

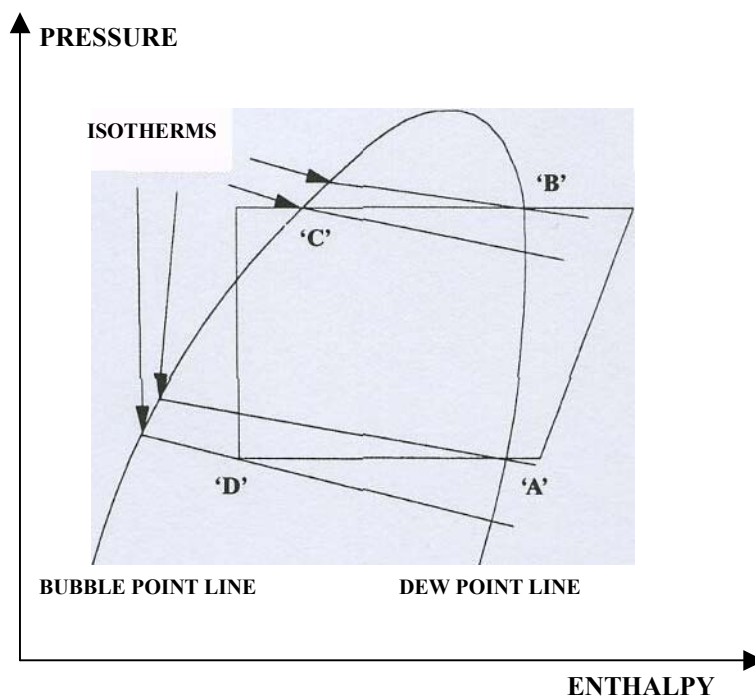
Arcton

408A

THERMODYNAMIC PROPERTY DATA
SI UNITS

SYSTEM PERFORMANCE WITH ZEOTROPIC REFRIGERANT BLENDS

- With a zeotropic refrigerant blend the composition of the vapour changes in the evaporator and the condenser.
- Evaporator inlet and outlet temperatures are different.
- Condenser inlet and outlet temperatures are different.
- At all other points in the system the fluid behaves as normal.
- System design path.
 - Use the saturation properties (table 1) and the superheated vapour properties (table 2) for other properties around the cycle.



Pressure-Enthalpy Diagram for zeotropic Refrigerant Blends

ARCTON 408A

Saturation Properties

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Table 1 Sheet 1

Pressure (bara)	Saturated Temperature		Density		Enthalpy		Entropy	
	Vapour (°C)	Liquid (°C)	Liquid (kg/m ³)	Vapour (kg/m ³)	Liquid (kJ/kg)	Vapour (kJ/kg)	Liquid (kJ/kg.K)	Vapour (kJ/kg.K)
0.7	-51.69	-52.25	1312	3.39	35.54	267.55	0.740	1.789
0.8	-49.03	-49.58	1305	3.84	38.65	269.15	0.754	1.784
0.9	-46.62	-47.16	1298	4.28	41.48	270.59	0.767	1.779
1.0	-44.41	-44.94	1292	4.72	44.08	271.90	0.778	1.775
1.1	-42.37	-42.90	1286	5.16	46.49	273.12	0.789	1.772
1.2	-40.47	-40.99	1281	5.60	48.75	274.25	0.798	1.768
1.3	-38.69	-39.20	1276	6.03	50.87	275.30	0.807	1.766
1.4	-37.01	-37.52	1271	6.46	52.87	276.29	0.816	1.763
1.5	-35.43	-35.93	1266	6.89	54.77	277.22	0.824	1.761
1.6	-33.93	-34.42	1262	7.32	56.58	278.10	0.831	1.758
1.7	-32.50	-32.98	1257	7.75	58.32	278.94	0.839	1.756
1.8	-31.13	-31.61	1253	8.18	59.98	279.74	0.846	1.754
1.9	-29.82	-30.30	1250	8.60	61.57	280.50	0.852	1.753
2.0	-28.56	-29.03	1246	9.03	63.10	281.23	0.858	1.751
2.1	-27.35	-27.82	1242	9.45	64.59	281.93	0.864	1.749
2.2	-26.18	-26.65	1239	9.88	66.02	282.60	0.870	1.748
2.3	-25.06	-25.52	1235	10.30	67.41	283.25	0.876	1.747
2.4	-23.97	-24.42	1232	10.72	68.75	283.87	0.881	1.745
2.5	-22.91	-23.37	1228	11.14	70.06	284.47	0.886	1.744
2.6	-21.89	-22.34	1225	11.56	71.33	285.05	0.891	1.743
2.7	-20.90	-21.34	1222	11.98	72.56	285.62	0.896	1.742
2.8	-19.93	-20.37	1219	12.41	73.77	286.16	0.901	1.741
2.9	-19.00	-19.43	1216	12.83	74.94	286.69	0.906	1.740
3.0	-18.08	-18.51	1213	13.25	76.09	287.20	0.910	1.739
3.2	-16.32	-16.75	1208	14.08	78.31	288.18	0.919	1.737
3.4	-14.64	-15.06	1202	14.92	80.44	289.11	0.927	1.735
3.6	-13.04	-13.45	1197	15.76	82.48	289.99	0.935	1.733
3.8	-11.50	-11.91	1192	16.60	84.45	290.82	0.942	1.732
4.0	-10.02	-10.43	1187	17.44	86.35	291.62	0.950	1.730
4.2	-8.60	-9.00	1182	18.27	88.19	292.38	0.957	1.729
4.4	-7.23	-7.62	1178	19.11	89.97	293.11	0.963	1.728

