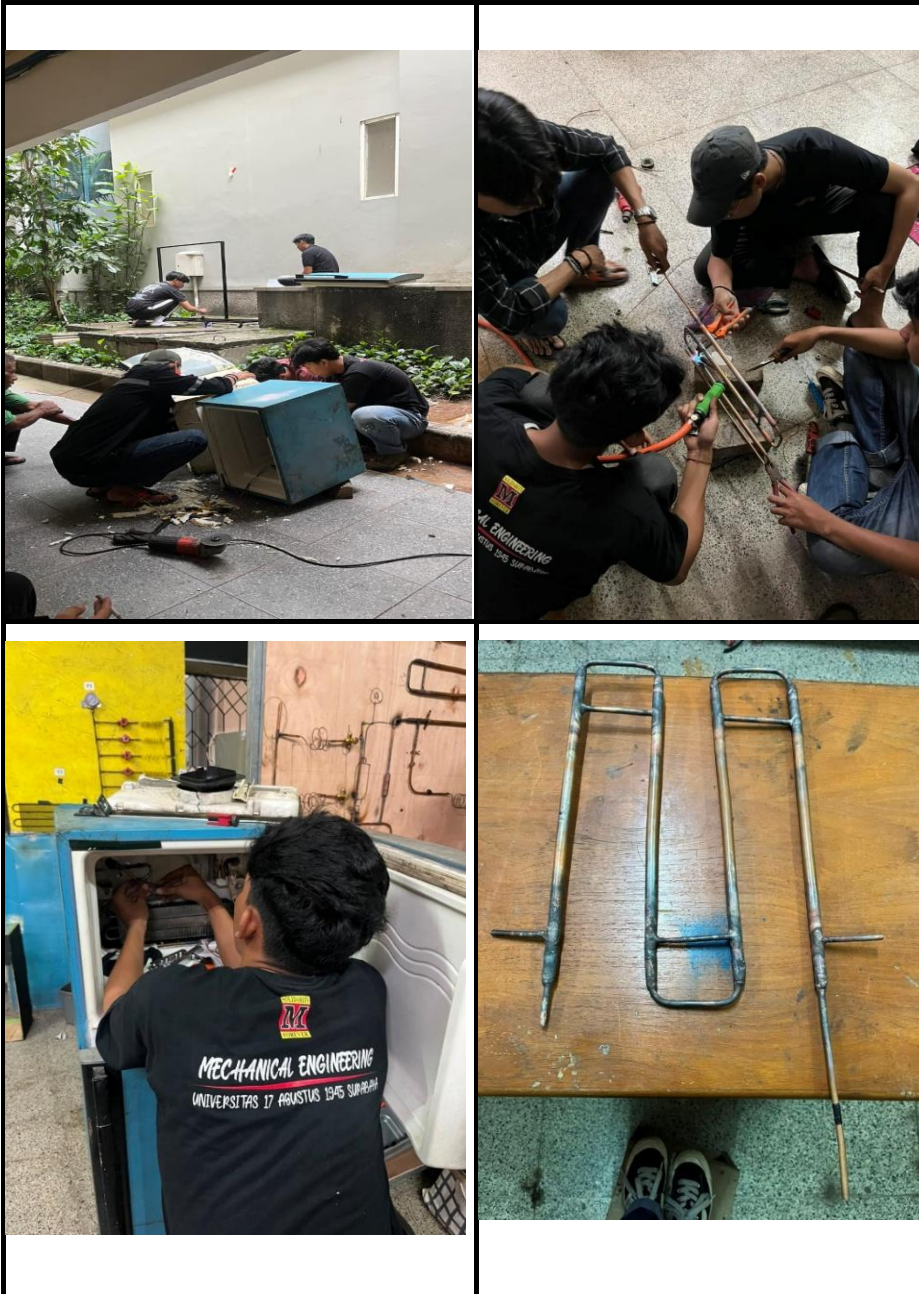
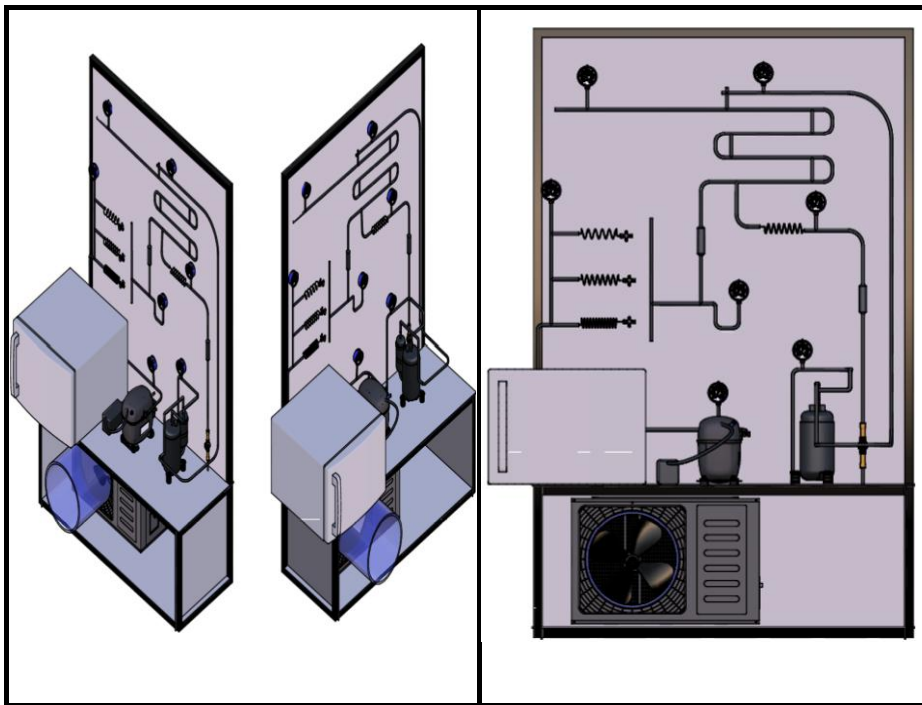


