

EVT-062

**DX COIL
TOTAL UNIT COOLING CAPACITY**

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EVT-062 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	
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	40	1.70	54.6	37.8	79,120	79,120	1.00	95,109	93,036	0.98	
		40	63.5		59.6	71.54	76.91	76.09	60.57	13,871	16,390	30,261	0.46	45	1.17	57.8	39.1	67,130	67,130	1.00	83,119	81,046	0.98	
		75	73.8		69.2	71.62	76.97	76.09	70.39	13,825	30,452	44,277	0.31	50	0.76	61.1	40.8	55,100	55,100	1.00	71,089	69,016	0.97	
	95	5	57.7	75.0	47.8	71.71	77.08	79.34	50.18	55,472	9,622	65,094	0.85	40	1.99	55.7	38.4	86,770	86,770	1.00	151,864	142,242	0.94	
		40	75.1		59.6	71.82	77.17	79.33	63.90	55,268	81,408	136,676	0.40	45	1.41	58.9	40.2	74,810	74,810	1.00	139,904	130,282	0.93	
		75	87.7		69.2	71.92	77.26	79.31	74.63	55,063	155,539	210,602	0.26	50	0.96	62.2	41.8	62,790	62,790	1.00	127,884	118,262	0.92	
	110	5	64.6	75.0	47.8	72.0	77.3	82.52	52.05	96,745	21,434	118,179	0.82	40	2.31	56.8	39.7	94,430	94,430	1.00	212,609	191,175	0.90	
		40	86.8		59.6	72.1	77.4	82.48	67.94	96,329	180,310	276,639	0.35	45	1.67	60.0	41.4	82,500	82,500	1.00	200,679	179,245	0.89	
		75	101.7		69.2	72.3	77.6	82.44	79.97	95,909	350,590	446,499	0.21	50	1.17	63.3	43.0	70,490	70,490	1.00	188,669	167,235	0.89	
	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	40	2.53	57.2	38.7	99,720	99,720	1.00	120,479	117,859	0.98
			40	63.5		59.6	64.09	71.08	76.39	60.84	18,087	20,729	38,816	0.47	45	1.75	60.1	40.2	84,770	84,770	1.00	105,529	102,909	0.98
			75	73.8		69.2	64.20	71.17	76.38	70.71	18,034	38,536	56,570	0.32	50	1.15	63.0	41.7	69,710	69,710	1.00	90,469	87,849	0.97
95		5	57.7	75.0	47.8	64.25	71.31	80.51	50.80	72,298	12,173	84,471	0.86	40	3.05	59.1	40.3	111,000	111,000	1.00	195,471	183,298	0.94	
		40	75.1		59.6	64.48	71.44	80.48	65.02	72,057	103,050	175,107	0.41	45	2.22	61.8	41.7	97,110	97,110	1.00	181,581	169,408	0.93	
		75	87.7		69.2	64.63	71.56	80.46	76.01	71,815	197,006	268,821	0.27	50	1.52	64.7	43.2	82,080	82,080	1.00	166,551	154,378	0.93	
110		5	64.6	75.0	47.8	64.7	71.6	84.53	53.14	126,074	27,138	153,212	0.82	40	3.58	61.0	42.1	121,800	121,800	1.00	275,012	247,874	0.90	
		40	86.8		59.6	64.9	71.8	84.47	69.98	125,572	228,440	354,012	0.35	45	2.69	63.6	43.3	108,500	108,500	1.00	261,712	234,574	0.90	
		75	101.7		69.2	65.1	72.0	84.41	82.49	125,064	444,453	569,517	0.22	50	1.94	66.3	44.7	94,170	94,170	1.00	247,382	220,244	0.89	
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	40	3.28	59.4	40.0	115,700	115,700	1.00	140,164	137,177	0.98
			40	63.5		59.6	56.62	65.23	76.68	61.10	21,425	23,654	45,079	0.48	45	2.34	61.8	41.2	100,100	100,100	1.00	124,564	121,577	0.98
			75	73.8		69.2	56.76	65.34	76.68	71.04	21,373	44,007	65,380	0.33	50	1.54	64.4	42.5	82,510	82,510	1.00	106,974	103,987	0.97
	95	5	57.7	75.0	47.8	56.95	65.54	81.66	51.42	85,639	13,904	99,543	0.86	40	4.06	62.1	42.0	130,900	130,900	1.00	230,443	216,539	0.94	
		40	75.1		59.6	57.15	65.70	81.63	66.10	85,397	117,814	203,211	0.42	45	3.01	64.3	43.1	115,700	115,700	1.00	215,243	201,339	0.94	
		75	87.7		69.2	57.35	65.87	81.60	77.35	85,153	225,431	310,584	0.27	50	2.14	66.7	44.3	99,860	99,860	1.00	199,403	185,499	0.93	
	110	5	64.6	75.0	47.8	57.4	6.0	86.52	54.20	149,395	31,051	180,446	0.83	40	5.62	63.8	58.2	158,000	119,300	0.76	361,211	204,697	0.57	
		40	86.8		59.6	57.7	66.2	86.44	71.91	148,882	261,656	410,538	0.36	45	3.72	65.3	59.6	130,800	109,300	0.84	334,011	194,697	0.58	
		75	101.7		69.2	58.0	66.4	86.36	84.84	148,360	509,613	657,973	0.23	50	2.24	66.8	61.1	102,500	99,380	0.97	305,711	184,777	0.60	

NOTES: 1. Entering liquid temperature is constant at 110°F. 2. Coil face area is 11.71 sq. ft. 3. All data based on balanced system (Exhaust cfm = Supply cfm).