



3900 Dr. Greaves Rd.

Kansas City, MO 64030

(816) 761-7476

FAX (816) 765-8955

**EVT-100**

**DX COIL  
TOTAL UNIT COOLING CAPACITY**

**EVT-100**

EVT-100 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
7600	80	5	50.4	75.0	47.8	65.10	71.87	76.35	48.51	29,077	4,221	33,298	0.87	40	1.40	58.5	39.4	147,000	147,000	1.00	180,298	176,077	0.98
														45	0.96	61.2	40.8	124,600	124,600	1.00	157,898	153,677	0.97
														50	0.63	64.0	42.2	102,200	102,200	1.00	135,498	131,277	0.97
	80	40	63.5	75.0	59.6	65.20	71.95	76.35	60.80	28,991	33,391	62,382	0.46	40	1.61	59.1	53.5	159,300	142,400	0.89	221,682	171,391	0.77
														45	0.96	61.2	55.2	124,600	124,600	1.00	186,982	153,591	0.82
														50	0.63	64.0	56.2	102,200	102,200	1.00	164,582	131,191	0.80
	80	75	73.8	75.0	69.2	65.31	72.03	76.34	70.67	28,905	62,069	90,974	0.32	40	3.99	62.7	60.7	269,000	112,900	0.42	359,974	141,805	0.39
														45	2.83	64.2	62.2	231,300	99,910	0.43	322,274	128,815	0.40
														50	1.78	66.1	64.1	185,900	84,830	0.46	276,874	113,735	0.41
	95	5	57.7	75.0	47.8	65.43	72.17	80.35	50.72	115,891	19,606	135,497	0.86	40	1.70	60.3	40.9	164,400	164,400	1.00	299,897	280,291	0.93
														45	1.21	63.0	42.3	142,000	142,000	1.00	277,497	257,891	0.93
														50	0.82	65.7	43.6	119,600	119,600	1.00	255,097	235,491	0.92
95		40	75.1	75.0	59.6	65.58	72.29	80.33	64.87	115,498	165,964	281,462	0.41	40	2.50	61.7	56.2	205,100	152,900	0.75	486,562	268,398	0.55
														45	1.51	63.7	58.2	161,600	136,300	0.84	443,062	251,798	0.57
														50	0.83	65.7	60.0	120,200	102,200	1.00	401,662	235,698	0.59
95	75	87.7	75.0	69.2	65.72	72.41	80.31	75.83	115,103	317,250	432,353	0.27	40	5.63	66.3	64.8	328,500	114,700	0.35	760,853	229,803	0.30	
													45	4.16	67.8	66.3	289,300	102,400	0.35	721,653	217,503	0.30	
													50	2.93	69.4	67.8	248,000	89,890	0.36	680,353	204,993	0.30	
110	5	64.6	75.0	47.8	65.8	72.5	84.26	53.00	202,090	43,703	245,793	0.82	40	2.03	62.1	42.6	181,800	181,800	1.00	427,593	383,890	0.90	
													45	1.48	64.8	44.0	159,500	159,500	1.00	405,293	361,590	0.89	
													50	1.05	67.5	45.3	137,100	137,100	1.00	382,893	339,190	0.89	
	110	40	86.8	75.0	59.6	66.0	72.7	84.21	69.71	201,273	367,840	569,113	0.35	40	3.66	65.0	59.8	255,700	157,500	0.62	824,813	358,773	0.43
														45	2.56	66.6	61.4	218,600	144,500	0.66	787,713	345,773	0.44
														50	1.54	68.5	63.3	171,400	128,600	0.75	740,513	329,873	0.45
110	75	101.7	75.0	69.2	66.2	72.8	84.15	82.16	200,445	715,586	916,031	0.22	40	8.25	70.8	70.2	411,100	109,600	0.27	1,327,131	310,045	0.23	
													45	6.38	72.2	71.6	371,100	98,570	0.27	1,287,131	299,015	0.23	
													50	4.78	73.6	72.9	329,100	87,250	0.27	1,245,131	287,695	0.23	
8800	80	5	50.4	75.0	47.8	61.22	68.83	76.51	48.60	32,236	4,596	36,832	0.88	40	1.67	59.4	40.0	162,600	162,600	1.00	199,432	194,836	0.98
														45	1.15	62.0	41.3	137,900	137,900	1.00	174,732	170,136	0.97
														50	0.75	64.6	42.6	113,200	113,200	1.00	150,032	145,436	0.97
	80	40	63.5	75.0	59.6	61.34	68.93	76.50	60.94	32,148	36,374	68,522	0.47	40	1.89	59.9	54.0	175,000	158,100	0.90	243,522	190,248	0.78