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

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Table 1

Sheet 2

Pressure (bara)	Saturated Temperature		Density		Enthalpy		Entropy	
	Vapour (°C)	Liquid (°C)	Liquid (kg/m ³)	Vapour (kg/m ³)	Liquid (kJ/kg)	Vapour (kJ/kg)	Liquid (kJ/kg.K)	Vapour (kJ/kg.K)
4.4	-7.23	-7.62	1178	19.11	89.97	293.11	0.963	1.728
4.6	-5.91	-6.30	1173	19.95	91.70	293.81	0.970	1.726
4.8	-4.63	-5.01	1169	20.79	93.38	294.48	0.976	1.725
5.0	-3.38	-3.76	1165	21.63	95.02	295.13	0.982	1.724
5.2	-2.18	-2.55	1160	22.47	96.61	295.75	0.988	1.723
5.4	-1.01	-1.38	1156	23.31	98.16	296.35	0.993	1.722
5.6	0.13	-0.24	1152	24.16	99.68	296.92	0.999	1.721
5.8	1.24	0.87	1148	25.00	101.17	297.48	1.004	1.720
6.0	2.31	1.96	1144	25.85	102.62	298.01	1.009	1.719
6.2	3.37	3.01	1141	26.70	104.04	298.53	1.015	1.718
6.4	4.39	4.04	1137	27.54	105.44	299.03	1.020	1.718
6.6	5.40	5.05	1133	28.39	106.80	299.52	1.024	1.717
6.8	6.38	6.03	1130	29.25	108.15	299.99	1.029	1.716
7.0	7.34	6.99	1126	30.10	109.47	300.45	1.034	1.715
7.2	8.27	7.93	1122	30.96	110.76	300.89	1.038	1.714
7.4	9.19	8.86	1119	31.81	112.03	301.32	1.043	1.714
7.6	10.09	9.76	1116	32.67	113.29	301.73	1.047	1.713
7.8	10.98	10.65	1112	33.54	114.52	302.14	1.052	1.712
8.0	11.84	11.51	1109	34.40	115.74	302.53	1.056	1.712
8.2	12.69	12.37	1106	35.27	116.93	302.91	1.060	1.711
8.4	13.53	13.20	1102	36.13	118.11	303.28	1.064	1.710
8.6	14.35	14.03	1099	37.01	119.28	303.64	1.068	1.710
8.8	15.15	14.83	1096	37.88	120.43	303.99	1.072	1.709
9.0	15.94	15.63	1093	38.75	121.56	304.33	1.076	1.708
9.2	16.72	16.41	1090	39.63	122.68	304.66	1.080	1.708
9.4	17.49	17.18	1087	40.51	123.79	304.98	1.083	1.707
9.6	18.24	17.93	1084	41.39	124.88	305.30	1.087	1.706
9.8	18.99	18.68	1081	42.28	125.96	305.60	1.091	1.706
10.0	19.72	19.41	1078	43.17	127.02	305.90	1.094	1.705
10.5	21.50	21.20	1070	45.40	129.64	306.61	1.103	1.704
11.0	23.22	22.92	1063	47.65	132.19	307.27	1.111	1.702

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

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Table 1

Sheet 3

Pressure (bara)	Saturated Temperature		Density		Enthalpy		Entropy	
	Vapour (°C)	Liquid (°C)	Liquid (kg/m ³)	Vapour (kg/m ³)	Liquid (kJ/kg)	Vapour (kJ/kg)	Liquid (kJ/kg.K)	Vapour (kJ/kg.K)
11.0	23.22	22.92	1063	47.65	132.19	307.27	1.111	1.702
11.5	24.88	24.59	1056	49.92	134.68	307.89	1.120	1.701
12.0	26.49	26.20	1049	52.21	137.11	308.47	1.128	1.700
12.5	28.05	27.77	1042	54.51	139.49	309.02	1.135	1.698
13.0	29.56	29.28	1035	56.84	141.83	309.52	1.143	1.697
13.5	31.03	30.76	1028	59.19	144.11	310.00	1.150	1.696
14.0	32.46	32.19	1022	61.57	146.36	310.44	1.157	1.695
14.5	33.85	33.59	1015	63.96	148.57	310.85	1.165	1.693
15.0	35.21	34.95	1009	66.38	150.75	311.24	1.171	1.692
15.5	36.54	36.28	1002	68.83	152.89	311.59	1.178	1.691
16.0	37.83	37.57	996	71.30	155.00	311.92	1.185	1.690
16.5	39.09	38.84	989	73.80	157.08	312.22	1.191	1.688
17.0	40.33	40.08	983	76.33	159.14	312.50	1.198	1.687
17.5	41.54	41.29	977	78.88	161.17	312.75	1.204	1.686
18.0	42.72	42.47	970	81.47	163.18	312.98	1.210	1.685
18.5	43.88	43.64	964	84.08	165.17	313.19	1.216	1.683
19.0	45.01	44.77	958	86.73	167.14	313.37	1.222	1.682
19.5	46.13	45.89	951	89.41	169.08	313.53	1.228	1.681
20.0	47.22	46.99	945	92.13	171.02	313.67	1.234	1.680
20.5	48.29	48.06	939	94.88	172.94	313.79	1.240	1.678
21.0	49.34	49.12	932	97.66	174.84	313.89	1.246	1.677
21.5	50.38	50.15	926	100.49	176.73	313.97	1.251	1.676
22.0	51.39	51.17	920	103.36	178.61	314.02	1.257	1.674
22.5	52.39	52.17	913	106.26	180.47	314.06	1.262	1.673
23.0	53.38	53.16	907	109.21	182.33	314.08	1.268	1.672
23.5	54.35	54.13	900	112.21	184.18	314.07	1.273	1.670
24.0	55.30	55.09	894	115.25	186.02	314.05	1.279	1.669
24.5	56.24	56.03	887	118.34	187.85	314.00	1.284	1.667
25.0	57.16	56.95	880	121.48	189.68	313.94	1.290	1.666
25.5	58.07	57.86	873	124.67	191.51	313.85	1.295	1.664
26.0	58.97	58.76	866	127.92	193.33	313.74	1.300	1.663

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

ARCTON 408A

Superheated Vapour Properties

ARCTON 408A Superheated Vapour Properties; D = density (kg/m³); H = enthalpy (kJ/Kg); S = entropy (kJ/Kg.K)

