

HEATING VENTILATING AIR CONDITIONING GUIDE 1939

TABLE 8. PROPERTIES OF SATURATED STEAM: PRESSURE TABLE^a (Continued)

ABS. PRESS. LB SQ IN. P	TEMP F	SPECIFIC VOLUME		ENTHALPY			ENTROPY			ABS. PRESS. LB SQ IN. P
		Sat. Liquid V_f	Sat. Vapor V_g	Sat. Liquid h_f	Evap. h_{fg}	Sat. Vapor h_g	Sat. Liquid s_f	Evap. s_{fg}	Sat. Vapor s_g	
100	327.81	0.01774	4.432	298.40	888.8	1187.2	0.4740	1.1286	1.6026	100
102	329.25	0.01775	4.350	299.90	887.6	1187.5	0.4759	1.1251	1.6010	102
104	330.66	0.01777	4.271	301.37	886.5	1187.9	0.4778	1.1216	1.5994	104
106	332.05	0.01778	4.194	302.82	885.4	1188.2	0.4796	1.1182	1.5978	106
108	333.42	0.01780	4.120	304.26	884.3	1188.6	0.4814	1.1149	1.5963	108
110	334.77	0.01782	4.049	305.66	883.2	1188.9	0.4832	1.1117	1.5948	110
112	336.11	0.01783	3.981	307.06	882.1	1189.2	0.4849	1.1085	1.5934	112
114	337.42	0.01784	3.914	308.43	881.1	1189.5	0.4866	1.1053	1.5919	114
116	338.72	0.01786	3.850	309.79	880.0	1189.8	0.4883	1.1022	1.5905	116
118	339.99	0.01787	3.788	311.12	879.0	1190.1	0.4900	1.0992	1.5891	118
120	341.25	0.01789	3.728	312.44	877.9	1190.4	0.4916	1.0962	1.5878	120
122	342.50	0.01791	3.670	313.75	876.9	1190.7	0.4932	1.0933	1.5865	122
124	343.72	0.01792	3.614	315.04	875.9	1190.9	0.4948	1.0903	1.5851	124
126	344.94	0.01793	3.560	316.31	874.9	1191.2	0.4964	1.0874	1.5838	126
128	346.13	0.01794	3.507	317.57	873.9	1191.5	0.4980	1.0845	1.5825	128
130	347.32	0.01796	3.455	318.81	872.9	1191.7	0.4995	1.0817	1.5812	130
132	348.48	0.01797	3.405	320.04	872.0	1192.0	0.5010	1.0790	1.5800	132
134	349.64	0.01799	3.357	321.25	871.0	1192.2	0.5025	1.0762	1.5787	134
136	350.78	0.01800	3.310	322.45	870.1	1192.5	0.5040	1.0735	1.5775	136
138	351.91	0.01801	3.264	323.64	869.1	1192.7	0.5054	1.0709	1.5763	138
140	353.02	0.01802	3.220	324.82	868.2	1193.0	0.5069	1.0682	1.5751	140
142	354.12	0.01804	3.177	325.98	867.3	1193.2	0.5083	1.0657	1.5740	142
144	355.21	0.01805	3.134	327.13	866.3	1193.4	0.5097	1.0631	1.5728	144
146	356.29	0.01806	3.094	328.27	865.3	1193.6	0.5111	1.0605	1.5716	146
148	357.36	0.01808	3.054	329.39	864.5	1193.9	0.5124	1.0580	1.5705	148
150	358.42	0.01809	3.015	330.51	863.6	1194.1	0.5138	1.0556	1.5694	150
152	359.48	0.01810	2.977	331.61	862.7	1194.3	0.5151	1.0532	1.5683	152
154	360.49	0.01812	2.940	332.70	861.8	1194.5	0.5165	1.0507	1.5672	154
156	361.52	0.01813	2.904	333.79	860.9	1194.7	0.5178	1.0483	1.5661	156
158	362.52	0.01814	2.869	334.86	860.0	1194.9	0.5191	1.0459	1.5650	158
160	363.53	0.01815	2.834	335.93	859.2	1195.1	0.5204	1.0436	1.5640	160
162	364.53	0.01817	2.801	336.98	858.3	1195.3	0.5216	1.0414	1.5630	162
164	365.51	0.01818	2.768	338.02	857.5	1195.5	0.5229	1.0391	1.5620	164
166	366.48	0.01819	2.736	339.05	856.6	1195.7	0.5241	1.0369	1.5610	166
168	367.45	0.01820	2.705	340.07	855.7	1195.8	0.5254	1.0346	1.5600	168
170	368.41	0.01822	2.675	341.09	854.9	1196.0	0.5266	1.0324	1.5590	170
172	369.35	0.01823	2.645	342.10	854.1	1196.2	0.5278	1.0302	1.5580	172
174	370.29	0.01824	2.616	343.10	853.3	1196.4	0.5290	1.0280	1.5570	174
176	371.22	0.01825	2.587	344.09	852.4	1196.5	0.5302	1.0259	1.5561	176
178	372.14	0.01826	2.559	345.06	851.6	1196.7	0.5313	1.0238	1.5551	178
180	373.06	0.01827	2.532	346.03	850.8	1196.9	0.5325	1.0217	1.5542	180
182	373.96	0.01829	2.505	347.00	850.0	1197.0	0.5336	1.0196	1.5532	182
184	374.86	0.01830	2.479	347.96	849.2	1197.2	0.5348	1.0175	1.5523	184
186	375.75	0.01831	2.454	348.92	848.4	1197.3	0.5359	1.0155	1.5514	186
188	376.64	0.01832	2.429	349.86	847.6	1197.5	0.5370	1.0136	1.5506	188
190	377.51	0.01833	2.404	350.79	846.8	1197.6	0.5381	1.0116	1.5497	190
192	378.38	0.01834	2.380	351.72	846.1	1197.8	0.5392	1.0096	1.5488	192
194	379.24	0.01835	2.356	352.64	845.3	1197.9	0.5403	1.0076	1.5479	194
196	380.10	0.01836	2.333	353.55	844.5	1198.1	0.5414	1.0056	1.5470	196
198	380.95	0.01838	2.310	354.46	843.7	1198.2	0.5425	1.0037	1.5462	198
200	381.79	0.01839	2.288	355.36	843.0	1198.4	0.5435	1.0018	1.5453	200
205	383.86	0.01842	2.234	357.58	841.1	1198.7	0.5461	0.9971	1.5432	205
210	385.90	0.01844	2.183	359.77	839.2	1199.0	0.5487	0.9925	1.5412	210
215	387.89	0.01847	2.134	361.91	837.4	1199.3	0.5512	0.9880	1.5392	215
220	389.86	0.01850	2.087	364.02	835.6	1199.6	0.5537	0.9835	1.5372	220
225	391.79	0.01852	2.042	366.09	833.8	1199.9	0.5561	0.9792	1.5353	225
230	393.68	0.01854	1.999	368.13	832.0	1200.1	0.5585	0.9750	1.5334	230
235	395.54	0.01857	1.957	370.14	830.3	1200.4	0.5608	0.9708	1.5316	235
240	397.37	0.01860	1.915	372.12	828.5	1200.6	0.5631	0.9667	1.5298	240
245	399.18	0.01863	1.880	374.08	826.8	1200.9	0.5653	0.9627	1.5280	245