LAMPIRAN

➤ Lampiran Kegiatan







Absolute pressure	LIQUID					VAPOUR					Latent heat
	Bubble point	Volume	Density	Enthalpy	Entropy	Dew point	Volume	Density	Enthalpy	Entropy	
P	t'	v'	p'	h'	s'	t'	v'	p'	h'	s'	Lv
(bar)	(°C)	(dm ³ /kg)	(kg/dm ³)	(kJ/kg)	(kJ/kg.K)	(°C)	(m ³ /kg)	(kg/m ³)	(kJ/kg)	(kJ/kg.K)	(kJ/kg)
0.038	-100	0.747	1.339	38.826	0.271	-100.0	7.222	0.138	468.306	2.751	429.480
0.059	-95	0.754	1.327	46.824	0.315	-95.0	4.798	0.208	471.481	2.700	424.858
0.089	-90	0.761	1.314	54.418	0.359	-90.0	3.272	0.306	474.614	2.653	420.196
0.130	-85	0.769	1.301	62.214	0.401	-85.0	2.286	0.438	477.697	2.609	415.483
0.187	-80	0.776	1.288	70.016	0.442	-80.0	1.632	0.613	480.723	2.568	410.707
0.262	-75	0.784	1.275	77.828	0.481	-75.0	1.188	0.842	483.684	2.530	405.856
0.361	-70	0.792	1.262	85.656	0.520	-70.0	0.881	1.135	486.573	2.494	400.917
0.488	-65	0.801	1.249	93.504	0.558	-65.0	0.664	1.507	489.384	2.460	395.880
0.650	-60	0.809	1.236	101.376	0.596	-60.0	0.508	1.969	492.109	2.429	390.732
0.852	-55	0.818	1.222	109.279	0.632	-55.0	0.394	2.538	494.741	2.399	385.482
1.013	-51.66	0.824	1.213	114.584	0.656	-51.66	0.335	2.987	496.447	2.380	381.863
1.101	-50	0.828	1.208	117.218	0.668	-50.0	0.309	3.232	497.275	2.371	380.057
1.406	-45	0.837	1.194	125.198	0.704	-45.0	0.246	4.067	499.703	2.345	374.504
1.774	-40	0.847	1.180	133.226	0.738	-40.0	0.197	5.065	502.017	2.320	368.792
2.214	-35	0.858	1.166	141.307	0.772	-35.0	0.160	6.248	504.211	2.296	362.904
2.734	-30	0.869	1.151	149.448	0.806	-30.0	0.131	7.639	506.274	2.273	356.827
3.346	-25	0.880	1.136	157.656	0.839	-25.0	0.108	9.266	508.199	2.252	350.542
4.058	-20	0.892	1.121	165.940	0.872	-20.0	0.090	11.157	509.972	2.231	344.033
4.881	-15	0.905	1.105	174.306	0.904	-15.0	0.075	13.346	511.584	2.211	337.278
5.826	-10	0.918	1.089	182.785	0.937	-10.0	0.063	15.870	513.020	2.192	330.255
6.906	-5	0.933	1.072	191.326	0.968	-5.0	0.053	18.769	514.264	2.173	322.938
8.131	0	0.948	1.055	200.000	1.000	0.0	0.045	22.091	515.299	2.154	315.299
9.514	5	0.964	1.038	208.801	1.031	5.0	0.039	25.891	516.106	2.136	307.305
11.069	10	0.981	1.020	217.742	1.063	10.0	0.033	30.232	516.680	2.118	298.917
12.808	15	0.999	1.001	226.842	1.094	15.0	0.028	35.190	516.934	2.101	290.092
14.746	20	1.019	0.981	236.121	1.125	20.0	0.024	40.856	516.897	2.083	280.777
16.896	25	1.041	0.961	245.602	1.157	25.0	0.021	47.339	516.510	2.065	270.908
19.275	30	1.064	0.940	255.317	1.188	30.0	0.018	54.776	515.725	2.047	260.408
21.898	35	1.090	0.917	265.303	1.220	35.0	0.016	63.343	514.482	2.028	249.179
24.783	40	1.120	0.893	275.611	1.252	40.0	0.014	73.268	512.706	2.009	237.094
27.948	45	1.153	0.867	286.308	1.285	45.0	0.012	84.859	510.294	1.989	223.986
31.412	50	1.192	0.839	297.486	1.318	50.0	0.010	98.550	507.104	1.967	209.618
35.199	55	1.237	0.808	309.286	1.353	55.0	0.009	114.989	502.930	1.943	193.644
39.332	60	1.293	0.773	321.927	1.390	60.0	0.007	135.213	497.441	1.917	175.514
43.843	65	1.366	0.732	335.800	1.429	65.0	0.006	161.092	490.054	1.885	154.254
48.768	70	1.469	0.681	351.734	1.474	70.0	0.005	196.688	479.518	1.846	127.784
54.168	75	1.650	0.606	372.391	1.531	75.0	0.004	255.587	461.723	1.788	89.333