Table 2 Sheet 1

Temp (°C)	1 bara			1.5 bara			2 bara			2.5 bara			3 bara			3.5 bara		
	Dewpoint = -44.41°C			Dewpoint = -35.43°C			Dewpoint = -28.56°C			Dewpoint = -22.91°C			Dewpoint = -18.08°C			Dewpoint = -13.83°C		
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S
-44	4.71	272.2	1.776															
-42	4.67	273.6	1.782															
-40	4.62	274.9	1.788															
-38	4.58	276.3	1.794															
-36	4.54	277.7	1.800															
-34	4.50	279.1	1.806	6.85	278.2	1.765												
-32	4.46	280.5	1.812	6.78	279.7	1.771												
-30	4.42	281.9	1.818	6.72	281.1	1.777												
-28	4.38	283.4	1.824	6.66	282.5	1.783	9.00	281.6	1.753									
-26	4.34	284.8	1.829	6.60	284.0	1.788	8.92	283.1	1.759									
-24	4.31	286.2	1.835	6.54	285.4	1.794	8.84	284.5	1.764									
-22	4.27	287.7	1.841	6.48	286.9	1.800	8.76	286.0	1.770	11.09	285.1	1.747						
-20	4.23	289.1	1.847	6.43	288.3	1.806	8.68	287.5	1.776	10.99	286.6	1.753						
-18	4.20	290.6	1.852	6.37	289.8	1.812	8.60	289.0	1.782	10.89	288.1	1.758	13.24	287.3	1.739			
-16	4.16	292.0	1.858	6.32	291.3	1.817	8.52	290.4	1.788	10.79	289.6	1.764	13.11	288.8	1.745			
-14	4.13	293.5	1.864	6.26	292.7	1.823	8.45	291.9	1.794	10.69	291.1	1.770	12.99	290.3	1.751			
-12	4.09	295.0	1.869	6.21	294.2	1.829	8.38	293.4	1.799	10.59	292.6	1.776	12.87	291.8	1.756	15.21	291.0	1.739
-10	4.06	296.5	1.875	6.16	295.7	1.834	8.30	294.9	1.805	10.50	294.1	1.782	12.75	293.3	1.762	15.06	292.5	1.745
-8	4.03	298.0	1.881	6.11	297.2	1.840	8.23	296.4	1.811	10.41	295.7	1.787	12.63	294.9	1.768	14.92	294.0	1.751
-6	4.00	299.5	1.886	6.06	298.7	1.846	8.16	298.0	1.816	10.32	297.2	1.793	12.52	296.4	1.774	14.78	295.6	1.757
-4	3.97	301.0	1.892	6.01	300.2	1.851	8.10	299.5	1.822	10.23	298.7	1.799	12.41	297.9	1.780	14.64	297.1	1.763
-2	3.93	302.5	1.898	5.96	301.8	1.857	8.03	301.0	1.828	10.14	300.3	1.805	12.30	299.5	1.785	14.51	298.7	1.769
0	3.90	304.0	1.903	5.91	303.3	1.863	7.96	302.5	1.833	10.06	301.8	1.810	12.19	301.0	1.791	14.38	300.3	1.774
2	3.87	305.5	1.909	5.87	304.8	1.868	7.90	304.1	1.839	9.97	303.3	1.816	12.09	302.6	1.797	14.25	301.8	1.780
4	3.84	307.0	1.914	5.82	306.3	1.874	7.83	305.6	1.845	9.89	304.9	1.822	11.99	304.2	1.802	14.13	303.4	1.786
6	3.82	308.6	1.920	5.78	307.9	1.879	7.77	307.2	1.850	9.81	306.5	1.827	11.88	305.7	1.808	14.01	305.0	1.791
8	3.79	310.1	1.925	5.73	309.4	1.885	7.71	308.7	1.856	9.73	308.0	1.833	11.79	307.3	1.814	13.89	306.6	1.797
10	3.76	311.7	1.931	5.69	311.0	1.890	7.65	310.3	1.861	9.65	309.6	1.838	11.69	308.9	1.819	13.77	308.2	1.803
12	3.73	313.2	1.936	5.64	312.6	1.896	7.59	311.9	1.867	9.57	311.2	1.844	11.59	310.5	1.825	13.65	309.8	1.808
14	3.70	314.8	1.942	5.60	314.1	1.901	7.53	313.5	1.872	9.50	312.8	1.849	11.50	312.1	1.830	13.54	311.4	1.814
16	3.68	316.4	1.947	5.56	315.7	1.907	7.48	315.0	1.878	9.42	314.4	1.855	11.41	313.7	1.836	13.43	313.0	1.820
18	3.65	317.9	1.953	5.52	317.3	1.912	7.42	316.6	1.883	9.35	316.0	1.861	11.32	315.3	1.842	13.32	314.6	1.825
20	3.62	319.5	1.958	5.48	318.9	1.918	7.36	318.2	1.889	9.28	317.6	1.866	11.23	316.9	1.847	13.21	316.2	1.831
22	3.60	321.1	1.963	5.44	320.5	1.923	7.31	319.8	1.894	9.21	319.2	1.871	11.14	318.5	1.853	13.10	317.9	1.836

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

ARCTON 408A Superheated Vapour Properties; D = density (kg/m³); H = enthalpy (kJ/Kg); S = entropy (kJ/Kg.K)

