



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

DX COIL
TOTAL UNIT COOLING CAPACITY

EVT-074 **EVT-074**

EVT-074 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	
5400	80	5	50.4	75.0	47.8	65.79	72.41	76.31	48.48	20,817	3,031	23,848	0.87	40	2.73	57.2	38.8	111,500	111,500	1.00	135,348	132,317	0.98	
		40	63.5		59.6	65.89	72.49	76.31	60.77	20,755	23,976	44,731	0.46	45	1.89	60.1	40.3	94,690	94,690	1.00	118,538	115,507	0.97	
		75	73.8		69.2	66.00	72.57	76.30	70.62	20,692	44,566	65,258	0.32	50	1.23	63.0	41.8	77,740	77,740	1.00	101,588	98,557	0.97	
	95	5	57.7	75.0	47.8	66.12	72.71	80.19	50.63	82,969	14,078	97,047	0.85	40	3.27	59.0	40.2	123,900	123,900	1.00	220,947	206,869	0.94	
		40	75.1		59.6	66.26	72.82	80.16	64.71	82,685	119,157	201,842	0.41	45	2.36	61.7	41.6	107,700	107,700	1.00	204,747	190,669	0.93	
		75	87.7		69.2	66.40	72.94	80.14	75.64	82,399	227,761	310,160	0.27	50	1.61	64.6	43.0	90,770	90,770	1.00	187,817	173,739	0.93	
	110	5	64.6	75.0	47.8	66.4	73.0	83.98	52.81	144,683	30,199	174,882	0.83	40	4.70	60.6	55.5	152,800	114,200	0.75	354,642	196,885	0.56	
		40	86.8		59.6	66.6	73.2	83.92	69.43	144,091	264,071	408,162	0.35	45	3.03	62.5	57.3	124,500	103,300	0.83	326,342	185,985	0.57	
		75	101.7		69.2	66.8	73.3	83.87	81.82	143,494	513,681	657,175	0.22	50	1.64	64.6	59.4	91,840	91,190	0.99	293,682	173,875	0.59	
	6400	80	5	50.4	75.0	47.8	61.30	68.95	76.49	48.58	23,485	3,351	26,836	0.88	40	10.38	65.5	64.0	242,800	85,940	0.35	552,960	168,339	0.30
			40	63.5		59.6	61.49	69.04	76.48	60.92	23,420	26,518	49,938	0.47	45	7.73	67.0	65.5	214,700	76,940	0.36	524,860	159,339	0.30
			75	73.8		69.2	61.61	69.14	76.48	70.82	23,356	49,311	72,667	0.32	50	5.50	68.6	67.1	184,700	67,670	0.37	494,860	150,069	0.30
95		5	57.7	75.0	47.8	61.76	69.30	80.87	51.00	93,611	15,576	109,187	0.86	40	3.80	60.7	41.8	135,100	135,100	1.00	309,982	279,783	0.90	
		40	75.1		59.6	61.93	69.44	80.85	65.36	93,314	131,899	225,213	0.41	45	2.85	63.3	43.1	120,000	120,000	1.00	294,882	264,683	0.90	
		75	87.7		69.2	62.10	69.58	80.82	76.44	93,015	252,228	345,243	0.27	50	2.01	66.2	44.5	103,100	103,100	1.00	277,982	247,783	0.89	
110		5	64.6	75.0	47.8	62.1	69.7	85.16	53.44	163,254	33,438	196,692	0.83	40	6.78	63.8	59.0	189,100	117,100	0.62	597,262	261,191	0.44	
		40	86.8		59.6	62.4	69.9	85.09	70.60	162,629	292,545	455,174	0.36	45	4.78	65.5	60.7	162,100	107,400	0.66	570,262	251,491	0.44	
		75	101.7		69.2	62.6	70.1	85.03	83.25	161,996	569,353	731,349	0.22	50	3.10	67.2	62.4	132,400	97,180	0.73	540,562	241,271	0.45	
7400		80	5	50.4	75.0	47.8	56.93	65.47	76.66	48.68	25,777	3,595	29,372	0.88	40	14.82	69.9	69.3	300,200	81,690	0.27	957,375	225,184	0.24
			40	63.5		59.6	57.08	65.59	76.65	61.08	25,714	28,461	54,175	0.47	45	11.55	71.3	70.6	272,100	73,700	0.27	929,275	217,194	0.23
			75	73.8		69.2	57.22	65.70	76.65	71.01	25,651	52,948	78,599	0.33	50	8.72	72.7	72.1	241,900	65,390	0.27	899,075	208,884	0.23
	95	5	57.7	75.0	47.8	57.40	65.89	81.56	51.36	102,781	16,729	119,510	0.86	40	3.27	58.6	39.5	123,900	123,900	1.00	150,736	147,385	0.98	
		40	75.1		59.6	57.08	65.59	76.65	61.08	25,714	28,461	54,175	0.47	45	2.29	61.2	40.9	105,800	105,800	1.00	132,636	129,285	0.97	
		75	87.7		69.2	57.22	65.70	76.65	71.01	25,651	52,948	78,599	0.33	50	1.50	63.9	42.3	87,030	87,030	1.00	113,866	110,515	0.97	
	110	5	64.6	75.0	47.8	57.9	66.3	86.34	54.06	179,292	35,952	215,244	0.83	40	3.75	59.3	53.6	134,100	119,100	0.89	184,038	142,520	0.77	
		40	86.8		59.6	57.60	66.06	81.53	66.00	102,486	141,736	244,222	0.42	45	2.28	61.2	55.2	105,800	105,800	1.00	155,738	129,220	0.83	
		75	101.7		69.2	57.79	66.22	81.49	77.23	102,190	271,188	373,378	0.27	50	1.49	63.9	56.3	86,990	86,990	1.00	136,928	110,410	0.81	

