

EFFECT OF TEMPERATURE ON REVERSE OSMOSIS

Industry standard is to measure the water production rate at 77°F (25°C). Membrane production will rise or fall 1.8% for each degree ^{above} or _{below} 77°F. To calculate actual membrane production output, find your water temperature from the chart below.

1. From an existing r/o system, multiply **factor** by the gpm from your product flow meter. This result will give you the actual gpm production at 77°F.
2. If you are working on a bid and need to determine the proper r/o system size for the application, use customer's desired gpm and multiply by factor. This result will give you the gpm and recommended r/o. system size.

°C	°F	FACTOR	°C	°F	FACTOR
1	33.8	3.64	26	78.8	0.97
2	35.6	3.23	27	80.6	0.94
3	37.4	3.03	28	82.4	0.91
4	39.2	2.78	29	84.2	0.88
5	41	2.58	30	86	0.85
6	42.8	2.38	31	87.8	0.83
7	44.6	2.22	32	89.6	0.80
8	46.4	2.11	33	91.4	0.77
9	48.2	2.00	34	93.2	0.75
10	50	1.89	35	95	0.73
11	51.8	1.78	36	96.8	0.71
12	53.6	1.68	37	98.4	0.69
13	55.4	1.61	38	100.4	0.67
14	57.2	1.54	39	102.2	0.65
15	59	1.47	40	104	0.63
16	60.8	1.39	41	105.8	0.61
17	62.6	1.34	42	107.6	0.60
18	64.4	1.29	43	109.4	0.58
19	66.2	1.24	44	111.2	0.56
20	68	1.19	45	113	0.54
21	69.8	1.15	46	114.8	0.53
22	71.6	1.11	47	116.6	0.51
23	73.4	1.08	48	118.4	0.49
24	75.2	1.04	49	120.2	0.47
25	77	1.00	50	122	0.46