Table 2 Sheet 1

Temp (°C)	1 bara			1.5 bara			2 bara			2.5 bara			3 bara			3.5 bara		
	Dewpoint = -44.41°C			Dewpoint = -35.43°C			Dewpoint = -28.56°C			Dewpoint = -22.91°C			Dewpoint = -18.08°C			Dewpoint = -13.83°C		
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S
22	3.60	321.1	1.963	5.44	320.5	1.923	7.31	319.8	1.894	9.21	319.2	1.871	11.14	318.5	1.853	13.10	317.9	1.836
24	3.57	322.7	1.969	5.40	322.1	1.929	7.26	321.4	1.900	9.14	320.8	1.877	11.05	320.1	1.858	13.00	319.5	1.842
26	3.55	324.3	1.974	5.36	323.7	1.934	7.20	323.1	1.905	9.07	322.4	1.882	10.97	321.8	1.863	12.90	321.1	1.847
28	3.52	325.9	1.980	5.32	325.3	1.939	7.15	324.7	1.911	9.00	324.1	1.888	10.89	323.4	1.869	12.80	322.8	1.853
30	3.50	327.5	1.985	5.29	326.9	1.945	7.10	326.3	1.916	8.94	325.7	1.893	10.81	325.1	1.874	12.70	324.4	1.858
32	3.48	329.2	1.990	5.25	328.6	1.950	7.05	327.9	1.921	8.87	327.3	1.899	10.72	326.7	1.880	12.60	326.1	1.864
34	3.45	330.8	1.996	5.21	330.2	1.955	7.00	329.6	1.927	8.81	329.0	1.904	10.65	328.4	1.885	12.51	327.7	1.869
36	3.43	332.4	2.001	5.18	331.8	1.961	6.95	331.2	1.932	8.75	330.6	1.909	10.57	330.0	1.891	12.42	329.4	1.874
38	3.41	334.1	2.006	5.14	333.5	1.966	6.90	332.9	1.937	8.68	332.3	1.915	10.49	331.7	1.896	12.32	331.1	1.880
40	3.38	335.7	2.011	5.11	335.1	1.971	6.85	334.5	1.943	8.62	334.0	1.920	10.42	333.4	1.901	12.23	332.8	1.885
42	3.36	337.4	2.017	5.07	336.8	1.977	6.81	336.2	1.948	8.56	335.6	1.925	10.34	335.0	1.907	12.14	334.4	1.891
44	3.34	339.0	2.022	5.04	338.4	1.982	6.76	337.9	1.953	8.50	337.3	1.931	10.27	336.7	1.912	12.06	336.1	1.896
46	3.32	340.7	2.027	5.01	340.1	1.987	6.72	339.6	1.958	8.44	339.0	1.936	10.20	338.4	1.917	11.97	337.8	1.901
48	3.30	342.3	2.032	4.97	341.8	1.992	6.67	341.2	1.964	8.39	340.7	1.941	10.13	340.1	1.923	11.89	339.5	1.907
50	3.28	344.0	2.038	4.94	343.5	1.998	6.63	342.9	1.969	8.33	342.4	1.946	10.06	341.8	1.928	11.80	341.2	1.912
52	3.25	345.7	2.043	4.91	345.2	2.003	6.58	344.6	1.974	8.27	344.1	1.952	9.99	343.5	1.933	11.72	342.9	1.917
54	3.23	347.4	2.048	4.88	346.9	2.008	6.54	346.3	1.979	8.22	345.8	1.957	9.92	345.2	1.938	11.64	344.7	1.922
56	3.21	349.1	2.053	4.85	348.6	2.013	6.50	348.0	1.985	8.17	347.5	1.962	9.85	346.9	1.944	11.56	346.4	1.928
58	3.19	350.8	2.058	4.82	350.3	2.018	6.45	349.7	1.990	8.11	349.2	1.967	9.79	348.7	1.949	11.48	348.1	1.933
60	3.17	352.5	2.063	4.79	352.0	2.024	6.41	351.5	1.995	8.06	350.9	1.973	9.72	350.4	1.954	11.40	349.8	1.938
62	3.15	354.2	2.069	4.76	353.7	2.029	6.37	353.2	2.000	8.01	352.7	1.978	9.66	352.1	1.959	11.33	351.6	1.943
64	3.14	355.9	2.074	4.73	355.4	2.034	6.33	354.9	2.005	7.95	354.4	1.983	9.59	353.9	1.964	11.25	353.3	1.949
66	3.12	357.7	2.079	4.70	357.2	2.039	6.29	356.6	2.010	7.90	356.1	1.988	9.53	355.6	1.970	11.18	355.1	1.954
68										7.85	357.9	1.993	9.47	357.4	1.975	11.10	356.8	1.959
70										7.80	359.6	1.998	9.41	359.1	1.980	11.03	358.6	1.964
72										7.76	361.4	2.003	9.35	360.9	1.985	10.96	360.4	1.969
74										7.71	363.2	2.009	9.29	362.7	1.990	10.89	362.2	1.974
76										7.66	364.9	2.014	9.23	364.4	1.995	10.82	363.9	1.979
78										7.61	366.7	2.019	9.18	366.2	2.000	10.75	365.7	1.985
80										7.57	368.5	2.024	9.12	368.0	2.005	10.69	367.5	1.990
82										7.52	370.3	2.029	9.06	369.8	2.010	10.62	369.3	1.995
84										7.48	372.1	2.034	9.01	371.6	2.015	10.55	371.1	2.000
86										7.43	373.9	2.039	8.95	373.4	2.021	10.49	372.9	2.005
88										7.39	375.7	2.044	8.90	375.2	2.026	10.43	374.7	2.010

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

ARCTON 408A Superheated Vapour Properties; D = density (kg/m³); H = enthalpy (kJ/Kg); S = entropy (kJ/Kg.K)

Table 2 Sheet 2

Temp (°C)	4 bara			4.5 bara			5 bara			5.5 bara			6 bara			7 bara		
	Dewpoint = -10.02°C			Dewpoint = -6.56°C			Dewpoint = -3.38°C			Dewpoint = -0.44°C			Dewpoint = 2.31°C			Dewpoint = 7.34°C		
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S
-10	17.43	291.6	1.730															
-8	17.26	293.2	1.736															
-6	17.10	294.8	1.742	19.48	293.9	1.729												
-4	16.93	296.3	1.748	19.28	295.5	1.735												
-2	16.77	297.9	1.754	19.10	297.1	1.740	21.48	296.2	1.728									
0	16.62	299.5	1.760	18.91	298.7	1.746	21.27	297.8	1.734	23.68	297.0	1.723						
2	16.47	301.1	1.765	18.73	300.3	1.752	21.06	299.4	1.740	23.44	298.6	1.729						
4	16.32	302.6	1.771	18.56	301.9	1.758	20.85	301.1	1.746	23.21	300.2	1.735	25.62	299.4	1.724			
6	16.17	304.2	1.777	18.39	303.5	1.764	20.65	302.7	1.752	22.98	301.9	1.741	25.36	301.0	1.730			
8	16.03	305.8	1.783	18.22	305.1	1.769	20.46	304.3	1.757	22.75	303.5	1.746	25.10	302.7	1.736	29.99	301.0	1.717
10	15.89	307.4	1.788	18.06	306.7	1.775	20.27	305.9	1.763	22.54	305.1	1.752	24.86	304.3	1.742	29.67	302.7	1.723
12	15.75	309.0	1.794	17.89	308.3	1.781	20.08	307.5	1.769	22.32	306.8	1.758	24.61	306.0	1.748	29.36	304.4	1.729
14	15.62	310.7	1.800	17.74	309.9	1.787	19.90	309.2	1.775	22.11	308.4	1.764	24.38	307.7	1.754	29.06	306.1	1.735
16	15.48	312.3	1.805	17.58	311.6	1.792	19.72	310.8	1.780	21.91	310.1	1.769	24.14	309.3	1.759	28.77	307.7	1.741
18	15.36	313.9	1.811	17.43	313.2	1.798	19.55	312.5	1.786	21.71	311.7	1.775	23.92	311.0	1.765	28.48	309.4	1.747
20	15.23	315.5	1.816	17.28	314.8	1.803	19.38	314.1	1.792	21.52	313.4	1.781	23.70	312.7	1.771	28.20	311.1	1.752
22	15.10	317.2	1.822	17.14	316.5	1.809	19.21	315.8	1.797	21.33	315.1	1.787	23.48	314.3	1.776	27.93	312.8	1.758
24	14.98	318.8	1.827	17.00	318.1	1.815	19.05	317.4	1.803	21.14	316.7	1.792	23.27	316.0	1.782	27.66	314.5	1.764
26	14.86	320.5	1.833	16.86	319.8	1.820	18.89	319.1	1.809	20.96	318.4	1.798	23.06	317.7	1.788	27.40	316.2	1.770
28	14.74	322.1	1.838	16.72	321.4	1.826	18.73	320.8	1.814	20.78	320.1	1.803	22.86	319.4	1.793	27.15	318.0	1.775
30	14.63	323.8	1.844	16.58	323.1	1.831	18.58	322.4	1.820	20.60	321.8	1.809	22.66	321.1	1.799	26.90	319.7	1.781
32	14.51	325.4	1.849	16.45	324.8	1.837	18.42	324.1	1.825	20.43	323.5	1.815	22.47	322.8	1.805	26.66	321.4	1.787
34	14.40	327.1	1.855	16.32	326.5	1.842	18.27	325.8	1.831	20.26	325.2	1.820	22.28	324.5	1.810	26.42	323.1	1.792
36	14.29	328.8	1.860	16.20	328.1	1.848	18.13	327.5	1.836	20.09	326.9	1.826	22.09	326.2	1.816	26.19	324.8	1.798
38	14.18	330.5	1.866	16.07	329.8	1.853	17.99	329.2	1.842	19.93	328.6	1.831	21.91	327.9	1.821	25.96	326.6	1.804
40	14.08	332.1	1.871	15.95	331.5	1.859	17.84	330.9	1.847	19.77	330.3	1.837	21.73	329.6	1.827	25.74	328.3	1.809
42	13.97	333.8	1.877	15.83	333.2	1.864	17.71	332.6	1.852	19.61	332.0	1.842	21.55	331.3	1.832	25.52	330.0	1.815
44	13.87	335.5	1.882	15.71	334.9	1.869	17.57	334.3	1.858	19.46	333.7	1.847	21.38	333.1	1.838	25.30	331.8	1.820
46	13.77	337.2	1.887	15.59	336.6	1.875	17.44	336.0	1.863	19.31	335.4	1.853	21.21	334.8	1.843	25.09	333.5	1.826
48	13.67	338.9	1.893	15.48	338.4	1.880	17.31	337.8	1.869	19.16	337.2	1.858	21.04	336.5	1.849	24.89	335.3	1.831
50	13.57	340.7	1.898	15.36	340.1	1.885	17.18	339.5	1.874	19.02	338.9	1.864	20.88	338.3	1.854	24.69	337.1	1.837
52	13.47	342.4	1.903	15.25	341.8	1.891	17.05	341.2	1.879	18.87	340.6	1.869	20.72	340.0	1.859	24.49	338.8	1.842
54	13.38	344.1	1.908	15.14	343.5	1.896	16.93	343.0	1.885	18.73	342.4	1.874	20.56	341.8	1.865	24.30	340.6	1.847
56	13.29	345.8	1.914	15.03	345.3	1.901	16.80	344.7	1.890	18.59	344.1	1.880	20.41	343.5	1.870	24.11	342.4	1.853