NOTES: 1. Entering liquid temperature is constant at 110°F. 2. Coil face area is 14.89 sq. ft. 3. All data based on balanced system (Exhaust cfm = Supply cfm).



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EVT-088

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EVT-088

EVT-088 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	
6400	80	5	50.4	75.0	47.8	65.78	72.40	76.32	48.49	24,668	3,592	28,260	0.87	40	3.59	56.2	38.3	139,000	139,000	1.00	167,260	163,668	0.98	
		40	63.5		59.6	65.88	72.48	76.32	60.78	24,595	28,410	53,005	0.46	45	2.54	59.0	39.8	119,400	119,400	1.00	147,660	144,068	0.98	
		50			62.1	41.3	98,120	98,120	1.00	126,380	122,788	0.97	40	4.12	56.9	52.5	150,700	134,100	0.89	203,705	158,695	0.78		
	95	40	75.1	59.6	66.24	72.82	80.21	64.75	97,985	141,197	239,182	0.41	45	2.55	59.0	54.3	119,800	119,800	1.00	172,805	144,395	0.84		
		50		62.1	55.5	98,120	98,120	1.00	151,205	122,715	0.81	40	1.66	62.1	41.3	98,120	98,120	1.00	126,380	122,788	0.97			
		75	87.7	69.2	66.38	72.93	80.19	75.69	97,647	269,890	367,537	0.27	45	6.57	63.1	61.5	207,000	91,360	0.44	284,329	115,881	0.41		
	110	5	64.6	47.8	66.4	73.0	84.06	52.85	171,456	35,785	207,241	0.83	40	4.40	64.8	63.2	172,300	79,570	0.46	249,629	104,091	0.42		
		40	86.8	59.6	66.6	73.2	84.00	69.50	170,757	312,921	483,678	0.35	40	4.27	58.0	39.8	153,600	153,600	1.00	268,603	251,922	0.94		
		50		62.1	55.5	98,120	98,120	1.00	229,603	212,922	0.93	45	3.15	60.6	41.2	135,300	135,300	1.00	250,303	233,622	0.93			
	7600	80	5	50.4	75.0	47.8	61.28	68.88	76.50	48.59	27,861	3,974	31,835	0.88	40	2.17	63.6	42.7	114,600	114,600	1.00	229,603	212,922	0.93
			40	63.5		59.6	61.41	68.98	76.49	60.94	27,785	31,447	59,232	0.47	40	5.93	59.7	55.3	186,200	141,800	0.76	425,382	239,785	0.56
			50			62.1	55.5	98,120	98,120	1.00	229,603	212,922	0.93	45	3.83	61.6	57.2	151,600	128,500	0.85	390,782	226,485	0.58	
95		40	75.1	59.6	61.85	69.38	80.90	65.41	110,707	156,421	267,128	0.41	40	2.22	63.5	59.1	116,000	115,300	0.99	355,182	213,285	0.60		