														45	1.15	62.0	55.5	137,900	137,900	1.00	206,422	170,048	0.82
														50	0.75	64.6	56.5	113,100	113,100	1.00	181,622	145,248	0.80
	80	75	73.8	75.0	69.2	61.46	69.02	76.50	70.84	32,059	67,638	99,697	0.32	40	4.53	63.7	61.6	289,600	121,800	0.42	389,297	153,859	0.40
														45	3.18	65.2	63.1	247,800	107,800	0.44	347,497	139,859	0.40
														50	2.07	66.7	64.6	203,000	93,070	0.46	302,697	125,129	0.41
	95	5	57.7	75.0	47.8	61.61	69.19	80.95	51.04	128,494	21,365	149,859	0.86	40	2.08	61.5	41.6	184,300	184,300	1.00	334,159	312,794	0.94
														45	1.49	64.1	42.9	159,600	159,600	1.00	309,459	288,094	0.93
														50	1.02	66.7	44.2	134,900	134,900	1.00	284,759	263,394	0.92
95		40	75.1	75.0	59.6	61.78	69.33	80.92	65.43	128,088	180,925	309,013	0.41	40	2.96	63.1	57.2	226,500	169,700	0.75	535,513	297,788	0.56
														45	1.87	64.8	58.9	182,200	153,200	0.84	491,213	281,288	0.57
														50	1.03	66.6	60.7	135,800	135,800	1.00	444,813	263,888	0.59
95	75	87.7	75.0	69.2	61.95	69.47	80.90	76.53	127,678	345,985	473,663	0.27	40	6.55	68.0	66.4	359,000	122,900	0.34	832,663	250,578	0.30	
													45	4.91	69.3	67.7	318,400	110,500	0.35	792,063	238,178	0.30	
													50	3.48	70.7	69.0	274,100	97,410	0.36	747,763	225,088	0.30	
110	5	64.6	75.0	47.8	62.0	69.5	85.30	53.55	224,087	47,656	271,743	0.82	40	2.50	63.6	43.6	205,400	205,400	1.00	477,143	429,487	0.90	
													45	1.85	66.2	44.9	180,900	180,900	1.00	452,643	404,987	0.89	
													50	1.31	68.8	46.1	156,200	156,200	1.00	427,943	380,287	0.89	
	110	40	86.8	75.0	59.6	62.2	69.7	85.23	70.73	223,233	401,293	624,526	0.36	40	4.47	66.9	61.4	286,800	174,400	0.61	911,326	397,633	0.44
														45	3.14	68.3	62.9	246,000	160,400	0.65	870,526	383,633	0.44
														50	2.01	69.9	64.5	199,500	145,100	0.73	824,026	368,333	0.45
110	75	101.7	75.0	69.2	62.5	69.9	85.16	83.41	222,367	781,015	1,003,382	0.22	40	9.85	73.0	72.4	456,300	116,400	0.26	1,459,682	338,767	0.23	
													45	7.64	74.2	73.6	412,300	104,800	0.25	1,415,682	327,167	0.23	
													50	5.76	75.4	74.8	366,600	92,970	0.25	1,369,982	315,337	0.23	
10000	80	5	50.4	75.0	47.8	57.33	65.78	76.66	48.69	35,000	4,891	39,891	0.88	40	1.95	60.2	40.4	177,800	177,800	1.00	217,691	212,800	0.98
														45	1.35	62.7	41.7	151,000	151,000	1.00	190,891	186,000	0.97
														50	0.88	65.2	42.9	124,100	124,100	1.00	163,991	159,100	0.97
	80	40	63.5	75.0	59.6	57.47	65.89	76.65	61.08	34,913	38,725	73,638	0.47	40	2.21	60.6	54.5	191,100	173,400	0.91	264,738	208,313	0.79
														45	1.35	62.7	56.0	151,000	151,000	1.00	224,638	185,913	0.83
														50	0.88	65.2	56.9	124,000	124,000	1.00	197,638	158,913	0.80
	80	75	73.8	75.0	69.2	57.61	66.00	76.65	71.00	34,826	72,041	106,867	0.33	40	5.06	64.7	62.5	308,700	130,000	0.42	415,567	164,826	0.40
														45	3.58	66.0	63.8	265,000	115,500	0.44	371,867	150,326	0.40
														50	2.35	67.4	65.2	218,100	100,400	0.46	324,967	135,226	0.42
	95	5	57.7	75.0	47.8	57.79	66.20	81.55	51.36	139,547	22,760	162,307	0.86	40	2.46	62.7	42.3	203,500	203,500	1.00	365,807	343,047	0.94
														45	1.77	65.1	43.6						