Sat. Temp. °C	Sat. Pressure bar	Superheat (°C)																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-100	0.008	468.306	471.821	475.341	478.869	482.408	485.962	489.532	493.121	496.729	500.359	504.012	507.688	511.390	515.118	518.874	522.658	526.471	530.314	534.189	538.095	542.034
-95	0.059	471.481	475.046	478.610	482.179	485.758	489.350	492.957	496.581	500.224	503.889	507.576	511.287	515.023	518.786	522.576	526.395	530.243	534.122	538.033	541.976	545.952
-90	0.089	474.614	478.235	481.849	485.465	489.088	492.721	496.368	500.032	503.713	507.415	511.139	514.887	518.660	522.460	526.287	530.142	534.028	537.944	541.892	545.873	549.887
-85	0.130	477.897	481.581	485.262	488.920	492.582	496.251	499.932	503.628	507.341	511.073	514.827	518.595	522.377	526.183	530.001	533.836	537.691	541.576	545.764	549.784	553.830
-80	0.187	480.723	484.478	488.212	491.938	495.663	499.392	503.132	506.884	510.652	514.438	518.245	522.075	525.929	529.809	533.716	537.652	541.618	545.614	549.643	553.704	557.799
-75	0.262	483.684	487.519	491.323	495.112	498.895	502.680	506.472	510.274	514.091	517.924	521.777	525.652	529.551	533.475	537.426	541.405	545.414	549.454	553.528	557.630	561.768
-70	0.361	486.573	490.485	494.376	498.254	502.082	505.927	509.776	513.632	517.502	521.386	525.289	529.212	533.158	537.129	541.126	545.152	549.206	553.291	557.408	561.557	565.740
-65	0.488	489.384	493.401	497.366	501.300	505.217	509.127	513.038	516.953	520.879	524.818	528.773	532.748	536.745	540.766	544.812	548.886	552.988	557.121	561.284	565.481	569.710
-60	0.650	492.109	496.230	500.286	504.302	508.294	512.275	516.251	520.230	524.216	528.213	532.225	536.255	540.306	544.379	548.477	552.602	556.755	560.937	565.151	569.396	573.674
-55	0.852	494.741	498.975	503.128	507.232	511.306	515.362	519.410	523.456	527.507	531.566	535.639	539.727	543.835	547.964	552.117	556.296	560.502	564.736	568.991	573.268	577.576
-51.66	1.013	496.447	500.780	505.083	509.359	513.621	517.890	522.168	526.452	530.742	535.037	539.337	543.642	547.951	552.265	556.584	560.908	565.237	569.571	573.910	578.264	582.631
-50	1.101	497.275	501.628	505.887	510.086	514.246	518.383	522.507	526.626	530.745	534.871	538.998	543.159	547.327	551.515	555.726	559.961	564.222	568.512	572.831	577.181	581.562
-45	1.406	499.703	504.184	508.555	512.855	517.108	521.381	525.536	529.732	533.925	538.122	542.327	546.543	550.775	555.028	559.297	563.592	567.912	572.259	576.634	581.040	585.476
-40	1.774	502.017	506.634	511.124	515.532	519.884	524.200	528.491	532.769	537.041	541.312	545.589	549.875	554.174	558.491	562.826	567.181	571.565	575.972	580.403	584.870	589.364
-35	2.214	504.211	508.971	513.588	518.111	522.569	526.982	531.365	535.730	540.084	544.435	548.788	553.148	557.518	561.894	566.307	570.720	575.175	579.645	584.141	588.666	593.219
-30	2.734	506.274	511.187	515.939	520.583	525.153	529.670	534.151	538.608	543.050	547.485	551.918	556.356	560.801	565.259	569.733	574.225	578.738	583.273	587.834	592.421	597.033
-25	3.346	508.199	513.272	518.168	522.941	527.630	532.258	536.842	541.397	545.932	550.455	554.973	559.492	564.011	568.532	573.099	577.663	582.247	586.851	591.479	596.132	600.812
-20	4.058	509.972	515.218	520.265	525.177	529.992	534.737	539.451	544.089	548.722	553.359	557.947	562.552	567.160	571.775	576.400	581.040	585.697	590.373	595.071	599.793	604.540
-15	4.881	511.584	517.012	522.222	527.280	532.230	537.099	541.910	546.678	551.415	556.131	560.833	565.529	570.224	574.923	579.630	584.349	589.083	593.834	598.605	603.399	608.216
-10	5.826	513.020	518.644	524.028	529.243	534.336	539.338	544.272	549.156	554.000	558.823	563.625	568.416	573.203	577.991	582.783	587.585	592.399	597.229	602.076	606.944	611.834
-5	6.906	514.264	520.101	525.671	531.054	536.299	541.443	546.509	551.516	556.479	561.409	566.316	571.208	576.082	580.972	585.854	590.743	595.641	600.553	605.479	610.425	615.390
0	8.131	515.299	521.367	527.139	532.702	538.112	543.406	548.611	553.749	558.836	563.883	568.901	573.899	578.883	583.861	588.838	593.817	598.803	603.800	608.810	613.835	618.879
5	9.514	516.106	522.426	528.417	534.175	539.761	545.217	550.572	555.849	561.066	566.236	571.372	576.481	581.573	586.653	591.728	596.802	601.880	606.966	612.062	617.172	622.297
10	11.069	516.860	523.559	529.491	535.461	541.237	546.866	552.381	557.807	563.162	568.463	573.722	578.950	584.153	589.341	594.520	599.693	604.868	610.046	615.232	620.429	625.640
15	12.808	516.934	524.046	530.343	536.544	542.587	548.543	554.429	560.259	566.021	571.725	577.372	582.970	588.529	594.058	599.566	605.061	610.553	616.043	621.531	627.019	632.506
20	14.746	516.897	524.482	530.953	537.409	543.617	549.635	555.506	561.260	566.921	572.508	578.037	583.519	588.966	594.386	599.786	605.174	610.553	615.930	621.306	626.680	632.051
25	16.896	516.510	524.479	531.302	538.039	544.483	550.731	556.801	562.737	568.566	574.311	579.986	585.608	591.186	596.731	602.251	607.752	613.242	618.724	624.204	629.685	635.172
30	19.275	515.725	523.864	531.382	538.414	545.140	551.618	557.903	564.035	570.045	575.956	581.788	587.557	593.274	598.950	604.596	610.217	615.821	621.414	627.001	632.585	638.170
35	21.898	514.482	523.179	531.108	538.513	545.540	552.280	558.799	565.143	571.347	577.437	583.435	589.359	595.223	601.038	606.815	612.563	618.287	623.996	629.690	635.384	641.073
40	24.783	512.706	522.074	530.505	538.312	545.674	552.704	559.478	566.051	572.463	578.744	584.919	591.008	597.027	602.989	608.905	614.784	620.635	626.464	632.277	638.080	643.876
45	27.948	510.294	520.484	528.515	537.782	546.521	554.872	562.872	570.559	578.069	585.433	592.687	599.850	606.940	613.974	620.969	627.934	634.888	641.831	648.764	655.697	662.630
50	31.412	507.104	518.365	526.095	534.683	542.558	550.765	558.350	566.261	574.096	581.802	589.314	596.663	603.883	610.999	618.029	625.000	631.941	638.871	645.799	652.726	659.653
55	35.199	502.930	515.595	524.191	532.611	540.894	549.098	557.181	565.192	573.083	580.902	588.593	596.199	603.755	610.855	617.922	624.948	631.939	638.931	645.945	652.961	659.986
60	39.332	497.441	512.067	523.741	533.894	543.098	551.649	559.721	567.430	574.853	582.049	589.061	595.921	602.657	609.280	615.838	622.314	628.732	635.102	641.431	647.729	654.001
65	43.843	490.054	507.624	520.670	531.697	541.539	550.591	559.076	567.137	574.868	582.332	589.595	596.681	603.624	610.449	617.177	623.822	630.399	636.920	643.393	649.826	656.231
70	48.768	479.516	502.063	516.887	528.963	539.539	548.155	556.089	564.545	571.610	578.274	584.687	590.977	597.222	603.436	611.415	618.332	625.155	631.900	638.579	645.202	651.781
75	54.168	461.723	485.093	512.260	525.598	537.025	547.279	556.732	565.603	574.032	582.115	589.922	597.505	604.904	612.150	619.299	626.384	633.429	640.484	647.559	654.634	661.709