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

ARCTON 408A Superheated Vapour Properties; D = density (kg/m³); H = enthalpy (kJ/Kg); S = entropy (kJ/Kg.K)

Table 2 Sheet 2

Temp (°C)	4 bara			4.5 bara			5 bara			5.5 bara			6 bara			7 bara		
	Dewpoint = -10.02°C			Dewpoint = -6.56°C			Dewpoint = -3.38°C			Dewpoint = -0.44°C			Dewpoint = 2.31°C			Dewpoint = 7.34°C		
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S
56	13.29	345.8	1.914	15.03	345.3	1.901	16.80	344.7	1.890	18.59	344.1	1.880	20.41	343.5	1.870	24.11	342.4	1.853
58	13.19	347.6	1.919	14.93	347.0	1.907	16.68	346.4	1.895	18.46	345.9	1.885	20.26	345.3	1.875	23.92	344.1	1.858
60	13.10	349.3	1.924	14.82	348.8	1.912	16.56	348.2	1.901	18.32	347.6	1.890	20.11	347.1	1.881	23.74	345.9	1.864
62	13.01	351.0	1.929	14.72	350.5	1.917	16.45	350.0	1.906	18.19	349.4	1.896	19.96	348.8	1.886	23.56	347.7	1.869
64	12.93	352.8	1.935	14.62	352.3	1.922	16.33	351.7	1.911	18.06	351.2	1.901	19.81	350.6	1.891	23.38	349.5	1.874
66	12.84	354.6	1.940	14.52	354.0	1.928	16.22	353.5	1.916	17.94	352.9	1.906	19.67	352.4	1.897	23.20	351.3	1.880
68	12.75	356.3	1.945	14.42	355.8	1.933	16.11	355.3	1.922	17.81	354.7	1.911	19.53	354.2	1.902	23.03	353.1	1.885
70	12.67	358.1	1.950	14.33	357.6	1.938	16.00	357.0	1.927	17.69	356.5	1.917	19.39	356.0	1.907	22.87	354.9	1.890
72	12.59	359.9	1.955	14.23	359.3	1.943	15.89	358.8	1.932	17.57	358.3	1.922	19.26	357.8	1.912	22.70	356.7	1.895
74	12.51	361.6	1.961	14.14	361.1	1.948	15.78	360.6	1.937	17.45	360.1	1.927	19.13	359.6	1.918	22.54	358.5	1.901
76	12.43	363.4	1.966	14.04	362.9	1.953	15.68	362.4	1.942	17.33	361.9	1.932	18.99	361.4	1.923	22.38	360.3	1.906
78	12.35	365.2	1.971	13.95	364.7	1.959	15.57	364.2	1.947	17.21	363.7	1.937	18.87	363.2	1.928	22.22	362.2	1.911
80	12.27	367.0	1.976	13.86	366.5	1.964	15.47	366.0	1.953	17.10	365.5	1.942	18.74	365.0	1.933	22.07	364.0	1.916
82	12.19	368.8	1.981	13.77	368.3	1.969	15.37	367.9	1.958	16.99	367.4	1.948	18.61	366.9	1.938	21.92	365.8	1.922
84	12.11	370.6	1.986	13.69	370.2	1.974	15.27	369.7	1.963	16.87	369.2	1.953	18.49	368.7	1.943	21.77	367.7	1.927
86	12.04	372.5	1.991	13.60	372.0	1.979	15.18	371.5	1.968	16.77	371.0	1.958	18.37	370.5	1.949	21.62	369.5	1.932
88	11.96	374.3	1.996	13.52	373.8	1.984	15.08	373.3	1.973	16.66	372.9	1.963	18.25	372.4	1.954	21.47	371.4	1.937
90	11.89	376.1	2.001	13.43	375.6	1.989	14.99	375.2	1.978	16.55	374.7	1.968	18.13	374.2	1.959	21.33	373.3	1.942
92	11.82	377.9	2.006	13.35	377.5	1.994	14.89	377.0	1.983	16.45	376.5	1.973	18.01	376.1	1.964	21.19	375.1	1.947
94	11.75	379.8	2.011	13.27	379.3	1.999	14.80	378.9	1.988	16.34	378.4	1.978	17.90	377.9	1.969	21.05	377.0	1.952
96	11.68	381.6	2.016	13.19	381.2	2.004	14.71	380.7	1.993	16.24	380.2	1.983	17.79	379.8	1.974	20.92	378.9	1.957
98	11.61	383.5	2.021	13.11	383.0	2.009	14.62	382.6	1.998	16.14	382.1	1.988	17.68	381.7	1.979	20.78	380.7	1.963
100	11.54	385.3	2.026	13.03	384.9	2.014	14.53	384.4	2.003	16.04	384.0	1.993	17.57	383.5	1.984	20.65	382.6	1.968
102										15.94	385.8	1.998	17.46	385.4	1.989	20.52	384.5	1.973
104										15.85	387.7	2.003	17.35	387.3	1.994	20.39	386.4	1.978
106										15.75	389.6	2.008	17.25	389.2	1.999	20.26	388.3	1.983
108										15.66	391.5	2.013	17.14	391.1	2.004	20.14	390.2	1.988
110										15.57	393.4	2.018	17.04	393.0	2.009	20.01	392.1	1.993