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CHAPTER 1. AIR, WATER AND STEAM

TABLE 8. PROPERTIES OF SATURATED STEAM: PRESSURE TABLE^a (Concluded)

STEAM - PRESSURE TABLE (Concluded)										
ABS. PRESS. LB SQ IN. P	TEMP F	SPECIFIC VOLUME		ENTHALPY			ENTROPY			ABS. PRESS. LB SQ IN. P
		Sat. Liquid V _f	Sat. Vapor V _g	Sat. Liquid h _f	Evap. h _{fg}	Sat. Vapor h _g	Sat. Liquid s _f	Evap. s _{fg}	Sat. Vapor s _g	
250	400.95	0.01865	1.8438	376.00	825.1	1201.1	0.5675	0.9588	1.5263	250
260	404.42	0.01870	1.7748	379.76	821.8	1201.5	0.5719	0.9510	1.5229	260
270	407.78	0.01875	1.7107	383.42	818.5	1201.9	0.5760	0.9436	1.5196	270
280	411.05	0.01880	1.6511	386.98	815.3	1202.3	0.5801	0.9363	1.5164	280
290	414.23	0.01885	1.5954	390.46	812.1	1202.6	0.5841	0.9292	1.5133	290
300	417.33	0.01890	1.5433	393.84	809.0	1202.8	0.5879	0.9225	1.5104	300
320	423.29	0.01899	1.4485	400.39	803.0	1203.4	0.5952	0.9094	1.5046	320
340	428.97	0.01908	1.3645	406.66	797.1	1203.7	0.6022	0.8970	1.4992	340
360	434.40	0.01917	1.2895	412.67	791.4	1204.1	0.6090	0.8851	1.4941	360
380	439.60	0.01925	1.2222	418.45	785.8	1204.3	0.6153	0.8738	1.4891	380
400	444.59	0.0193	1.1613	424.0	780.5	1204.5	0.6214	0.8630	1.4844	400
420	449.39	0.0194	1.1061	429.4	775.2	1204.6	0.6272	0.8527	1.4799	420
440	454.02	0.0195	1.0506	434.6	770.0	1204.6	0.6329	0.8426	1.4755	440
460	458.50	0.0196	1.0004	439.7	764.9	1204.6	0.6383	0.8330	1.4713	460
480	462.82	0.0197	0.9670	444.6	759.9	1204.5	0.6436	0.8237	1.4673	480
500	467.01	0.0197	0.9278	449.4	755.0	1204.4	0.6487	0.8147	1.4634	500
520	471.07	0.0198	0.8915	454.1	750.1	1204.2	0.6536	0.8060	1.4596	520
540	475.01	0.0199	0.8578	458.6	745.4	1204.0	0.6584	0.7976	1.4560	540
560	478.85	0.0200	0.8265	463.0	740.8	1203.8	0.6631	0.7893	1.4524	560
580	482.58	0.0201	0.7973	467.4	736.1	1203.5	0.6676	0.7813	1.4489	580
600	486.21	0.0201	0.7698	471.6	731.6	1203.2	0.6720	0.7734	1.4454	600
620	489.75	0.0202	0.7440	475.7	727.2	1202.9	0.6763	0.7658	1.4421	620
640	493.21	0.0203	0.7198	479.8	722.7	1202.5	0.6805	0.7584	1.4389	640
660	496.58	0.0204	0.6971	483.8	718.3	1202.1	0.6846	0.7512	1.4358	660
680	499.88	0.0204	0.6757	487.7	714.0	1201.7	0.6886	0.7441	1.4327	680
700	503.10	0.0205	0.6554	491.5	709.7	1201.2	0.6925	0.7371	1.4296	700
720	506.25	0.0206	0.6362	495.3	705.4	1200.7	0.6963	0.7303	1.4266	720
740	509.34	0.0207	0.6180	499.0	701.2	1200.2	0.7001	0.7237	1.4237	740
760	512.36	0.0207	0.6007	502.6	697.1	1199.7	0.7037	0.7172	1.4209	760