V = Volume in m³/kg			H = Enthalpy in kJ/kg			S = Entropy in kJ/(kg·K)			Saturation Properties in Light Blue				
Absolute Pressure [kPa]													
Temp [°C]	850.0			900.0			950.0			1000.0			Temp [°C]
	11.37 °C			13.34 °C			15.24 °C			17.06 °C			
	V	H	S	V	H	S	V	H	S	V	H	S	
	0.0234	374.3	1.6134	0.0221	375.2	1.6128	0.0209	376.1	1.6122	0.0198	377.0	1.6116	
15	0.0240	377.7	1.6254	0.0223	376.8	1.6183							15
20	0.0247	382.4	1.6417	0.0230	381.6	1.6348	0.0215	380.8	1.6281	0.0201	379.9	1.6215	20
25	0.0254	387.2	1.6578	0.0237	386.4	1.6510	0.0222	385.6	1.6444	0.0208	384.8	1.6380	25
30	0.0261	392.0	1.6736	0.0243	391.2	1.6670	0.0228	390.4	1.6605	0.0214	389.6	1.6543	30
35	0.0267	396.8	1.6893	0.0250	396.0	1.6828	0.0234	395.3	1.6764	0.0220	394.5	1.6703	35
40	0.0274	401.6	1.7048	0.0256	400.9	1.6984	0.0240	400.2	1.6921	0.0226	399.5	1.6861	40
45	0.0280	406.4	1.7201	0.0263	405.7	1.7138	0.0246	405.1	1.7077	0.0232	404.4	1.7017	45
50	0.0287	411.3	1.7353	0.0269	410.6	1.7290	0.0252	410.0	1.7230	0.0238	409.3	1.7172	50
55	0.0293	416.2	1.7503	0.0275	415.6	1.7441	0.0258	414.9	1.7382	0.0243	414.3	1.7324	55
60	0.0300	421.1	1.7652	0.0281	420.5	1.7591	0.0264	419.9	1.7532	0.0249	419.3	1.7475	60
65	0.0306	426.0	1.7800	0.0287	425.5	1.7739	0.0270	424.9	1.7681	0.0255	424.3	1.7625	65
70	0.0312	431.0	1.7946	0.0293	430.5	1.7886	0.0276	429.9	1.7828	0.0260	429.4	1.7773	70
75	0.0318	436.0	1.8091	0.0299	435.5	1.8032	0.0281	435.0	1.7975	0.0265	434.4	1.7920	75
80	0.0324	441.1	1.8235	0.0304	440.6	1.8176	0.0287	440.1	1.8120	0.0271	439.5	1.8065	80
85	0.0330	446.2	1.8378	0.0310	445.7	1.8319	0.0292	445.2	1.8263	0.0276	444.7	1.8210	85
90	0.0336	451.3	1.8520	0.0316	450.8	1.8462	0.0298	450.3	1.8406	0.0281	449.8	1.8353	90
95	0.0342	456.4	1.8661	0.0322	456.0	1.8603	0.0303	455.5	1.8548	0.0287	455.0	1.8495	95
100	0.0348	461.6	1.8800	0.0327	461.2	1.8743	0.0309	460.7	1.8688	0.0292	460.2	1.8635	100
105	0.0354	466.8	1.8939	0.0333	466.4	1.8882	0.0314	465.9	1.8828	0.0297	465.5	1.8775	105
110	0.0360	472.1	1.9077	0.0338	471.6	1.9020	0.0319	471.2	1.8966	0.0302	470.8	1.8914	110
115	0.0366	477.4	1.9214	0.0344	476.9	1.9157	0.0325	476.5	1.9104	0.0307	476.1	1.9052	115
120	0.0371	482.7	1.9350	0.0349	482.3	1.9294	0.0330	481.8	1.9240	0.0312	481.4	1.9189	120
125	0.0377	488.0	1.9485	0.0355	487.6	1.9429	0.0335	487.2	1.9376	0.0317	486.8	1.9325	125
130	0.0383	493.4	1.9619	0.0360	493.0	1.9564	0.0340	492.6	1.9511	0.0322	492.2	1.9460	130
135	0.0388	498.8	1.9753	0.0366	498.4	1.9697	0.0345	498.0	1.9644	0.0327	497.7	1.9594	135
140	0.0394	504.2	1.9885	0.0371	503.9	1.9830	0.0351	503.5	1.9777	0.0332	503.1	1.9727	140
145	0.0400	509.7	2.0017	0.0376	509.4	1.9962	0.0356	509.0	1.9910	0.0337	508.6	1.9860	145
150	0.0405	515.2	2.0148	0.0382	514.9	2.0093	0.0361	514.5	2.0041	0.0342	514.2	1.9991	150
155	0.0411	520.8	2.0278	0.0387	520.4	2.0224	0.0366	520.1	2.0172	0.0347	519.7	2.0122	155
160	0.0417	526.3	2.0407	0.0392	526.0	2.0353	0.0371	525.7	2.0301	0.0351	525.3	2.0252	160
165	0.0422	531.9	2.0536	0.0398	531.6	2.0482	0.0376	531.3	2.0430	0.0356	531.0	2.0381	165
170							0.0381	536.9	2.0559	0.0361	536.6	2.0510	170

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg·K) Saturation Properties in Light Blue													
Absolute Pressure [kPa]													
Temp [°C]	1100.0			1200.0			1300.0			1400.0			Temp [°C]
	20.50 °C			23.71 °C			26.73 °C			29.59 °C			
	V	H	S	V	H	S	V	H	S	V	H	S	
	0.0178	378.5	1.6105	0.0162	379.9	1.6093	0.0148	381.0	1.6080	0.0136	382.1	1.6067	
25	0.0184	383.0	1.6257	0.0164	381.2	1.6137							25
30	0.0190	388.0	1.6422	0.0170	386.3	1.6306	0.0152	384.5	1.6193	0.0137	382.5	1.6082	30
35	0.0196	393.0	1.6585	0.0175	391.4	1.6473	0.0158	389.7	1.6364	0.0142	387.9	1.6257	35
40	0.0201	398.0	1.6746	0.0181	396.4	1.6636	0.0163	394.8	1.6530	0.0148	393.2	1.6427	40
45	0.0207	403.0	1.6904	0.0186	401.5	1.6797	0.0168	400.0	1.6694	0.0153	398.4	1.6594	45
50	0.0212	408.0	1.7061	0.0191	406.6	1.6955	0.0173	405.2	1.6855	0.0157	403.7	1.6757	50
55	0.0218	413.0	1.7215	0.0196	411.7	1.7112	0.0178	410.3	1.7013	0.0162	408.9	1.6918	55
60	0.0223	418.1	1.7367	0.0201	416.8	1.7266	0.0183	415.5	1.7169	0.0167	414.1	1.7076	60
65	0.0228	423.1	1.7518	0.0206	421.9	1.7418	0.0187	420.7	1.7323	0.0171	419.4	1.7232	65
70	0.0233	428.2	1.7668	0.0211	427.0	1.7569	0.0192	425.8	1.7476	0.0176	424.6	1.7386	70
75	0.0238	433.3	1.7816	0.0216	432.2	1.7718	0.0196	431.1	1.7626	0.0180	429.9	1.7539	75
80	0.0243	438.5	1.7962	0.0220	437.4	1.7866	0.0201	436.3	1.7775	0.0184	435.2	1.7689	80
85	0.0248	443.6	1.8108	0.0225	442.6	1.8012	0.0205	441.5	1.7923	0.0188	440.4	1.7838	85
90	0.0253	448.8	1.8252	0.0230	447.8	1.8157	0.0210	446.8	1.8069	0.0193	445.7	1.7985	90
95	0.0258	454.1	1.8395	0.0234	453.1	1.8301	0.0214	452.1	1.8214	0.0197	451.1	1.8130	95
100	0.0263	459.3	1.8536	0.0239	458.4	1.8444	0.0218	457.4	1.8357	0.0201	456.4	1.8275	100
105	0.0268	464.6	1.8677	0.0243	463.7	1.8585	0.0222	462.7	1.8499	0.0205	461.8	1.8418	105
110	0.0272	469.9	1.8816	0.0248	469.0	1.8725	0.0227	468.1	1.8640	0.0209	467.2	1.8560	110
115	0.0277	475.2	1.8955	0.0252	474.4	1.8865	0.0231	473.5	1.8780	0.0212	472.6	1.8700	115
120	0.0282	480.6	1.9092	0.0256	479.8	1.9003	0.0235	478.9	1.8919	0.0216	478.1	1.8840	120
125	0.0286	486.0	1.9229	0.0261	485.2	1.9140	0.0239	484.4	1.9057	0.0220	483.5	1.8978	125
130	0.0291	491.4	1.9364	0.0265	490.6	1.9276	0.0243	489.9	1.9193	0.0224	489.0	1.9116	130
135	0.0295	496.9	1.9499	0.0269	496.1	1.9411	0.0247	495.4	1.9329	0.0228	494.6	1.9252	135
140	0.0300	502.4	1.9633	0.0273	501.6	1.9545	0.0251	500.9	1.9464	0.0231	500.1	1.9387	140
145	0.0305	507.9	1.9766	0.0278	507.2	1.9679	0.0255	506.5	1.9598	0.0235	505.7	1.9522	145
150	0.0309	513.5	1.9898	0.0282	512.8	1.9811	0.0259	512.0	1.9731	0.0239	511.3	1.9655	150
155	0.0313	519.1	2.0029	0.0286	518.4	1.9943	0.0262	517.7	1.9863	0.0242	517.0	1.9788	155
160	0.0318	524.7	2.0159	0.0290	524.0	2.0074	0.0266	523.3	1.9994	0.0246	522.6	1.9919	160
165	0.0322	530.3	2.0289	0.0294	529.7	2.0204	0.0270	529.0	2.0124	0.0250	528.3	2.0050	165
170	0.0327	536.0	2.0418	0.0298	535.3	2.0333	0.0274	534.7	2.0254	0.0253	534.1	2.0180	170
175	0.0331	541.7	2.0546	0.0302	541.1	2.0461	0.0278	540.4	2.0382	0.0257	539.8	2.0309	175
180							0.0282	546.2	2.0510	0.0260	545.6	2.0437	180

