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DX COIL
EVT-010 TOTAL UNIT COOLING CAPACITY

EVT-010 TOTAL UNIT COOLING CAPACITY -- DIRECT EXPANSION COIL																									
SUMMER APPLICATION RATINGS - ENTHALPY WHEEL														PERFORMANCE RATINGS - DIRECT EXPANSION COIL					UNIT PERFORMANCE						
AIR VOLUME (cfm)	OA CONDITIONS			RA CONDITIONS				EFFECTIVENESS				AIR-LVG WHL / ENT DXC			REFRIGERANT DATA		LVG AIR TEMP			COOLING CAP--DX 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	SUC TEMP (deg F)	PR DROP (psi)	DB (deg F)	WB (deg F)	TOTAL (Btuh)	SENS (Btuh)	S/T	TOTAL (Btuh)	SENS (Btuh)	S/T		
600	80	5	50.4	75.0	47.8	77.3	81.8	75.84	48.25	2,614	396	3,010	0.87	40	1.64	59.2	40.2	10,763	10,763	1.00	13,773	13,773	0.97		
														45	1.24	62.1	41.5	8,934	8,934	1.00	11,944	11,548	0.97		
														50	0.95	64.9	43.0	7,108	7,108	1.00	10,118	9,722	0.96		
		40	63.5		59.6	77.3	81.8	75.84	60.35	2,605	3,127	5,732	0.45	40	1.74	58.9	53.7	11,390	10,973	0.96	17,122	13,578	0.79		
														45	1.24	62.1	55.2	8,934	8,934	1.00	14,666	11,539	0.79		
														50	0.95	64.9	56.3	7,108	7,108	1.00	12,840	9,713	0.76		
	75	73.8	69.2	77.4	81.9	75.84	70.12	2,596	5,807	8,403	0.31	40	4.82	60.5	59.6	21,368	9,919	0.46	29,771	12,515	0.42				
												45	3.00	63.5	61.8	17,283	7,988	0.46	25,686	10,584	0.41				
												50	1.83	66.0	64.1	12,918	6,387	0.49	21,321	8,983	0.42				
	95	5	57.7	75.0	47.8	77.4	81.9	78.34	49.59	10,426	1,571	11,997	0.87	40	1.79	60.3	40.9	11,667	11,667	1.00	23,664	22,093	0.93		
														45	1.38	63.2	42.4	9,821	9,821	1.00	21,818	20,247	0.93		
														50	1.06	66.0	43.8	8,001	8,001	1.00	19,998	18,427	0.92		
		40	75.1		59.6	77.5	82.0	78.33	62.96	10,386	15,528	25,914	0.40	40	2.33	60.2	55.2	13,981	11,740	0.84	39,895	22,126	0.55		
														45	1.38	63.2	57.6	9,821	9,821	1.00	35,735	20,207	0.57		
														50	1.06	66.0	58.6	8,001	8,001	1.00	33,915	18,387	0.54		
	75	87.7	69.2	77.6	82.1	78.31	73.47	10,345	29,657	40,002	0.26	40	6.45	62.3	61.8	25,316	10,386	0.41	65,318	20,731	0.32				
												45	4.32	65.0	64.0	21,170	8,637	0.41	61,172	18,982	0.31				
												50	2.65	67.5	68.1	16,665	7,007	0.42	56,667	17,352	0.31				
110	5	64.6	75.0	47.8	77.6	82.1	80.79	51.08	18,191	3,936	22,127	0.82	40	2.01	61.4	41.9	12,553	12,553	1.00	34,680	30,744	0.89			
													45	1.51	64.2	43.4	10,723	10,723	1.00	32,850	28,914	0.88			
													50	1.16	67.1	44.8	8,869	8,869	1.00	30,996	27,060	0.87			
	40	86.8		59.6	77.7	82.2	80.76	66.20	18,111	34,390	52,501	0.34	40	3.21	61.8	57.1	17,145	12,266	0.72	69,646	30,377	0.44			