780	515.33	0.0208	0.5843	506.2	692.9	1199.1	0.7073	0.7108	1.4181	780
800	518.23	0.0209	0.5687	509.7	688.9	1198.6	0.7108	0.7045	1.4153	800
820	521.08	0.0209	0.5538	513.2	684.8	1198.0	0.7143	0.6983	1.4126	820
840	523.88	0.0210	0.5396	516.6	680.8	1197.4	0.7177	0.6922	1.4099	840
860	526.63	0.0211	0.5260	520.0	676.8	1196.8	0.7210	0.6862	1.4072	860
880	529.33	0.0212	0.5130	523.3	672.8	1196.1	0.7243	0.6803	1.4046	880
900	531.98	0.0212	0.5006	526.6	668.8	1195.4	0.7275	0.6744	1.4020	900
920	534.59	0.0213	0.4886	529.8	664.9	1194.7	0.7307	0.6687	1.3995	920
940	537.16	0.0214	0.4772	533.0	661.0	1194.0	0.7339	0.6631	1.3970	940
960	539.68	0.0214	0.4663	536.2	657.1	1193.3	0.7370	0.6576	1.3945	960
980	542.17	0.0215	0.4557	539.3	653.3	1192.6	0.7400	0.6521	1.3921	980
1000	544.61	0.0216	0.4456	542.4	649.4	1191.8	0.7430	0.6467	1.3897	1000
1050	550.57	0.0218	0.4218	550.0	639.9	1189.9	0.7504	0.6334	1.3838	1050
1100	556.31	0.0220	0.4001	557.4	630.4	1187.8	0.7575	0.6205	1.3780	1100
1150	561.86	0.0221	0.3802	564.6	621.0	1185.6	0.7644	0.6079	1.3723	1150
1200	567.22	0.0223	0.3619	571.7	611.7	1183.4	0.7711	0.5956	1.3667	1200
1250	572.42	0.0225	0.3450	578.6	602.4	1181.0	0.7776	0.5836	1.3612	1250
1300	577.46	0.0227	0.3293	585.4	593.2	1178.5	0.7840	0.5719	1.3559	1300
1350	582.35	0.0229	0.3148	592.1	584.0	1176.1	0.7902	0.5604	1.3506	1350
1400	587.10	0.0231	0.3012	598.7	574.7	1173.4	0.7963	0.5491	1.3454	1400
1450	591.73	0.0233	0.2884	605.2	565.5	1170.7	0.8023	0.5379	1.3402	1450
1500	596.23	0.0235	0.2765	611.6	556.3	1167.9	0.8082	0.5269	1.3351	1500
1600	604.90	0.0239	0.2548	624.1	538.0	1162.1	0.8196	0.5053	1.3249	1600
1700	613.15	0.0243	0.2354	638.3	519.6	1155.9	0.8306	0.4843	1.3149	1700
1800	621.03	0.0247	0.2179	648.3	501.1	1149.4	0.8412	0.4637	1.3049	1800
1900	628.58	0.0252	0.2021	660.1	482.4	1142.4	0.8516	0.4433	1.2949	1900
2000	635.82	0.0257	0.1878	671.7	463.4	1135.1	0.8619	0.4230	1.2849	2000
2200	649.46	0.0268	0.1625	694.8	424.4	1119.2	0.8820	0.3826	1.2646	2200
2400	663.12	0.0280	0.1407	718.4	382.7	1101.1	0.9023	0.3411	1.2434	2400
2600	673.94	0.0295	0.1213	743.0	337.2	1080.2	0.9232	0.2973	1.2205	2600
2800	684.99	0.0315	0.1035	770.1	284.7	1054.8	0.9459	0.2487	1.1946	2800
3000	695.36	0.0346	0.0858	802.5	217.8	1020.3	0.9731	0.1885	1.1615	3000
3200	705.11	0.0444	0.0580	872.4	62.0	934.4	1.0320	0.0532	1.0852	3200
3206.2	705.40	0.0503	0.0503	902.7	0	902.7	1.0580	0	1.0580	3206.2