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

ARCTON 408A Superheated Vapour Properties; D = density (kg/m³); H = enthalpy (kJ/Kg); S = entropy (kJ/Kg.K)

Table 2 Sheet 3

Temp (°C)	8 bara			10 bara			12 bara			14 bara			16 bara			18 bara		
	Dewpoint = 11.84°C			Dewpoint = 19.72°C			Dewpoint = 26.49°C			Dewpoint = 32.46°C			Dewpoint = 37.83°C			Dewpoint = 42.72°C		
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S
12	34.37	302.7	1.712															
14	33.99	304.4	1.718															
16	33.62	306.1	1.724															
18	33.26	307.8	1.730															
20	32.91	309.5	1.736	43.09	306.2	1.706												
22	32.58	311.3	1.742	42.58	307.9	1.712												
24	32.24	313.0	1.748	42.09	309.7	1.718												
26	31.92	314.7	1.753	41.61	311.5	1.724												
28	31.61	316.5	1.759	41.15	313.3	1.730	51.70	309.9	1.704									
30	31.30	318.2	1.765	40.70	315.1	1.736	51.05	311.8	1.711									
32	31.01	320.0	1.771	40.26	316.9	1.742	50.42	313.6	1.717									
34	30.71	321.7	1.776	39.83	318.7	1.748	49.81	315.5	1.723	60.90	311.9	1.700						
36	30.43	323.4	1.782	39.42	320.5	1.754	49.23	317.4	1.729	60.08	313.9	1.706						
38	30.15	325.2	1.788	39.02	322.3	1.760	48.66	319.2	1.735	59.28	315.8	1.712	71.21	312.1	1.690			
40	29.88	327.0	1.793	38.63	324.1	1.765	48.11	321.1	1.741	58.52	317.8	1.718	70.13	314.1	1.697			
42	29.61	328.7	1.799	38.25	325.9	1.771	47.58	322.9	1.747	57.78	319.7	1.725	69.10	316.2	1.703			
44	29.35	330.5	1.804	37.88	327.7	1.777	47.06	324.8	1.753	57.07	321.7	1.731	68.12	318.2	1.710	80.59	314.4	1.689
46	29.10	332.2	1.810	37.52	329.5	1.783	46.56	326.7	1.759	56.39	323.6	1.737	67.19	320.2	1.716	79.29	316.5	1.696
48	28.85	334.0	1.816	37.16	331.4	1.788	46.08	328.5	1.764	55.72	325.5	1.743	66.29	322.2	1.722	78.05	318.6	1.702
50	28.61	335.8	1.821	36.82	333.2	1.794	45.60	330.4	1.770	55.09	327.4	1.749	65.43	324.2	1.728	76.87	320.7	1.709
52	28.37	337.6	1.827	36.48	335.0	1.800	45.15	332.3	1.776	54.47	329.4	1.755	64.60	326.2	1.735	75.75	322.8	1.715
54	28.13	339.4	1.832	36.15	336.8	1.805	44.70	334.1	1.782	53.87	331.3	1.761	63.80	328.2	1.741	74.68	324.9	1.722
56	27.90	341.1	1.837	35.83	338.6	1.811	44.26	336.0	1.787	53.29	333.2	1.766	63.03	330.2	1.747	73.66	327.0	1.728
58	27.68	342.9	1.843	35.52	340.5	1.816	43.84	337.9	1.793	52.72	335.1	1.772	62.29	332.2	1.753	72.68	329.0	1.734
60	27.46	344.7	1.848	35.21	342.3	1.822	43.42	339.7	1.799	52.18	337.0	1.778	61.57	334.2	1.759	71.74	331.1	1.740
62	27.24	346.5	1.854	34.91	344.1	1.827	43.02	341.6	1.804	51.64	339.0	1.784	60.87	336.1	1.765	70.84	333.1	1.747
64	27.03	348.3	1.859	34.62	346.0	1.833	42.63	343.5	1.810	51.13	340.9	1.789	60.20	338.1	1.771	69.96	335.2	1.753
66	26.82	350.2	1.864	34.33	347.8	1.838	42.24	345.4	1.815	50.62	342.8	1.795	59.55	340.1	1.776	69.13	337.2	1.759
68	26.62	352.0	1.870	34.05	349.7	1.844	41.87	347.3	1.821	50.13	344.7	1.801	58.92	342.1	1.782	68.32	339.3	1.765
70	26.42	353.8	1.875	33.77	351.5	1.849	41.50	349.1	1.826	49.66	346.7	1.806	58.31	344.0	1.788	67.53	341.3	1.771
72	26.22	355.6	1.880	33.50	353.4	1.854	41.14	351.0	1.832	49.19	348.6	1.812	57.71	346.0	1.794	66.78	343.3	1.777
74	26.02	357.4	1.886	33.23	355.2	1.860	40.79	352.9	1.837	48.74	350.5	1.818	57.13	348.0	1.799	66.04	345.4	1.782
76	25.83	359.3	1.891	32.97	357.1	1.865	40.45	354.8	1.843	48.29	352.5	1.823	56.57	350.0	1.805	65.34	347.4	1.788
78	25.65	361.1	1.896	32.72	359.0	1.870	40.11	356.7	1.848	47.86	354.4	1.829	56.02	352.0	1.811	64.65	349.4	1.794

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

ARCTON 408A Superheated Vapour Properties; D = density (kg/m³); H = enthalpy (kJ/Kg); S = entropy (kJ/Kg.K)