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EVT-120

**DX COIL  
TOTAL UNIT COOLING CAPACITY**

EVT-120

EVT-120 TOTAL UNIT COOLING CAPACITY -- DIRECT EXPANSION COIL																								
AIR VOLUME (cfm)	SUMMER APPLICATION RATINGS - ENTHALPY WHEEL													PERFORMANCE RATINGS - DIRECT EXPANSION COIL						UNIT PERFORMANCE				
	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	
8000	80	5	50.4	75.0	47.8	67.76	73.95	76.25	48.45	31,501	4,625	36,126	0.87	40	1.88	56.2	38.3	174,000	174,000	1.00	210,126	205,501	0.98	
						67.85	74.02	76.25	60.71	31,403	36,578	67,981	0.46	45	1.30	59.2	39.9	147,600	147,600	1.00	183,726	179,101	0.97	
						67.95	74.10	76.24	70.56	31,306	67,978	99,284	0.32	50	0.84	62.3	41.4	121,000	121,000	1.00	157,126	152,501	0.97	
		40	63.5		59.6	67.85	74.02	76.25	60.71	31,403	36,578	67,981	0.46	40	2.15	56.7	52.4	188,200	169,700	0.90	256,181	201,103	0.79	
						67.85	74.02	76.25	60.71	31,403	36,578	67,981	0.46	45	1.29	59.2	54.3	147,500	147,500	1.00	215,481	178,903	0.83	
						67.85	74.02	76.25	60.71	31,403	36,578	67,981	0.46	50	0.84	62.3	55.5	120,900	120,900	1.00	188,881	152,303	0.81	
	95	5	57.7	75.0	47.8	68.06	74.22	79.95	50.50	125,554	21,475	147,029	0.85	40	2.25	57.6	39.5	193,000	193,000	1.00	340,029	318,554	0.94	
						68.19	74.33	79.93	64.48	125,111	181,737	306,848	0.41	45	1.60	60.6	41.1	166,600	166,600	1.00	313,629	292,154	0.93	
						68.31	74.44	79.91	75.35	124,667	347,322	471,989	0.26	50	1.09	63.7	42.6	140,100	140,100	1.00	287,129	265,654	0.93	
		40	75.1		59.6	68.06	74.22	79.95	50.50	125,554	21,475	147,029	0.85	40	3.10	59.2	54.9	232,400	179,100	0.77	539,248	304,211	0.56	
						68.19	74.33	79.93	64.48	125,111	181,737	306,848	0.41	45	1.92	61.3	57.1	185,200	160,800	0.87	492,048	285,911	0.58	
						68.19	74.33	79.93	64.48	125,111	181,737	306,848	0.41	50	1.09	63.6	59.0	140,500	140,500	1.00	447,348	265,611	0.59	
	110	5	64.6	75.0	47.8	68.4	74.5	83.57	52.62	218,944	47,852	266,796	0.82	40	6.88	64.6	63.4	368,600	132,500	0.36	840,589	257,167	0.31	
						68.5	74.7	83.51	69.01	218,032	402,658	620,690	0.35	45	5.07	66.2	65.1	324,600	118,200	0.36	796,589	242,867	0.30	
						68.7	74.8	83.46	81.30	217,108	783,126	1,000,234	0.22	50	3.59	67.9	66.7	278,900	103,900	0.37	750,889	228,567	0.30	