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Refrigerant

Table 1. Freon™ 404A Saturation Properties—Temperature Table

Temp [°C]	Pressure [kPa]		Volume [m³/kg]		Density [kg/m³]		Enthalpy [kJ/kg]			Entropy [kJ/(kg·K)]		Temp [°C]
	Liquid p_s	Vapor p_s	Liquid v_f	Vapor v_g	Liquid $1/v_f$	Vapor $1/v_g$	Liquid h_f	Latent h_{fg}	Vapor h_g	Liquid s_f	Vapor s_g	
-100	3.0	2.7	0.0007	5.3706	1436.6	0.186	75.6	229.6	305.2	0.4409	1.7728	-100
-99	3.3	3.0	0.0007	4.9310	1435.2	0.203	76.7	229.2	305.8	0.4472	1.7685	-99
-98	3.6	3.3	0.0007	4.5310	1433.7	0.221	77.8	228.7	306.5	0.4534	1.7644	-98
-97	3.9	3.6	0.0007	4.1701	1432.1	0.240	78.9	228.2	307.1	0.4596	1.7604	-97
-96	4.3	3.9	0.0007	3.8432	1430.4	0.260	80.0	227.7	307.7	0.4658	1.7565	-96
-95	4.6	4.3	0.0007	3.5448	1428.8	0.282	81.1	227.3	308.3	0.4719	1.7527	-95
-94	5.1	4.6	0.0007	3.2733	1427.0	0.306	82.1	226.8	308.9	0.4781	1.7489	-94
-93	5.5	5.1	0.0007	3.0257	1425.2	0.331	83.2	226.3	309.6	0.4842	1.7452	-93
-92	5.9	5.5	0.0007	2.7996	1423.3	0.357	84.4	225.8	310.2	0.4903	1.7417	-92
-91	6.4	6.0	0.0007	2.5934	1421.4	0.386	85.5	225.4	310.8	0.4963	1.7382	-91
-90	7.0	6.5	0.0007	2.4044	1419.5	0.416	86.6	224.9	311.4	0.5024	1.7347	-90
-89	7.5	7.0	0.0007	2.2321	1417.5	0.448	87.7	224.4	312.1	0.5084	1.7314	-89
-88	8.1	7.6	0.0007	2.0738	1415.4	0.482	88.8	223.9	312.7	0.5145	1.7281	-88
-87	8.8	8.2	0.0007	1.9286	1413.3	0.519	89.9	223.4	313.3	0.5205	1.7250	-87
-86	9.5	8.8	0.0007	1.7953	1411.2	0.557	91.0	222.9	314.0	0.5264	1.7219	-86
-85	10.2	9.5	0.0007	1.6728	1409.0	0.598	92.1	222.5	314.6	0.5324	1.7188	-85
-84	11.0	10.3	0.0007	1.5598	1406.8	0.641	93.3	222.0	315.2	0.5383	1.7159	-84
-83	11.8	11.1	0.0007	1.4560	1404.5	0.687	94.4	221.5	315.9	0.5443	1.7130	-83
-82	12.7	11.9	0.0007	1.3602	1402.2	0.735	95.5	221.0	316.5	0.5502	1.7101	-82
-81	13.6	12.8	0.0007	1.2718	1399.8	0.786	96.6	220.5	317.1	0.5561	1.7074	-81
-80	14.6	13.7	0.0007	1.1902	1397.4	0.840	97.8	220.0	317.8	0.5620	1.7047	-80
-79	15.7	14.7	0.0007	1.1147	1395.0	0.897	98.9	219.5	318.4	0.5678	1.7021	-79
-78	16.8	15.8	0.0007	1.0448	1392.6	0.957	100.0	219.0	319.1	0.5737	1.6995	-78
-77	17.9	16.9	0.0007	0.9801	1390.1	1.020	101.2	218.5	319.7	0.5795	1.6970	-77
-76	19.2	18.1	0.0007	0.9201	1387.6	1.087	102.3	218.0	320.4	0.5853	1.6945	-76
-75	20.5	19.3	0.0007	0.8645	1385.0	1.157	103.5	217.5	321.0	0.5911	1.6922	-75
-74	21.9	20.7	0.0007	0.8128	1382.4	1.230	104.6	217.0	321.6	0.5969	1.6898	-74
-73	23.3	22.1	0.0007	0.7648	1379.8	1.308	105.8	216.5	322.3	0.6027	1.6876	-73
-72	24.8	23.5	0.0007	0.7201	1377.2	1.389	106.9	216.0	322.9	0.6084	1.6854	-72
-71	26.5	25.1	0.0007	0.6785	1374.5	1.474	108.1	215.5	323.6	0.6142	1.6832	-71
-70	28.2	26.7	0.0007	0.6398	1371.9	1.563	109.3	215.0	324.2	0.6199	1.6811	-70
-69	29.9	28.4	0.0007	0.6036	1369.1	1.657	110.4	214.5	324.9	0.6256	1.6790	-69
-68	31.8	30.2	0.0007	0.5700	1366.4	1.755	111.6	214.0	325.5	0.6313	1.6770	-68
-67	33.8	32.1	0.0007	0.5385	1363.6	1.857	112.8	213.4	326.2	0.6370	1.6751	-67
-66	35.8	34.1	0.0007	0.5091	1360.9	1.964	113.9	212.9	326.8	0.6427	1.6732	-66
-65	38.0	36.2	0.0007	0.4816	1358.1	2.076	115.1	212.4	327.5	0.6483	1.6713	-65
-64	40.3	38.4	0.0007	0.4559	1355.2	2.193	116.3	211.9	328.2	0.6540	1.6695	-64
-63	42.7	40.7	0.0007	0.4319	1352.4	2.316	117.5	211.3	328.8	0.6596	1.6678	-63
-62	45.2	43.1	0.0007	0.4093	1349.6	2.443	118.7	210.8	329.5	0.6652	1.6661	-62
-61	47.8	45.7	0.0007	0.3881	1346.7	2.577	119.8	210.3	330.1	0.6708	1.6644	-61
-60	50.5	48.3	0.0007	0.3683	1343.8	2.715	121.0	209.7	330.8	0.6764	1.6628	-60
-59	53.3	51.1	0.0007	0.3497	1340.9	2.860	122.2	209.2	331.4	0.6820	1.6612	-59
-58	56.3	54.0	0.0007	0.3321	1337.9	3.011	123.4	208.6	332.1	0.6876	1.6596	-58
-57	59.4	57.0	0.0007	0.3157	1335.0	3.168	124.6	208.1	332.7	0.6931	1.6581	-57
-56	62.7	60.2	0.0008	0.3002	1332.1	3.331	125.8	207.5	333.4	0.6987	1.6567	-56
-55	66.1	63.4	0.0008	0.2856	1329.1	3.501	127.1	207.0	334.0	0.7042	1.6552	-55
-54	69.6	66.9	0.0008	0.2719	1326.1	3.678	128.3	206.4	334.7	0.7098	1.6539	-54
-53	73.3	70.5	0.0008	0.2590	1323.1	3.861	129.5	205.9	335.3	0.7153	1.6525	-53
-52	77.1	74.2	0.0008	0.2468	1320.1	4.052	130.7	205.3	336.0	0.7208	1.6512	-52
-51	81.1	78.1	0.0008	0.2353	1317.1	4.250	131.9	204.7	336.7	0.7263	1.6499	-51
-50	85.2	82.1	0.0008	0.2244	1314.1	4.456	133.1	204.2	337.3	0.7318	1.6487	-50
-49	89.5	86.4	0.0008	0.2142	1311.0	4.670	134.4	203.6	338.0	0.7373	1.6475	-49
-48	94.0	90.7	0.0008	0.2045	1308.0	4.891	135.6	203.0	338.6	0.7427	1.6463	-48
-47	98.7	95.3	0.0008	0.1953	1304.9	5.121	136.8	202.4	339.3	0.7482	1.6451	-47
-46	103.5	100.0	0.0008	0.1866	1301.8	5.359	138.1	201.8	339.9	0.7537	1.6440	-46
-45	108.6	104.9	0.0008	0.1784	1298.8	5.605	139.3	201.2	340.6	0.7591	1.6430	-45
-44	113.8	110.1	0.0008	0.1706	1295.7	5.861	140.6	200.6	341.2	0.7645	1.6419	-44
-43	119.2	115.4	0.0008	0.1633	1292.6	6.125	141.8	200.0	341.9	0.7700	1.6409	-43
-42	124.8	120.9	0.0008	0.1563	1289.5	6.399	143.1	199.4	342.5	0.7754	1.6399	-42
-41	130.6	126.6	0.0008	0.1496	1286.4	6.682	144.3	198.8	343.2	0.7808	1.6389	-41

