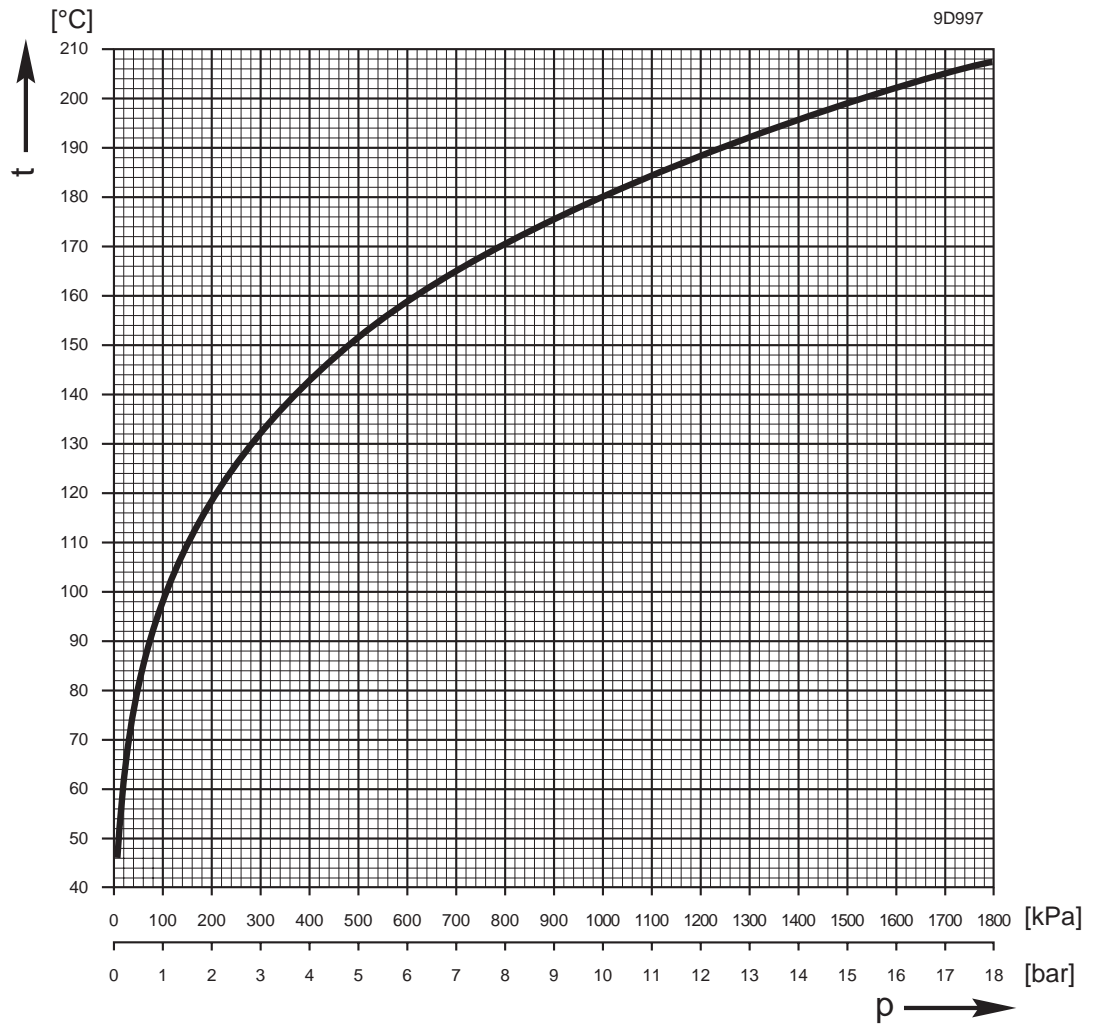


## Water vapour table state of saturation (pressure table)

pressure		tempera- ture	specific water volume	specific vapour volume	density of vapour	enthalpy of water	enthalpy of vapour	evaporation heat
p	p	t	v'	v''	ρ''	h'	h''	r
kPa	bar	°C	dm <sup>3</sup> /kg	m <sup>3</sup> /kg	kg/m <sup>3</sup>	kJ/kg	kJ/kg	kJ/kg
1	0.010	6.9808	1.0001	129.20	0.007739	29.34	2514.4	2485.0
2	0.020	17.513	1.0012	67.01	0.01492	73.46	2533.6	2460.2
3	0.030	24.100	1.0027	45.67	0.02190	101.00	2545.6	2444.6
4	0.040	28.983	1.0040	34.80	0.02873	121.41	2554.5	2433.1
5	0.050	32.898	1.0052	28.19	0.03547	137.77	2561.6	2423.8
6	0.060	36.183	1.0064	23.74	0.04212	151.50	2567.5	2416.0
7	0.070	39.025	1.0074	20.53	0.04871	163.38	2572.6	2409.2
8	0.080	41.534	1.0084	18.10	0.05523	173.86	2577.1	2403.2
9	0.090	43.787	1.0094	16.20	0.06171	183.28	2581.1	2397.9
10	0.10	45.833	1.0102	14.67	0.06814	191.83	2584.8	2392.9
20	0.20	60.086	1.0172	7.650	0.1307	251.45	2609.9	2358.4
30	0.30	69.124	1.0223	5.229	0.1912	289.30	2625.4	2336.1
40	0.40	75.886	1.0265	3.993	0.2504	317.65	2636.9	2319.2
50	0.50	81.345	1.0301	3.240	0.3086	340.56	2646.0	2305.4
60	0.60	85.954	1.0333	2.732	0.3661	359.93	2653.6	2293.6
70	0.70	89.959	1.0361	2.365	0.4229	376.77	2660.1	2283.3
80	0.80	93.512	1.0387	2.087	0.4792	391.72	2665.8	2274.0
90	0.90	96.713	1.0412	1.869	0.5350	405.21	2670.9	2265.6
100	1.0	99.632	1.0434	1.694	0.5904	417.51	2675.4	2257.9
150	1.5	111.37	1.0530	1.159	0.8628	467.13	2693.4	2226.2
200	2.0	120.23	1.0608	0.8854	1.129	504.70	2706.3	2201.6
250	2.5	127.43	1.0675	0.7184	1.392	535.34	2716.4	2181.0
300	3.0	133.54	1.0735	0.6056	1.651	561.43	2724.7	2163.2
350	3.5	138.87	1.0789	0.5240	1.908	584.27	2731.6	2147.4
400	4.0	143.62	1.0839	0.4622	2.163	604.67	2737.6	2133.0
450	4.5	147.92	1.0885	0.4138	2.417	623.16	2742.9	2119.7
500	5.0	151.84	1.0928	0.3747	2.669	640.12	2747.5	2107.4
600	6.0	158.84	1.1009	0.3155	3.170	670.42	2755.5	2085.0
700	7.0	164.96	1.1082	0.2727	3.667	697.06	2762.0	2064.9
800	8.0	170.41	1.1150	0.2403	4.162	720.94	2767.5	2046.5
900	9.0	175.36	1.1213	0.2148	4.655	742.64	2772.1	2029.5