		40	86.8		59.6	68.4	74.5	83.57	52.62	218,944	47,852	266,796	0.82	40	2.64	59.1	40.9	212,000	212,000	1.00	478,796	430,944	0.90	
						68.5	74.7	83.51	69.01	218,032	402,658	620,690	0.35	45	1.94	62.0	42.4	186,200	186,200	1.00	452,996	405,144	0.89	
						68.5	74.7	83.51	69.01	218,032	402,658	620,690	0.35	50	1.36	65.1	43.9	159,700	159,700	1.00	426,496	378,644	0.89	
10000	80	5	50.4	75.0	47.8	62.29	69.67	76.47	48.58	37,081	5,315	42,396	0.87	40	2.46	57.7	39.1	203,200	203,200	1.00	245,596	240,281	0.98	
						62.41	69.76	76.46	60.91	36,977	42,053	79,030	0.47	45	1.70	60.5	40.6	172,500	172,500	1.00	214,896	209,581	0.98	
						62.53	69.85	76.46	70.79	36,873	78,189	115,062	0.32	50	1.11	63.4	42.0	141,600	141,600	1.00	183,996	178,681	0.97	
	40	63.5	59.6		62.29	69.67	76.47	48.58	37,081	5,315	42,396	0.87	40	2.69	58.2	53.4	214,100	197,900	0.92	293,130	234,877	0.80		
					62.41	69.76	76.46	60.91	36,977	42,053	79,030	0.47	45	1.70	60.5	55.0	172,400	172,400	1.00	251,430	209,577	0.83		
					62.41	69.76	76.46	60.91	36,977	42,053	79,030	0.47	50	1.11	63.4	56.1	141,600	141,600	1.00	220,630	178,577	0.81		
95	5	57.7	75.0	47.8	62.27	70.01	80.80	50.96	147,801	24,698	172,499	0.86	40	5.98	62.9	61.2	340,300	146,700	0.43	455,362	183,573	0.40		
					62.83	70.15	80.77	65.29	147,324	209,123	356,447	0.41	45	4.22	64.5	62.8	291,700	130,200	0.45	406,762	167,073	0.41		
					62.99	70.28	80.74	76.35	146,844	399,861	546,705	0.27	50	2.78	66.0	64.3	240,500	113,300	0.47	355,562	150,173	0.42		
	40	75.1		59.6	62.27	70.01	80.80	50.96	147,801	24,698	172,499	0.86	40	2.98	59.8	40.8	227,100	227,100	1.00	399,599	374,901	0.94		
					62.83	70.15	80.77	65.29	147,324	209,123	356,447	0.41	45	2.18	62.4	42.1	199,000	199,000	1.00	371,499	346,801	0.93		
					62.83	70.15	80.77	65.29	147,324	209,123	356,447	0.41	50	1.49	65.2	43.5	168,200	168,200	1.00	340,699	316,001	0.93		
110	5	64.6	75.0	47.8	63.0	70.4	85.03	53.41	257,749	55,079	312,828	0.82	40	3.92	61.5	56.8	266,200	208,400	0.78	622,647	355,724	0.57		
					63.3	70.5	84.96	70.47	256,748	463,731	720,479	0.36	45	2.58	63.1	58.4	219,200	190,800	0.87	575,647	338,124	0.59		
					63.5	70.7	84.90	83.09	255,735	902,414	1,158,149	0.22	50	1.50	65.2	60.1	169,000	169,000	1.00	525,447	316,324	0.60		
