

PERFORMANCE DATA

chilled beams



TAO WATER

COIL ROWS	WATER		TAO - 5 FT										
	FLOW (GPM)	ΔPW (FT WG)	SECONDARY COOLING [BTU/H] AT PRIME AIRFLOWS [CFM]										
			80	90	100	110	120	130	140	150	160	170	180
AIR INLET P [W.G."]			0.25"	0.33"	0.40"	0.48"	0.56"	0.64"	0.75"	0.82"	0.92"	1.00"	1.12"
SUPPLY AIRFLOW			210	247	278	309	339	370	403	432	459	480	518
2	0.5	0.08	1278	1414	1535	1644	1738	1823	1907	1966	2025	2056	2129
	0.75	0.18	1380	1542	1689	1825	1943	2053	2163	2240	2319	2360	2461
	1	0.32	1437	1615	1779	1932	2066	2192	2318	2408	2501	2549	2668
	1.25	0.49	1474	1662	1838	2002	2147	2284	2422	2521	2624	2677	2810
	1.5	0.7	1500	1695	1879	2052	2205	2350	2498	2603	2714	2771	2914
ROOM AIR TEMPERATURE: 75°F, WATER ENTERING TEMPERATURE: 57°F													
			SECONDARY HEATING [BTU/H] AT PRIME AIRFLOWS [CFM]										
2	0.5	0.08	2639	3018	3277	3525	3763	4038	4343	4552	4793	4948	5318
	0.75	0.17	2725	3133	3413	3685	3949	4255	4599	4836	5112	5291	5722
	1	0.3	2769	3193	3486	3771	4048	4372	4737	4991	5286	5479	5945
	1.25	0.47	2796	3230	3531	3824	4110	4445	4824	5087	5396	5597	6086
	1.5	0.66	2815	3255	3561	3860	4152	4495	4883	5154	5472	5679	6184
ROOM AIR TEMPERATURE: 70°F, WATER ENTERING TEMPERATURE: 140°F													

Correction factors for other entering conditions:							
ΔT (°F)		8	13	18	23	28	33
Cooling Factor		0.71	0.82	1.00	1.23	1.51	1.85
ΔT (°F)	60	65	70	75	80	85	90
Heating Factor	0.85	0.93	1.00	1.07	1.14	1.22	1.30

COIL ROWS	WATER		TAO - 6 FT										
	FLOW (GPM)	ΔPW (FT WG)	SECONDARY COOLING [BTU/H] AT PRIME AIRFLOWS [CFM]										
			120	130	140	150	160	170	180	190	200	210	220
AIR INLET P [W.G."]			0.23"	0.33"	0.43"	0.50"	0.61"	0.70"	0.75"	0.88"	0.96"	1.00"	1.12"
SUPPLY AIRFLOW			291	331	369	405	442	477	513	547	579	612	644
2	0.5	0.1	1564	1682	1809	1918	2018	2109	2192	2265	2329	2392	2448
	0.75	0.22	1711	1854	2014	2153	2282	2402	2514	2614	2701	2790	2869
	1	0.39	1794	1954	2133	2292	2440	2580	2711	2828	2933	3039	3134
	1.25	0.6	1848	2019	2212	2383	2545	2699	2844	2974	3091	3210	3317
	1.5	0.85	1885	2064	2268	2449	2621	2785	2940	3080	3206	3335	3452
ROOM AIR TEMPERATURE: 75°F, WATER ENTERING TEMPERATURE: 57°F													
			SECONDARY HEATING [BTU/H] AT PRIME AIRFLOWS [CFM]										
2	0.5	0.1	3503	4050	4513	4903	5311	5619	5947	6224	6455	6678	6891
	0.75	0.21	3653	4257	4775	5219	5689	6048	6435	6766	7045	7316	7578
	1	0.37	3731	4366	4916	5390	5895	6283	6705	7068	7375	7675	7966
	1.25	0.57	3780	4434	5004	5497	6024	6432	6877	7260	7586	7904	8215
	1.5	0.81	3813	4481	5064	5570	6114	6535	6996	7393	7733	8065	8389
ROOM AIR TEMPERATURE: 70°F, WATER ENTERING TEMPERATURE: 140°F													

Correction factors for other entering conditions:							
ΔT (°F)		8	13	18	23	28	33
Cooling Factor		0.71	0.82	1.00	1.23	1.51	1.85
ΔT (°F)	60	65	70	75	80	85	90
Heating Factor	0.85	0.93	1.00	1.07	1.14	1.22	1.30

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TAO (ETHYLENE/GLYCOL)