													45	1.98	64.5	59.4	13,132	10,551	0.80	65,633	28,662	0.44			
													50	1.16	67.1	61.7	8,869	8,869	1.00	61,370	26,980	0.44			
75	101.7	69.2	77.8	82.3	80.73	77.79	18,029	66,845	84,874	0.21	40	9.37	64.4	64.2	30,642	10,582	0.35	115,516	28,611	0.25					
											45	6.41	66.7	66.6	26,447	9,075	0.34	111,321	27,104	0.24					
											50	4.26	69.0	68.8	21,943	7,626	0.35	106,817	25,655	0.24					
800	80	5	50.4	75.0	47.8	73.4	78.6	76.00	48.33	3,348	501	3,849	0.87	40	2.07	61.1	41.1	12,843	12,843	1.00	16,692	16,191	0.97		
														45	1.51	63.7	42.4	10,658	10,658	1.00	14,507	14,006	0.97		
														50	1.13	66.2	43.6	8,461	8,461	1.00	12,310	11,809	0.96		
		40	63.5		59.6	73.4	78.6	76.00	60.49	3,337	3,958	7,295	0.46	40	2.13	60.9	54.7	13,218	13,016	0.98	20,513	16,353	0.80		
														45	1.51	63.7	55.8	10,658	10,658	1.00	17,953	13,995	0.78		
														50	1.13	66.2	56.8	8,461	8,461	1.00	15,756	11,798	0.75		
	75	73.8	69.2	73.5	78.7	76.00	70.29	3,326	7,353	10,679	0.31	40	6.18	62.9	61.4	24,665	11,318	0.46	35,344	14,644	0.41				
												45	3.86	65.0	63.2	19,927	9,502	0.48	30,606	12,828	0.42				
												50	2.27	67.0	65.1	14,897	7,765	0.52	25,576	11,091	0.43				
	95	5	57.7	75.0	47.8	73.6	78.8	78.98	49.98	13,348	2,324	15,672	0.85	40	2.37	62.7	42.2	14,105	14,105	1.00	29,777	27,453	0.92		
														45	1.74	65.2	43.4	11,909	11,909	1.00	27,581	25,257	0.92		
														50	1.29	67.7	44.8	9,720	9,720	1.00	25,392	23,068	0.91		
		40	75.1		59.6	73.7	78.9	78.96	63.57	13,299	19,660	32,959	0.40	40	3.12	62.6	56.6	16,615	14,100	0.85	49,574	27,399	0.55		
														45	1.74	65.2	58.6	11,909	11,909	1.00	44,868	25,208	0.56		
														50	1.29	67.7	59.7	9,720	9,720	1.00	42,679	23,019	0.54		
	75	87.7	69.2	73.8	78.9	78.95	74.23	13,248	37,556	50,804	0.26	40	8.69	65.1	64.3	29,784	11,954	0.40	80,588	25,202	0.31				
												45	5.91	67.2	66.0	25,047	10,155	0.41	75,851	23,403	0.31				
												50	3.58	69.5	67.9	19,831	8,205	0.41	70,635	21,453	0.30				
110	5	64.6	75.0	47.8	73.8	79.0	81.89	51.68	23,285	4,982	28,267	0.82	40	2.69	64.1	43.4	15,346	15,346	1.00	43,613	38,631	0.89			
													45	2.01	66.7	44.6	13,143	13,143	1.00	41,410	36,428	0.88			
													50	1.47	69.2	45.8	10,948	10,948	1.00	39,215	34,233	0.87			
	40	86.8		59.6	73.9	79.1	81.85	67.34	23,184	43,541	66,725	0.35	40	4.49	64.7	59.2	20,874	14,819	0.71	87,599	38,003	0.43			
													45	2.76	66.7	61.1	16,202	13,050	0.81	82,927	36,234	0.44			
													50	1.52	69.1	63.1	11,268	11,032	0.98	77,993	34,216	0.44			