	40	86.8		59.6	63.0	70.4	85.03	53.41	257,749	55,079	312,828	0.82	40	8.60	67.1	65.9	421,300	147,500	0.35	968,005	294,344	0.30		
					63.3	70.5	84.96	70.47	256,748	463,731	720,479	0.36	45	6.41	68.6	67.3	372,100	132,300	0.36	918,805	279,144	0.30		
					63.3	70.5	84.96	70.47	256,748	463,731	720,479	0.36	50	4.55	70.0	68.7	320,000	116,900	0.37	866,705	263,744	0.30		
12000	80	5	50.4	75.0	47.8	56.80	65.37	76.68	48.70	41,732	5,815	47,547	0.88	40	3.52	61.8	42.6	250,100	250,100	1.00	562,928	507,849	0.90	
						56.94	65.48	76.68	61.10	41,631	46,044	87,675	0.47	45	2.66	64.3	43.8	223,200	223,200	1.00	536,028	480,949	0.90	
						57.08	65.59	76.67	71.03	41,528	85,660	127,188	0.33	50	1.92	67.0	45.1	194,200	194,200	1.00	507,028	451,949	0.89	
	40	73.8	59.6		56.80	65.37	76.68	48.70	41,732	5,815	47,547	0.88	40	5.80	65.3	60.9	334,400	212,800	0.64	1,054,879	469,548	0.45		
					56.94	65.48	76.68	61.10	41,631	46,044	87,675	0.47	45	4.08	66.9	62.4	285,900	196,000	0.69	1,006,379	452,748	0.45		
					56.94	65.48	76.68	61.10	41,631	46,044	87,675	0.47	50	2.66	68.4	64.0	234,600	179,100	0.76	955,079	435,848	0.46		
95	5	57.7	75.0	47.8	57.27	65.79	81.64	51.41	166,400	27,064	193,464	0.86	40	12.64	72.3	71.8	526,700	137,700	0.26	1,684,849	393,435	0.23		
					57.47	65.95	81.61	66.08	165,926	229,309	395,235	0.42	45	9.78	73.5	73.0	476,800	124,200	0.26	1,634,949	379,935	0.23		
					57.66	66.12	81.58	77.32	165,447	438,751	604,198	0.27	50	7.37	74.7	74.3	423,800	110,400	0.26	1,581,949	366,135	0.23		
	40	86.8		59.6	57.27	65.79	81.64	51.41	166,400	27,064	193,464	0.86	40	2.98	59.2	39.9	227,000	227,000	1.00	274,547	268,732	0.98		
					57.47	65.95	81.61	66.08	165,926	229,309	395,235	0.42	45	2.11	61.6	41.1	195,300	195,300	1.00	242,847	237,032	0.98		
					57.47	65.95	81.61	66.08	165,926	229,309	395,235	0.42	50	1.38	64.3	42.5	160,600	160,600	1.00	208,147	202,332	0.97		
110	5	64.6	75.0	47.8	57.7	66.2	86.48	54.18	290,273	60,434	350,707	0.83	40	3.15	59.5	54.3	234,600	223,100	0.95	322,275	264,731	0.82		
					58.0	66.4	86.40	71.87	289,268	509,225	798,493	0.36	45	2.11	61.6	55.5	195,300	195,300	1.00	282,975	236,931	0.84		
					58.3	66.7	86.32	84.80	288,246	991,736	1,279,982	0.23	50	1.38	64.3	56.6	160,600	160,600	1.00	248,275	202			