Freon™ 404A												Refrigerant
Table 1. Freon™ 404A Saturation Properties—Temperature Table (continued)												
Temp [°C]	Pressure [kPa]		Volume [m³/kg]		Density [kg/m³]		Enthalpy [kJ/kg]			Entropy [kJ/(kg K)]		Temp [°C]
	Liquid p_s	Vapor p_s	Liquid v_f	Vapor v_g	Liquid $1/v_f$	Vapor $1/v_g$	Liquid H_f	Latent H_g	Vapor H_g	Liquid S_f	Vapor S_g	
-40	136.7	132.5	0.0008	0.1434	1283.2	6.975	145.6	198.2	343.8	0.7862	1.6380	-40
-39	142.9	138.6	0.0008	0.1374	1280.1	7.278	146.9	197.6	344.5	0.7916	1.6371	-39
-38	149.4	144.9	0.0008	0.1317	1277.0	7.592	148.1	197.0	345.1	0.7970	1.6362	-38
-37	156.1	151.5	0.0008	0.1263	1273.8	7.916	149.4	196.3	345.8	0.8024	1.6353	-37
-36	163.0	158.3	0.0008	0.1212	1270.7	8.250	150.7	195.7	346.4	0.8077	1.6345	-36
-35	170.1	165.3	0.0008	0.1163	1267.5	8.595	152.4	194.6	347.0	0.8150	1.6337	-35
-34	177.5	172.6	0.0008	0.1117	1264.4	8.951	153.7	194.0	347.7	0.8203	1.6330	-34
-33	185.2	180.1	0.0008	0.1073	1261.2	9.319	155.0	193.4	348.3	0.8256	1.6322	-33
-32	193.0	187.8	0.0008	0.1031	1258.0	9.698	156.3	192.7	349.0	0.8309	1.6315	-32
-31	201.2	195.8	0.0008	0.0991	1254.9	10.090	157.5	192.1	349.6	0.8362	1.6308	-31
-30	209.5	204.1	0.0008	0.0953	1251.7	10.492	159.9	190.3	350.3	0.8460	1.6301	-30
-29	218.2	212.5	0.0008	0.0917	1248.5	10.906	161.2	189.7	350.9	0.8512	1.6295	-29
-28	227.0	221.3	0.0008	0.0882	1245.3	11.332	162.5	189.1	351.5	0.8563	1.6289	-28
-27	236.2	230.3	0.0008	0.0849	1242.2	11.772	163.7	188.4	352.2	0.8615	1.6283	-27
-26	245.7	239.7	0.0008	0.0818	1239.0	12.225	165.0	187.8	352.8	0.8667	1.6277	-26
-25	255.4	249.3	0.0008	0.0788	1235.8	12.692	166.3	187.1	353.4	0.8718	1.6271	-25
-24	265.4	259.2	0.0008	0.0759	1232.5	13.174	167.6	186.5	354.0	0.8769	1.6265	-24
-23	275.8	269.4	0.0008	0.0732	1229.3	13.669	168.9	185.8	354.7	0.8821	1.6260	-23
-22	286.4	279.9	0.0008	0.0705	1226.1	14.180	170.2	185.1	355.3	0.8872	1.6255	-22
-21	297.4	290.7	0.0008	0.0680	1222.8	14.705	171.5	184.4	355.9	0.8924	1.6250	-21
-20	308.7	301.8	0.0008	0.0656	1219.6	15.246	172.8	183.8	356.5	0.8975	1.6245	-20
-19	320.3	313.3	0.0008	0.0633	1216.3	15.803	174.1	183.1	357.1	0.9026	1.6240	-19
-18	332.2	325.1	0.0008	0.0611	1213.1	16.376	175.4	182.4	357.8	0.9078	1.6235	-18
-17	344.5	337.2	0.0008	0.0589	1209.8	16.966	176.7	181.7	358.4	0.9129	1.6231	-17
-16	357.1	349.7	0.0008	0.0569	1206.5	17.572	178.0	180.9	359.0	0.9180	1.6226	-16
-15	370.1	362.5	0.0008	0.0550	1203.2	18.196	179.4	180.2	359.6	0.9231	1.6222	-15
-14	383.4	375.7	0.0008	0.0531	1199.8	18.838	180.7	179.5	360.2	0.9282	1.6218	-14
-13	397.1	389.2	0.0008	0.0513	1196.5	19.498	182.1	178.7	360.8	0.9334	1.6214	-13
-12	411.1	403.1	0.0008	0.0496	1193.2	20.177	183.4	178.0	361.4	0.9385	1.6210	-12
-11	425.6	417.4	0.0008	0.0479	1189.8	20.875	184.7	177.2	362.0	0.9436	1.6206	-11
-10	440.4	432.1	0.0008	0.0463	1186.4	21.593	186.1	176.5	362.6	0.9487	1.6202	-10
-9	455.6	447.2	0.0008	0.0448	1183.0	22.331	187.5	175.7	363.2	0.9538	1.6198	-9
-8	471.2	462.6	0.0008	0.0433	1179.6	23.089	188.8	174.9	363.8	0.9589	1.6195	-8
-7	487.2	478.5	0.0009	0.0419	1176.1	23.868	190.2	174.1	364.3	0.9641	1.6191	-7
-6	503.6	494.7	0.0009	0.0405	1172.7	24.669	191.6	173.3	364.9	0.9692	1.6188	-6
-5	520.5	511.4	0.0009	0.0392	1169.2	25.492	193.0	172.5	365.5	0.9743	1.6184	-5
-4	537.7	528.5	0.0009	0.0380	1165.7	26.338	194.4	171.7	366.1	0.9794	1.6181	-4
-3	555.4	546.1	0.0009	0.0368	1162.2	27.207	195.8	170.9	366.6	0.9846	1.6178	-3
-2	573.5	564.1	0.0009	0.0356	1158.6	28.100	197.2	170.0	367.2	0.9897	1.6175	-2
-1	592.1	582.5	0.0009	0.0345	1155.1	29.018	198.6	169.2	367.7	0.9948	1.6171	-1
0	611.1	601.3	0.0009	0.0334	1151.5	29.960	200.0	168.3	368.3	1.0000	1.6168	0
1	630.6	620.7	0.0009	0.0323	1147.8	30.928	201.4	167.4	368.9	1.0051	1.6165	1
2	650.6	640.5	0.0009	0.0313	1144.2	31.923	202.9	166.5	369.4	1.0102	1.6162	2
3	671.0	660.7	0.0009	0.0304	1140.5	32.944	204.3	165.7	369.9	1.0154	1.6159	3
4	691.9	681.5	0.0009	0.0294	1136.8	33.994	205.7	164.7	370.5	1.0205	1.6156	4
5	713.3	702.7	0.0009	0.0285	1133.0	35.072	207.2	163.8	371.0	1.0257	1.6153	5
6	735.1	724.5	0.0009	0.0276	1129.2	36.179	208.6	162.9	371.5	1.0308	1.6150	6
7	757.5	746.7	0.0009	0.0268	1125.4	37.316	210.1	162.0	372.1	1.0360	1.6147	7
8	780.4	769.5	0.0009	0.0260	1121.6	38.485	211.6	161.0	372.6	1.0412	1.6144	8
9	803.8	792.7	0.0009	0.0252	1117.7	39.685	213.1	160.0	373.1	1.0464	1.6141	9
10	827.8	816.5	0.0009	0.0244	1113.7	40.917	214.5	159.1	373.6	1.0515	1.6138	10
11	852.2	840.8	0.0009	0.0237	1109.8	42.184	216.0	158.1	374.1	1.0567	1.6135	11
12	877.2	865.7	0.0009	0.0230	1105.7	43.485	217.5	157.0	374.6	1.0619	1.6132	12
13	902.8	891.1	0.0009	0.0223	1101.7	44.821	219.1	156.0	375.1	1.0671	1.6129	13
14	928.9	917.1	0.0009	0.0216	1097.5	46.194	220.6	155.0	375.6	1.0723	1.6126	14
15	955.6	943.6	0.0009	0.0210	1093.4	47.605	222.1	153.9	376.0	1.0776	1.6123	15
16	982.8	970.7	0.0009	0.0204	1089.1	49.055	223.6	152.9	376.5	1.0828	1.6120	16
17	1010.6	998.4	0.0009	0.0198	1084.9	50.545	225.2	151.8	377.0	1.0880	1.6116	17
18	1039.0	1026.7	0.0009	0.0192	1080.5	52.076	226.7	150.7	377.4	1.0933	1.6113	18
19	1068.1	1055.6	0.0009	0.0186	1076.1	53.650	228.3	149.6	377.9	1.0985	1.6110	19

