.5	57.0	39.8	94,981	94,981	1.00	194,015	191,726	0.988														
	40	75.1	59.6	72.1	77.4	82.48	67.94	96,329	180,310	276,639	0.35	18	1.88	2.40	55.6	62.0	59.2	95,950	76,039	0.79	325,985	172,368	0.529			
	36	3.75	8.56	51.5	59.8	57.1	117,213	84,347	0.72	347,248	180,676	0.520														
	54	5.63	18.08	49.7	58.8	56.1	126,900	88,300	0.70	356,935	184,629	0.517														
75	87.7	69.2	72.3	77.6	82.44	79.97	95,909	350,590	446,499	0.21	18	1.88	2.40	62.8	69.0	68.9	160,472	49,932	0.31	531,025	145,841	0.275				
36	3.75	8.56	56.2	65.2	65.2	202,921	63,977	0.32	573,474	159,886	0.279															
54	5.63	18.08	53.2	63.4	63.4	221,321	70,544	0.32	591,874	166,453	0.281															
4800	80	5	50.4	75.0	47.8	63.98	70.99	76.39	48.53	18,139	2,620	20,759	0.87	18	1.97	2.60	54.4	60.2	40.4	84,957	84,957	1.00	105,716	103,096	0.98	
		36	3.94		9.44	50.3	58.1	39.3	96,305	96,305	1.00	117,064	114,444	0.98												
		54	6.02		20.13	48.7	57.2	38.8	100,883	100,883	1.00	121,642	119,022	0.98												
	40	63.5	59.6	64.09	71.08	76.39	60.84	18,087	20,729	38,816	0.47	18	1.97	2.60	54.3	60.3	54.6	84,532	84,532	1.00	123,348	102,619	0.83			
	36	3.94	9.44	50.3	58.0	53.7	96,544	96,544	1.00	135,360	114,631	0.85														
	54	6.02	20.14	48.8	56.9	53.3	102,258	102,228	1.00	141,074	120,315	0.85														
	75	73.8	69.2	64.20	71.17	76.38	70.71	18,034	38,536	56,570	0.32	18	1.97	2.60	58.5	64.8	63.6	121,484	60,877	0.50	178,054	78,911	0.44			
	36	3.94	9.44	53.7	62.3	61.2	157,954	73,959	0.47	214,524	91,993	0.43														
	54	6.02	20.13	51.5	61.1	60.1	174,842	80,341	0.46	231,412	98,375	0.43														
	95	5	57.7	47.8	64.25	71.31	80.51	50.80	72,298	12,173	84,471	0.86	18	1.97	2.59	55.7	62.2	42.0	96,142	96,142	1.00	180,613	168,440	0.93		
		36	3.94	9.42	51.0	59.7	40.7	108,915	108,915	1.00	193,386	181,213	0.94													
		54	6.02	20.13	49.2	58.8	40.2	114,075	114,075	1.00	198,546	186,373	0.94													
40		75.1	59.6	64.48	71.44	80.48	65.02	72,057	103,050	175,107	0.41	18	1.97	2.59	59.9	62.1	58.4	98,553	96,792	0.98	273,660	168,849	0.62			
36		3.94	9.42	51.5	60.6	57.0	118,277	104,539	0.88	293,384	176,596	0.60														
54		6.02	20.13	49.7	59.8	56.3	128,466	108,667	0.85	303,573	180,724	0.60														
75	87.7	69.2	64.63	71.56	80.46	76.01	71,815	197,006	268,821	0.27	18	1.97	2.59	61.8	68.9	68.0	151,979	60,797	0.40	420,800	132,612	0.32				
36	3.94	9.42	56.1	65.9	65.2	199,979	76,665	0.38	468,800	148,480	0.32															
54	6.02	20.13	53.2	64.4	63.9	222,455	84,596	0.38	491,276	156,411	0.32															
110	5	57.7	47.8	64.7	71.6	84.53	53.14	126,074	27,138	153,212	0.82	18	1.88	2.40	56.9	64.1	43.7	107,074	107,074	1.00	206,108	233,148	1.131			
	36	3.75	8.56	51.7	62.3	61.4	121,225	121,225	1.00	220,259	247,299	1.123														
	54	5.63	18.08	49.7	60.3	41.8	126,948	126,948	1.00	225,982	253,022	1.120														
	40	75.1	59.6	64.9	71.8	84.47	69.98	125,572	228,440	354,012	0.35	18	1.88	2.40	58.3	66.1	62.8	119,841	96,345	0.80	349,876	221,917	0.634			
	36	3.75	8.56	53.4	63.9	60.7	151,926	108,016	0.71	381,961	233,588	0.612														
	54	5.63	18.08	51.2	62.7	59.6	168,321	114,273	0.68	398,356	239,845	0.602														
75	87.7	69.2	65.1	72.0	84.41	82.49	125,064	444,453	569,517	0.22	18	1.88	2.40	66.4	74.0	73.8	192,678	54,701	0.28	563,231	179,765	0.319				
36	3.75	8.56	59.2	70.4	70.4	256,430	73,543	0.29	626,983	198,607	0.317															
54	5.63	18.08	55.6	68.5	68.5	287,252	83,418	0.29	657,805	208,482	0.317															
6200	80	5	50.4	75.0	47.8	56.47	65.11	76.69	48.70	21,477	2,987	24,464	0.88	18	1.97	2.58	55.8	62.3	41.6	97,788	97,788	1.00	122,252	119,265	0.98	
		36	3.94		9.42	51.3	60.0	40.4	113,470	113,470	1.00	137,934	134,947	0.98												
		54	6.02		20.13	49.4	59.0	39.9	120,033	120,033	1.00	144,497	141,510	0.98												
	40	63.5	59.6	56.62	65.23	76.68	61.10	21,425	23,654	45,079	0.48	18	1.97	2.58	55.9	62.2	55.6	98,636	98,636	1.00	143,715	120,061	0.84			
	36	3.94	9.42	51.3	60.0	54.8	113,064	113,064	1.00	158,143	134,489	0.85														
	54	6.02	20.13	49.4	59.0	54.3	120,336	120,336	1.00	165,415	141,761	0.86														
	75	73.8	69.2	56.76	65.34	76.68	71.04	21,373	44,007	65,380	0.33	18	1.97	2.58	59.6	66.6	65.1	131,356	68,616	0.52	196,736	89,989	0.46			
	36	3.94	9.42	54.8	64.3	63.0	176,379	84,165	0.48	241,759	105,538	0.44														
	54	6.02	20.13	52.3	63.1	61.9	198,183	92,091	0.46	263,563	113,464	0.43														
	95	5	57.7	47.8	56.95	65.54	81.66	51.42	85,639	13,904	99,543	0.86	18	1.97	2.57	57.6	65.0	43.5	113,402	113,402	1.00	212,945	199,041			