Table 2 Sheet 3

Temp (°C)	8 bara			10 bara			12 bara			14 bara			16 bara			18 bara		
	Dewpoint = 11.84°C			Dewpoint = 19.72°C			Dewpoint = 26.49°C			Dewpoint = 32.46°C			Dewpoint = 37.83°C			Dewpoint = 42.72°C		
	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S	D	H	S
78	25.65	361.1	1.896	32.72	359.0	1.870	40.11	356.7	1.848	47.86	354.4	1.829	56.02	352.0	1.811	64.65	349.4	1.794
80	25.46	363.0	1.901	32.47	360.8	1.876	39.78	358.6	1.854	47.44	356.3	1.834	55.49	354.0	1.816	63.98	351.5	1.800
82	25.28	364.8	1.907	32.22	362.7	1.881	39.46	360.6	1.859	47.03	358.3	1.840	54.97	356.0	1.822	63.33	353.5	1.806
84	25.10	366.7	1.912	31.98	364.6	1.886	39.14	362.5	1.865	46.63	360.2	1.845	54.46	357.9	1.828	62.70	355.5	1.811
86	24.93	368.5	1.917	31.74	366.5	1.892	38.83	364.4	1.870	46.23	362.2	1.851	53.97	359.9	1.833	62.09	357.6	1.817
88	24.76	370.4	1.922	31.51	368.4	1.897	38.53	366.3	1.875	45.85	364.2	1.856	53.49	361.9	1.839	61.50	359.6	1.823
90	24.59	372.3	1.927	31.28	370.3	1.902	38.23	368.2	1.881	45.47	366.1	1.862	53.02	363.9	1.844	60.92	361.6	1.828
92	24.42	374.2	1.933	31.06	372.2	1.907	37.94	370.2	1.886	45.10	368.1	1.867	52.56	365.9	1.850	60.35	363.7	1.834
94	24.26	376.0	1.938	30.84	374.1	1.913	37.66	372.1	1.891	44.74	370.0	1.872	52.11	367.9	1.855	59.80	365.7	1.839
96	24.10	377.9	1.943	30.62	376.0	1.918	37.38	374.0	1.896	44.39	372.0	1.878	51.67	369.9	1.861	59.27	367.7	1.845
98	23.94	379.8	1.948	30.41	377.9	1.923	37.10	376.0	1.902	44.04	374.0	1.883	51.25	371.9	1.866	58.74	369.8	1.850
100	23.78	381.7	1.953	30.20	379.8	1.928	36.83	377.9	1.907	43.70	375.9	1.888	50.83	373.9	1.871	58.23	371.8	1.856
102	23.63	383.6	1.958	29.99	381.7	1.933	36.56	379.8	1.912	43.37	377.9	1.893	50.42	375.9	1.877	57.73	373.8	1.861
104	23.47	385.5	1.963	29.79	383.7	1.938	36.30	381.8	1.917	43.04	379.9	1.899	50.01	377.9	1.882	57.25	375.8	1.867
106	23.32	387.4	1.968	29.59	385.6	1.943	36.05	383.7	1.922	42.72	381.8	1.904	49.62	379.9	1.887	56.77	377.9	1.872
108	23.18	389.3	1.973	29.39	387.5	1.948	35.80	385.7	1.927	42.41	383.8	1.909	49.24	381.9	1.893	56.30	379.9	1.877
110	23.03	391.2	1.978	29.20	389.5	1.954	35.55	387.6	1.933	42.10	385.8	1.914	48.86	383.9	1.898	55.85	382.0	1.883
112	22.89	393.1	1.983	29.01	391.4	1.959	35.30	389.6	1.938	41.79	387.8	1.919	48.49	385.9	1.903	55.40	384.0	1.888
114	22.75	395.1	1.988	28.82	393.3	1.964	35.06	391.6	1.943	41.50	389.8	1.925	48.12	387.9	1.908	54.96	386.0	1.893
116	22.61	397.0	1.993	28.63	395.3	1.969	34.83	393.5	1.948	41.20	391.8	1.930	47.77	389.9	1.913	54.54	388.1	1.899
118	22.47	398.9	1.998	28.45	397.2	1.974	34.60	395.5	1.953	40.92	393.8	1.935	47.42	392.0	1.919	54.12	390.1	1.904
120	22.34	400.9	2.003	28.27	399.2	1.979	34.37	397.5	1.958	40.63	395.8	1.940	47.08	394.0	1.924	53.71	392.2	1.909
122										40.36	397.8	1.945	46.74	396.0	1.929	53.30	394.2	1.914
124										40.08	399.8	1.950	46.41	398.0	1.934	52.91	396.3	1.919
126										39.81	401.8	1.955	46.08	400.1	1.939	52.52	398.3	1.925
128										39.55	403.8	1.960	45.76	402.1	1.944	52.14	400.4	1.930
130										39.29	405.8	1.965	45.45	404.1	1.949	51.77	402.4	1.935
132										39.04	407.8	1.970	45.14	406.2	1.954	51.40	404.5	1.940
134										38.78	409.8	1.975	44.84	408.2	1.959	51.04	406.6	1.945
136										38.54	411.9	1.980	44.54	410.3	1.964	50.69	408.6	1.950
138										38.29	413.9	1.985	44.25	412.3	1.969	50.34	410.7	1.955
140										38.05	415.9	1.990	43.96	414.4	1.974	50.00	412.8	1.960
142										37.82	418.0	1.995	43.67	416.4	1.979	49.66	414.8	1.965

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

ARCTON 408A Superheated Vapour Properties; D = density (kg/m³); H = enthalpy (kJ/Kg); S = entropy (kJ/Kg.K)