Freon™ 404A

Refrigerant

Table 1. Freon™ 404A Saturation Properties—Temperature Table (continued)

Temp [°C]	Pressure [kPa]		Volume [m³/kg]		Density [kg/m³]		Enthalpy [kJ/kg]			Entropy [kJ/(kg·K)]		Temp [°C]
	Liquid p_s	Vapor p_s	Liquid v_f	Vapor v_g	Liquid $1/v_f$	Vapor $1/v_g$	Liquid h_f	Latent h_{fg}	Vapor h_g	Liquid s_f	Vapor s_g	
20	1097.7	1085.1	0.0009	0.0181	1071.7	55.267	229.9	148.4	378.3	1.1038	1.6106	20
21	1127.9	1115.2	0.0009	0.0176	1067.2	56.930	231.5	147.3	378.7	1.1091	1.6103	21
22	1158.7	1145.9	0.0009	0.0171	1062.6	58.640	233.0	146.1	379.2	1.1144	1.6099	22
23	1190.2	1177.2	0.0009	0.0166	1057.9	60.398	234.6	144.9	379.6	1.1197	1.6095	23
24	1222.3	1209.2	0.0009	0.0161	1053.2	62.206	236.3	143.7	380.0	1.1250	1.6091	24
25	1255.0	1241.8	0.0010	0.0156	1048.4	64.066	237.9	142.5	380.4	1.1304	1.6087	25
26	1288.4	1275.1	0.0010	0.0152	1043.5	65.980	239.5	141.3	380.8	1.1357	1.6083	26
27	1322.5	1309.1	0.0010	0.0147	1038.5	67.949	241.2	140.0	381.1	1.1411	1.6079	27
28	1357.2	1343.7	0.0010	0.0143	1033.5	69.975	242.8	138.7	381.5	1.1465	1.6075	28
29	1392.6	1379.0	0.0010	0.0139	1028.3	72.062	244.5	137.4	381.9	1.1519	1.6070	29
30	1428.7	1415.0	0.0010	0.0135	1023.1	74.210	246.2	136.1	382.2	1.1574	1.6065	30
31	1465.4	1451.7	0.0010	0.0131	1017.8	76.422	247.9	134.7	382.6	1.1628	1.6060	31
32	1502.9	1489.1	0.0010	0.0127	1012.3	78.702	249.6	133.3	382.9	1.1683	1.6055	32
33	1541.1	1527.2	0.0010	0.0123	1006.8	81.050	251.3	131.9	383.2	1.1738	1.6050	33
34	1580.0	1566.0	0.0010	0.0120	1001.1	83.472	253.0	130.5	383.5	1.1793	1.6044	34
35	1619.7	1605.6	0.0010	0.0116	995.4	85.968	254.8	129.0	383.8	1.1848	1.6038	35
36	1660.1	1645.9	0.0010	0.0113	989.5	88.543	256.5	127.5	384.1	1.1904	1.6032	36
37	1701.2	1687.0	0.0010	0.0110	983.5	91.201	258.3	126.0	384.3	1.1960	1.6026	37
38	1743.1	1728.8	0.0010	0.0106	977.4	93.944	260.1	124.5	384.6	1.2016	1.6019	38
39	1785.8	1771.4	0.0010	0.0103	971.1	96.777	261.9	122.9	384.8	1.2073	1.6012	39
40	1829.2	1814.8	0.0010	0.0100	964.7	99.704	263.8	121.3	385.0	1.2130	1.6005	40
41	1873.4	1859.0	0.0010	0.0097	958.2	102.730	265.6	119.6	385.2	1.2187	1.5998	41
42	1918.4	1904.0	0.0011	0.0094	951.5	105.860	267.5	117.9	385.4	1.2245	1.5990	42
43	1964.2	1949.8	0.0011	0.0092	944.6	109.098	269.4	116.2	385.6	1.2303	1.5981	43
44	2010.8	1996.4	0.0011	0.0089	937.6	112.452	271.3	114.4	385.7	1.2362	1.5973	44
45	2058.3	2043.9	0.0011	0.0086	930.4	115.926	273.2	112.6	385.8	1.2421	1.5964	45
46	2106.6	2092.2	0.0011	0.0084	923.0	119.529	275.1	110.8	385.9	1.2480	1.5954	46
47	2155.7	2141.3	0.0011	0.0081	915.5	123.267	277.1	108.9	386.0	1.2540	1.5944	47
48	2205.6	2191.3	0.0011	0.0079	907.7	127.150	279.1	107.0	386.1	1.2600	1.5933	48
49	2256.5	2242.2	0.0011	0.0076	899.7	131.185	281.1	105.0	386.1	1.2662	1.5922	49
50	2308.2	2294.0	0.0011	0.0074	891.5	135.384	283.2	102.9	386.1	1.2723	1.5910	50
51	2360.7	2346.6	0.0011	0.0072	883.0	139.757	285.3	100.8	386.1	1.2786	1.5897	51
52	2414.2	2400.2	0.0011	0.0069	874.3	144.317	287.4	98.6	386.0	1.2849	1.5884	52
53	2468.6	2454.6	0.0012	0.0067	865.3	149.078	289.6	96.4	385.9	1.2913	1.5870	53