		50		62.1	55.5	98,120	98,120	1.00	229,603	212,922	0.93	40	12.64	65.2	64.0	290,900	103,700	0.36	658,437	201,347	0.31			
		75	87.7	69.2	62.02	69.52	80.87	76.50	110,354	299,125	409,479	0.27	45	9.53	66.7	65.5	258,000	93,160	0.36	625,537	190,807	0.31		
110		5	64.6	47.8	62.1	69.6	85.25	53.49	193,684	39,656	233,340	0.83	40	6.83	68.3	67.1	222,600	82,210	0.37	590,137	179,857	0.30		
		40	86.8	59.6	62.3	69.8	85.19	70.69	192,946	346,949	539,895	0.36	40	4.97	59.7	41.4	167,800	167,800	1.00	375,041	339,256	0.90		
		50		62.1	55.5	98,120	98,120	1.00	229,603	212,922	0.93	45	3.75	62.4	42.7	149,700	149,700	1.00	356,941	321,156	0.90			
8800		80	5	50.4	75.0	47.8	56.77	65.34	76.68	48.69	30,592	4,262	34,854	0.88	40	2.72	65.1	44.1	130,600	130,600	1.00	337,841	302,056	0.89
			40	63.5		59.6	56.91	65.46	76.67	61.10	30,518	33,748	64,266	0.47	40	8.47	63.0	58.9	229,400	145,400	0.63	713,078	316,157	0.44
			50			62.1	55.5	98,120	98,120	1.00	229,603	212,922	0.93	45	6.01	64.7	60.5	196,700	133,700	0.68	680,378	304,457	0.45	
	95	40	75.1	59.6	57.05	65.57	76.67	71.02	30,443	62,785	93,228	0.33	40	3.87	66.5	62.4	160,100	121,100	0.76	643,778	291,857	0.45		
		50		62.1	55.5	98,120	98,120	1.00	229,603	212,922	0.93	40	17.92	69.8	69.3	358,800	98,210	0.27	1,137,561	268,260	0.24			
		75	87.7	69.2	57.64	66.10	81.56	77.30	121,290	321,607	442,897	0.27	45	14.13	71.1	70.6	326,100	88,900	0.27	1,104,861	258,950	0.23		
	110	5	64.6	47.8	57.7	66.2	86.45	54.12	212,803	42,636	255,439	0.83	40	10.74	72.6	72.0	290,400	79,120	0.27	1,069,161	249,170	0.23		
		40	86.8	59.6	58.0	66.4	86.37	71.84	212,069	373,278	585,347	0.36	40	4.27	58.0	39.8	153,600	153,600	1.00	268,603	251,922	0.94		
		50		62.1	55.5	98,120	98,120	1.00	229,603	212,922	0.93	45	4.97	59.7	41.4	167,800	167,800	1.00	375,041	339,256	0.90			

NOTES: 1. Entering liquid temperature is constant at 110°F. 2. Coil face area is 15.82 sq. ft. 3. All data based on balanced system (Exhaust cfm = Supply cfm).

ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

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