



infinity
pipe systems

Air Treatment - Dew Point

DEW POINT °C	g/m ³	DEW POINT °C	g/m ³	DEW POINT °C	g/m ³	DEW POINT °C	g/m ³
+100	588.208	+58	118.199	16	13.531	-25	0.55
99	569.071	57	113.130	15	12.739	-26	0.51
98	550.375	56	108.200	14	11.987	-27	0.46
97	532.125	55	103.453	13	11.276	-28	0.41
96	514.401	54	98.883	12	10.600	-29	0.37
95	497.209	53	94.483	11	9.961	-30	0.33
94	480.394	52	90.247	10	9.356	-31	0.301
93	464.119	51	86.173	9	8.784	-32	0.271
92	448.308	50	82.257	8	8.243	-33	0.244
91	432.885	49	78.491	7	7.732	-34	0.220
90	417.935	48	74.871	6	7.246	-35	0.198
89	403.380	47	71.395	5	6.790	-36	0.178
88	389.225	46	68.056	4	6.359	-37	0.160
87	375.471	45	64.848	3	5.953	-38	0.144
86	362.124	44	61.772	2	5.570	-39	0.130
85	340.186	43	58.820	1	5.209	-40	0.117
84	336.660	42	55.989	0	4.868	-41	0.104
83	324.469	41	53.274			-42	0.0093
82	311.616	40	50.672	-1	4.487	-43	0.0830
81	301.186	39	48.181	-2	4.135	-44	0.0750
80	209.014	38	45.593	-3	3.889	-45	0.0670
79	279.278	37	43.508	-4	3.513	-46	0.0600
78	268.806	36	41.322	-5	3.238	-47	0.0540
77	258.827	35	39.286	-6	2.984	-48	0.0480
76	248.840	34	37.229	-7	2.571	-49	0.0430
75	239.351	33	35.317	-8	2.537	-50	0.0380
74	230.142	32	33.490	-9	2.339	-51	0.0340
73	221.212	31	31.744	-10	2.156	-52	0.0300
72	212.648	30	30.078	-11	1.96	-53	0.0270
71	204.286	29	24.488	-12	1.80	-54	0.0240
70	196.213	28	26.970	-13	1.65	-55	0.0210
69	188.429	27	25.524	-14	1.51	-56	0.0190
68	180.855	26	24.143	-15	1.38	-57	0.0170
67	173.575	25	22.830	-16	1.27	-58	0.0150
66	166.507	24	21.578	-17	1.15	-59	0.0130
65	159.654	23	20.386	-18	1.05	-60	0.0110
64	153.103	22	19.252	-19	0.96	-65	0.0064
63	146.771	21	18.191	-20	0.88	-70	0.0033
62	140.659	20	17.148	-21	0.80	-75	0.0013
61	134.684	19	16.172	-22	0.73	-80	0.0006
60	129.020	18	15.246	-23	0.66	-85	0.00025
59	123.495	17	14.367	-24	0.60	-90	0.00010

Example:

Air at +25 °C, saturated to 100% with water vapour (represents a dew point of +25 °C) contains 22.830g of water per m³ of air.

Required moisture carry-over 0.117g/m³ (represents a dew point of -40 °C).
Water retention by a dryer $\Delta X = 22.713\text{g/m}^3$.