75	101.7	69.2	74.1	79.2	81.81	79.23	23,082	84,649	107,731	0.21	40	13.49	67.7	67.6	36,885	12,184	0.33	144,616	35,266	0.24					
											45	9.43	69.7	69.6	32,046	10,441	0.33	139,777	33,523	0.24					
											50	6.12	71.7	71.4	26,881	8,776	0.33	134,612	31,858	0.24					
1000	80	5	50.4	75.0	47.8	69.4	75.3	76.17	48.40	4,009	592	4,601	0.87	40	2.51	62.6	42.0	14,644	14,644	1.00	19,245	18,653	0.97		
														45	1.78	65.0	43.0	12,108	12,108	1.00	16,709	16,117	0.96		
														50	1.28	67.2	44.2	9,669	9,669	1.00	14,270	13,678	0.96		
		40	63.5		59.6	69.5	75.4	76.16	60.64	3,997	4,683	8,680	0.46	40	2.51	62.6	55.5	14,644	14,644	1.00	23,324	18,641	0.80		
														45	1.78	64.9	56.5	12,108	12,108	1.00	20,788	16,105	0.77		
														50	1.28	67.2	57.3	9,669	9,669	1.00	18,349	13,666	0.74		
	75	73.8	69.2	69.6	75.4	76.16	70.47	3,984	8,702	12,686	0.31	40	7.42	64.6	62.6	27,338	12,448	0.46	40,024	16,432	0.41				
												45	4.60	66.5	64.3	22,111	10,421	0.47	34,797	14,405	0.41				
												50	2.65	68.1	65.9	16,576	8,752	0.53	29,262	12,736	0.44				
	95	5	57.7	75.0	47.8	69.7	75.5	79.62	50.33	15,983	2,748	18,731	0.85	40	2.94	64.6	43.2	16,260	16,260	1.00	34,991	32,243	0.92		
														45	2.14	66.9	44.4	13,775	13,775	1.00	32,506	29,758	0.92		
														50	1.52	69.2	45.4	11,284	11,284	1.00	30,015	27,267	0.91		
		40	75.1		59.6	69.8	75.7	79.60	64.18	15,926	23,263	39,189	0.41	40	3.82	64.8	58.0	18,993	15,951	0.84	58,182	31,877	0.55		
														45	2.14	66.8	59.7	13,775	13,775	1.00	52,964	29,701	0.56		
														50	1.52	69.2	60.6	11,284	11,284	1.00	50,473	27,210	0.54		
	75	87.7	69.2	69.9	75.8	79.58	74.98	15,870	44,453	60,323	0.26	40	11.29	67.3	66.2	33,761	13,227	0.39	94,084	29,097	0.31				
												45	7.41	69.2	67.6</										

EVT-019

**DX COIL
TOTAL UNIT COOLING CAPACITY**

EVT-019

EVT-019 TOTAL UNIT COOLING CAPACITY -- DIRECT EXPANSION COIL																							
SUMMER APPLICATION RATINGS - ENTHALPY WHEEL														PERFORMANCE RATINGS - DIRECT EXPANSION COIL						UNIT PERFORMANCE			
AIR VOLUME (cfm)	OA CONDITIONS			RA CONDITIONS		EFFECTIVENESS		AIR-LVG WHL / ENT DXC		COOLING CAP--ENTHALPY WHEEL				REFRIGERANT DATA		LVG AIR TEMP		COOLING CAP--DX 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	SUC TEMP (deg F)	PR DROP (psi)	DB (deg F)	WB (deg F)	TOTAL (Btuh)	SENS (Btuh)	S/T	TOTAL (Btuh)	SENS (Btuh)	S/T

NOTES: 1. Entering liquid temperature is constant at 110°F. 2. Coil face area is 3.89 sq. ft. 3. All data based on balanced system (Exhaust cfm = Supply cfm).