COIL ROWS	ETHYLENE GLYCOL/ WATER FLOW (GPM)	ΔPW (FT WG)	TAO - 5 FT										
			SECONDARY COOLING [BTU/H] AT PRIME AIRFLOWS [CFM]										
			80	90	100	110	120	130	140	150	160	170	180
AIR INLET P [W.G."]			0.25"	0.33"	0.40"	0.48"	0.56"	0.64"	0.75"	0.82"	0.92"	1.00"	1.12"
SUPPLY AIRFLOW			210	247	278	309	339	370	403	432	459	480	518
2	0.5	0.33	1173	1239	1329	1408	1473	1533	1590	1635	1669	1689	1737
	0.75	0.54	1250	1377	1491	1592	1679	1757	1835	1897	1943	1971	2039
	1	0.76	1319	1462	1592	1709	1810	1904	1996	2070	2126	2160	2242
	1.25	0.99	1365	1520	1662	1791	1903	2007	2111	2195	2258	2297	2391
	1.5	1.23	1398	1563	1741	1852	1973	2086	2198	2290	2359	2401	2505
ROOM AIR TEMPERATURE: 75°F, FLUID ENTERING TEMPERATURE: 57°F, ETHYLENE GLYCOL 35%													
			SECONDARY HEATING [BTU/H] AT PRIME AIRFLOWS [CFM]										
2	0.5	0.1	3273	3714	4010	4291	4559	4863	5197	5423	5681	5845	6233
	0.75	0.23	3391	3870	4195	4507	4805	5148	5527	5786	6083	6275	6729
	1	0.39	3455	3956	4297	4626	4942	5307	5714	5992	6314	6521	7017
	1.25	0.6	3550	4088	4459	4820	5170	5577	6034	6351	6720	6904	7538
	1.5	0.86	3582	4133	4513	4884	5245	5666	6141	6470	6856	7106	7713
ROOM AIR TEMPERATURE: 70°F, FLUID ENTERING TEMPERATURE: 160°F, ETHYLENE GLYCOL 50%													

Correction factors for other entering conditions:							
ΔT (°F)		8	13	18	23	28	33
Cooling Factor		0.64	0.72	1.00	1.28	1.55	1.83
ΔT (°F)		70	75	80	85	90	
Heating Factor		0.77	0.83	0.88	0.94	1.00	

COIL ROWS	ETHYLENE GLYCOL/ WATER FLOW (GPM)	ΔPW (FT WG)	TAO - 6 FT										
			SECONDARY COOLING [BTU/H] AT PRIME AIRFLOWS [CFM]										
			120	130	140	150	160	170	180	190	200	210	220
AIR INLET P [W.G."]			0.23"	0.33"	0.43"	0.50"	0.61"	0.70"	0.75"	0.88"	0.96"	1.00"	1.12"
SUPPLY AIRFLOW			291	331	369	405	442	477	513	547	579	612	644
2	0.5	0.4	1394	1483	1578	1657	1729	1793	1852	1902	1946	1989	2027
	0.75	0.66	1550	1664	1787	1892	1988	2077	2158	2229	2291	2352	2406
	1	0.93	1646	1776	1918	2042	2155	2260	2358	2444	2519	2595	2663
	1.25	1.21	1710	1852	2009	2146	2273	2391	2501	2599	2685	2772	2805
	1.5	1.51	1757	1908	2076	2223	2361	2489	2610	2717	2812	2908	2994
ROOM AIR TEMPERATURE: 75°F, FLUID ENTERING TEMPERATURE: 57°F, ETHYLENE GLYCOL 35%													
			SECONDARY HEATING [BTU/H] AT PRIME AIRFLOWS [CFM]										
2	0.5	0.13	4302	4923	5437	5862	6299	6624	6966	7251	7487	7712	7926
	0.75	0.28	4508	5201	5784	6274	6784	7167	7576	7920	8207	8483	8747
	1	0.48	4621	5355	5979	6507	7060	7479	7928	8309	8628	8936	9232
	1.25	0.74	4787	5594	6291	6889	7525	8013	8541	8993	9376	9748	10110
	1.5	1.05	4843	5673	6393	7015	7678	8189	8745	9222	9628	10023	10403
ROOM AIR TEMPERATURE: 70°F, FLUID ENTERING TEMPERATURE: 160°F, ETHYLENE GLYCOL 50%													

Correction factors for other entering conditions:							
ΔT (°F)		8	13	18	23	28	33
Cooling Factor		0.64	0.72	1.00	1.28	1.55	1.83
ΔT (°F)		70	75	80	85	90	
Heating Factor		0.77	0.83	0.88	0.94	1.00	