Table 2 Sheet 4

Temp (°C)	20 bara			22 bara			24 bara			26 bara		
	Dewpoint =47.22°C			Dewpoint = 51.30°C			Dewpoint = 55.3°C			Dewpoint = 58.97°C		
	D	H	S	D	H	S	D	H	S	D	H	S
48	91.45	314.6	1.682									
50	89.81	316.8	1.689									
52	88.27	319.0	1.696	102.70	314.8	1.677						
54	86.81	321.3	1.703	100.66	317.1	1.684						
56	85.44	323.4	1.710	98.75	319.5	1.691	114.31	315.0	1.672			
58	84.13	325.6	1.716	96.97	321.8	1.698	111.77	317.5	1.679			
60	82.89	327.8	1.723	95.30	324.1	1.705	109.45	320.0	1.687	126.19	315.2	1.667
62	81.70	329.9	1.729	93.72	326.4	1.712	107.30	322.4	1.694	123.09	317.9	1.675
64	80.57	332.0	1.735	92.23	328.6	1.718	105.29	324.8	1.701	120.29	320.5	1.683
66	79.49	334.1	1.742	90.82	330.8	1.725	103.41	327.2	1.708	117.71	323.1	1.691
68	78.45	336.3	1.748	89.48	333.0	1.731	101.65	329.5	1.715	115.34	325.6	1.698
70	77.45	338.4	1.754	88.20	335.2	1.738	99.99	331.8	1.722	113.14	328.1	1.705
72	76.49	340.5	1.760	86.97	337.4	1.744	98.42	334.1	1.728	111.08	330.5	1.712
74	75.56	342.6	1.766	85.80	339.6	1.750	96.93	336.4	1.735	109.15	332.9	1.719
76	74.67	344.7	1.772	84.68	341.8	1.757	95.51	338.7	1.741	107.34	335.3	1.726
78	73.81	346.8	1.778	83.61	343.9	1.763	94.16	340.9	1.748	105.62	337.7	1.733
80	72.98	348.8	1.784	82.57	346.1	1.769	92.87	343.2	1.754	104.00	340.0	1.740
82	72.18	350.9	1.790	81.58	348.2	1.775	91.63	345.4	1.761	102.46	342.3	1.746
84	71.40	353.0	1.796	80.62	350.4	1.781	90.45	347.6	1.767	100.99	344.6	1.753
86	70.65	355.1	1.802	79.69	352.5	1.787	89.31	349.8	1.773	99.59	346.9	1.759
88	69.92	357.2	1.808	78.80	354.7	1.793	88.22	352.0	1.779	98.25	349.2	1.765
90	69.21	359.3	1.813	77.94	356.8	1.799	87.17	354.2	1.785	96.97	351.5	1.772
92	68.52	361.3	1.819	77.10	358.9	1.805	86.15	356.4	1.791	95.74	353.7	1.778
94	67.85	363.4	1.825	76.29	361.0	1.811	85.17	358.6	1.797	94.56	356.0	1.784
96	67.20	365.5	1.830	75.50	363.2	1.816	84.23	360.7	1.803	93.43	358.2	1.790
98	66.56	367.5	1.836	74.74	365.3	1.822	83.31	362.9	1.809	92.33	360.4	1.796
100	65.95	369.6	1.841	74.00	367.4	1.828	82.43	365.0	1.815	91.28	362.6	1.802
102	65.35	371.7	1.847	73.28	369.5	1.833	81.57	367.2	1.820	90.26	364.8	1.808
104	64.76	373.8	1.852	72.58	371.6	1.839	80.74	369.4	1.826	89.27	367.0	1.814
106	64.19	375.8	1.858	71.90	373.7	1.845	79.93	371.5	1.832	88.32	369.2	1.820
108	63.63	377.9	1.863	71.24	375.8	1.850	79.15	373.6	1.837	87.39	371.4	1.825
110	63.08	380.0	1.869	70.59	377.9	1.856	78.38	375.8	1.843	86.50	373.6	1.831
112	62.55	382.0	1.874	69.96	380.0	1.861	77.64	377.9	1.849	85.63	375.8	1.837
114	62.03	384.1	1.880	69.34	382.1	1.867	76.92	380.1	1.854	84.78	378.0	1.842

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

ARCTON 408A Superheated Vapour Properties; D = density (kg/m³); H = enthalpy (kJ/Kg); S = entropy (kJ/Kg.K)

Table 2 Sheet 4

Temp (°C)	20 bara			22 bara			24 bara			26 bara		
	Dewpoint = 47.22°C			Dewpoint = 51.30°C			Dewpoint = 55.3°C			Dewpoint = 58.97°C		
	D	H	S	D	H	S	D	H	S	D	H	S
116	61.52	386.2	1.885	68.74	384.2	1.872	76.22	382.2	1.860	83.96	380.1	1.848
118	61.03	388.2	1.890	68.16	386.3	1.877	75.53	384.3	1.865	83.16	382.3	1.854
120	60.54	390.3	1.895	67.59	388.4	1.883	74.86	386.5	1.871	82.39	384.5	1.859
122	60.06	392.4	1.901	67.03	390.5	1.888	74.21	388.6	1.876	81.63	386.7	1.865
124	59.60	394.5	1.906	66.48	392.6	1.893	73.58	390.7	1.881	80.90	388.8	1.870
126	59.14	396.5	1.911	65.95	394.7	1.899	72.96	392.9	1.887	80.18	391.0	1.875
128	58.69	398.6	1.916	65.42	396.8	1.904	72.35	395.0	1.892	79.48	393.2	1.881
130	58.25	400.7	1.922	64.91	398.9	1.909	71.76	397.2	1.897	78.80	395.3	1.886
132	57.82	402.8	1.927	64.41	401.1	1.914	71.18	399.3	1.903	78.13	397.5	1.892
134	57.40	404.9	1.932	63.92	403.2	1.920	70.61	401.4	1.908	77.48	399.7	1.897
136	56.98	407.0	1.937	63.44	405.3	1.925	70.05	403.6	1.913	76.85	401.8	1.902
138	56.58	409.1	1.942	62.97	407.4	1.930	69.51	405.7	1.918	76.22	404.0	1.908
140	56.18	411.2	1.947	62.50	409.5	1.935	68.98	407.8	1.924	75.62	406.1	1.913
142	55.79	413.2	1.952	62.05	411.6	1.940	68.46	410.0	1.929	75.02	408.3	1.918
144	55.40	415.3	1.957	61.60	413.7	1.945	67.95	412.1	1.934	74.44	410.5	1.923
146	55.02	417.4	1.962	61.17	415.9	1.950	67.45	414.3	1.939	73.87	412.6	1.928
148	54.65	419.5	1.967	60.74	418.0	1.955	66.96	416.4	1.944	73.31	414.8	1.934
150	54.29	421.7	1.972	60.32	420.1	1.960	66.47	418.6	1.949	72.76	417.0	1.939
152	53.93	423.8	1.977	59.90	422.2	1.965	66.00	420.7	1.954	72.23	419.1	1.944
154	53.57	425.9	1.982	59.50	424.4	1.970	65.54	422.9	1.959	71.70	421.3	1.949
156	53.23	428.0	1.987	59.10	426.5	1.975	65.08	425.0	1.964	71.19	423.5	1.954
158										70.68	425.7	1.959
160										70.18	427.8	1.964
162										69.70	430.0	1.969
164										69.22	432.2	1.974
166										68.75	434.4	1.979
168										68.29	436.6	1.984

Standard state: At 0°C, liquid enthalpy = 100 kJ/Kg

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