54	2523.8	2510.0	0.0012	0.0065	856.0	154.056	291.7	94.1	385.8	1.2977	1.5855	54
55	2580.0	2566.4	0.0012	0.0063	846.4	159.270	294.0	91.7	385.7	1.3043	1.5839	55
56	2637.1	2623.7	0.0012	0.0061	836.5	164.738	296.2	89.2	385.5	1.3110	1.5822	56
57	2695.2	2681.9	0.0012	0.0059	826.2	170.486	298.5	86.7	385.2	1.3178	1.5804	57
58	2754.2	2741.1	0.0012	0.0057	815.6	176.541	300.9	84.0	384.9	1.3247	1.5785	58
59	2814.2	2801.4	0.0012	0.0055	804.5	182.935	303.3	81.2	384.6	1.3317	1.5764	59
60	2875.1	2862.6	0.0013	0.0053	792.9	189.706	305.8	78.3	384.2	1.3389	1.5742	60
61	2937.0	2924.8	0.0013	0.0051	780.9	196.901	308.4	75.3	383.7	1.3463	1.5718	61
62	2999.9	2988.0	0.0013	0.0049	768.3	204.575	311.0	72.1	383.1	1.3539	1.5692	62
63	3063.8	3052.3	0.0013	0.0047	755.0	212.799	313.7	68.8	382.5	1.3617	1.5664	63
64	3128.7	3117.6	0.0013	0.0045	741.0	221.659	316.5	65.2	381.8	1.3697	1.5633	64
65	3194.6	3184.0	0.0014	0.0043	726.2	231.271	319.5	61.5	380.9	1.3781	1.5599	65

Lampiran 1 Tabel 1 *Properties* Udara Pada Tekanan 1 atm

Temp. $T, ^\circ\text{C}$	Density $\rho, \text{kg/m}^3$	Specific Heat $c_p, \text{J/kg}\cdot\text{K}$	Thermal Conductivity $k, \text{W/m}\cdot\text{K}$	Thermal Diffusivity $\alpha, \text{m}^2/\text{s}$	Dynamic Viscosity $\mu, \text{kg/m}\cdot\text{s}$	Kinematic Viscosity $\nu, \text{m}^2/\text{s}$	Prandtl Number Pr
-150	2.866	983	0.01171	4.158×10^{-6}	8.636×10^{-6}	3.013×10^{-6}	0.7246
-100	2.038	966	0.01582	8.036×10^{-6}	1.189×10^{-5}	5.837×10^{-6}	0.7263
-50	1.582	999	0.01979	1.252×10^{-5}	1.474×10^{-5}	9.319×10^{-6}	0.7440
-40	1.514	1002	0.02057	1.356×10^{-5}	1.527×10^{-5}	1.008×10^{-5}	0.7436
-30	1.451	1004	0.02134	1.465×10^{-5}	1.579×10^{-5}	1.087×10^{-5}	0.7425
-20	1.394	1005	0.02211	1.578×10^{-5}	1.630×10^{-5}	1.169×10^{-5}	0.7408
-10	1.341	1006	0.02288	1.696×10^{-5}	1.680×10^{-5}	1.252×10^{-5}	0.7387
0	1.292	1006	0.02364	1.818×10^{-5}	1.729×10^{-5}	1.338×10^{-5}	0.7362
5	1.269	1006	0.02401	1.880×10^{-5}	1.754×10^{-5}	1.382×10^{-5}	0.7350
10	1.246	1006	0.02439	1.944×10^{-5}	1.778×10^{-5}	1.426×10^{-5}	0.7336
15	1.225	1007	0.02476	2.009×10^{-5}	1.802×10^{-5}	1.470×10^{-5}	0.7323
20	1.204	1007	0.02514	2.074×10^{-5}	1.825×10^{-5}	1.516×10^{-5}	0.7309
25	1.184	1007	0.02551	2.141×10^{-5}	1.849×10^{-5}	1.562×10^{-5}	0.7296
30	1.164	1007	0.02588	2.208×10^{-5}	1.872×10^{-5}	1.608×10^{-5}	0.7282
35	1.145	1007	0.02625	2.277×10^{-5}	1.895×10^{-5}	1.655×10^{-5}	0.7268
40	1.127	1007	0.02662	2.346×10^{-5}	1.918×10^{-5}	1.702×10^{-5}	0.7255
45	1.109	1007	0.02699	2.416×10^{-5}	1.941×10^{-5}	1.750×10^{-5}	0.7241
50	1.092	1007	0.02735	2.487×10^{-5}	1.963×10^{-5}	1.798×10^{-5}	0.7228
60	1.059	1007	0.02808	2.632×10^{-5}	2.008×10^{-5}	1.896×10^{-5}	0.7202
70	1.028	1007	0.02881	2.780×10^{-5}	2.052×10^{-5}	1.995×10^{-5}	0.7177
80	0.9994	1008	0.02953	2.931×10^{-5}	2.096×10^{-5}	2.097×10^{-5}	0.7154
90	0.9718	1008	0.03024	3.086×10^{-5}	2.139×10^{-5}	2.201×10^{-5}	0.7132
100	0.9458	1009	0.03095	3.243×10^{-5}	2.181×10^{-5}	2.306×10^{-5}	0.7111
120	0.8977	1011	0.03235	3.565×10^{-5}	2.264×10^{-5}	2.522×10^{-5}	0.7073
140	0.8542	1013	0.03374	3.898×10^{-5}	2.345×10^{-5}	2.745×10^{-5}	0.7041