1000	10.0	179.88	1.1274	0.1943	5.147	762.61	2776.2	2013.6
1100	11	184.07	1.1331	0.1774	5.637	781.13	2779.7	1998.5
1200	12	187.96	1.1386	0.1632	6.127	798.43	2782.7	1984.3
1300	13	191.61	1.1438	0.1511	6.617	814.70	2785.4	1970.7
1400	14	195.04	1.1489	0.1407	7.106	830.08	2787.8	1957.7
1500	15	198.29	1.1539	0.1317	7.596	844.67	2798.9	1945.2
1600	16	201.37	1.1586	0.1237	8.085	858.56	2791.7	1933.2
1700	17	204.31	1.1633	0.1166	8.575	871.84	2793.4	1921.5
1800	18	207.11	1.1678	0.1103	9.065	884.58	2794.8	1910.3
1900	19	209.80	1.1723	0.1047	9.555	896.81	2796.1	1899.3
2000	20	212.37	1.1766	0.09954	10.05	908.59	2797.2	1888.6
2500	25	223.94	1.1972	0.07991	12.51	961.96	2800.9	1839.0
3000	30	233.84	1.2163	0.06663	15.01	1008.4	2802.3	1793.9
4000	40	250.33	1.2521	0.04975	20.10	1087.4	2800.3	1712.9
5000	50	263.91	1.2858	0.03743	25.36	1154.5	2794.2	1639.7
6000	60	275.55	1.3187	0.03244	30.83	1213.7	2785.0	1571.3
7000	70	285.79	1.3513	0.02737	36.53	1267.4	2773.5	1506.0
8000	80	294.97	1.3842	0.02353	42.51	1317.1	2759.9	1442.8
9000	90	303.31	1.4179	0.02050	48.79	1363.7	2744.6	1380.9
10000	100	310.96	1.4526	0.01804	55.43	1408.0	2727.7	1319.7
11000	110	318.05	1.4887	0.01601	62.48	1450.6	2709.3	1258.7
12000	120	324.65	1.5268	0.01428	70.01	1491.8	2689.2	1197.4
13000	130	330.83	1.5672	0.01280	78.14	1532.0	2667.0	1135.0
14000	140	336.64	1.6106	0.01150	86.99	1571.6	2642.4	1070.7
15000	150	342.13	1.6579	0.01034	96.71	1611.0	2615.0	1004.0
20000	200	365.70	2.0370	0.005877	170.2	1826.5	2418.4	591.9
22000	220	373.69	2.6714	0.003728	268.3	2011.1	2195.6	184.5
22120	221.2	374.15	3.17	0.00317	315.5	2107.4	2107.4	0

# Pressure temperature diagram for saturated water vapour



## Conversion table

Unit	J	kcal	kPa	bar	atm	kp/m <sup>2</sup> = mmWG
1 J =	1	2.38844·10 <sup>-4</sup>	–	–	–	–
1 kcal =	4.1868·10 <sup>3</sup>	1	–	–	–	–
1 kPa =	–	–	1	0.01	0.986923·10 <sup>-2</sup>	1.01972·10 <sup>2</sup>
1 bar =	–	–	100	1	0.986923	1.01972·10 <sup>4</sup>
1 atm =	–	–	1.01325·10 <sup>2</sup>	1.01325	1	1.033227·10 <sup>4</sup>
1 kp/m <sup>2</sup> 1 mmWG =	–	–	9.80665·10 <sup>-3</sup>	9.80665·10 <sup>-5</sup>	0.967841·10 <sup>-4</sup>	1