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EVT-100 **HOT WATER COIL** **EVT-100**
TOTAL UNIT HEATING CAPACITY

EVT-100 TOTAL UNIT HEATING CAPACITY -- HOT WATER COIL																										
WINTER APPLICATION RATINGS - ENTHALPY WHEEL											PERFORMANCE RATINGS - HOT WATER COIL															
AIR VOLUME (cfm)	OA CONDITIONS			RA CONDITIONS		EFFECTIVENESS		AIR-LVG WHL / ENT HWC		HEATING CAP-ENTHALPY WHEEL				FLUID DATA			LEAVING AIR DATA			COOLING CAP-HW COIL			COMBINED HEATING 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)	ENT TEMP (deg F)	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
7600	-10	30	-11.5	72.0	54.0	65.8	72.7	47.67	39.05	485,082	112,747	597,829	0.81	24	2.02	120	1.81	104.1	70.8	50.3	189,017	189,017	1.00	786,846	674,099	0.857
														160	1.52	135.0	83.6	55.6	296,510	296,510	1.00	894,339	781,592	0.874		
														200	1.45	165.6	96.8	60.6	405,081	405,081	1.00	1,002,910	890,163	0.888		
	20	30	14.8	72.0	54.0	65.5	72.3	57.06	44.30	306,046	102,759	408,805	0.75	24	2.02	120	5.64	111.3	72.8	51.1	207,403	207,403	1.00	805,232	692,485	0.860
														160	5.35	146.3	87.0	57.0	324,267	324,267	1.00	922,096	809,349	0.878		
														200	5.11	181.1	101.3	62.2	441,834	441,834	1.00	1,039,663	926,916	0.892		
	50	30	38.4	72.0	54.0	65.1	72.0	65.88	49.74	128,849	60,582	189,431	0.68	24	2.02	120	11.89	114.0	73.7	51.5	214,292	214,292	1.00	812,121	699,374	0.861
														160	11.30	150.5	88.3	57.5	334,495	334,495	1.00	932,324	819,577	0.879		
														200	10.84	187.0	102.9	62.8	455,229	455,229	1.00	1,053,058	940,311	0.893		

NOTES: 1. Return air conditions are constant at 72.0 db and 54.0 wb. 2. Outdoor air relative humidity is constant at 30%. 3. Enthalpy Wheel leaving temperatures do not include the effect of Pre-Heater (optional) for frost control. 4. All data based on balanced system (Exhaust cfm = Supply cfm). 5. Coil face area is 20.17 sq. ft.

