

Reversed Osmose water filter

Flow system water in R.O. filter

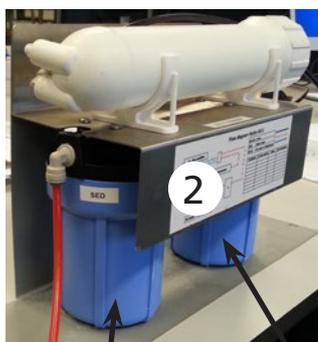


1. Water connection (G 3/4") from the water tap to the sediment filter. Red tube.
2. Water connection goes from sediment filter to Carbon filter.
3. Filtered water goes from Carbon filter to a shut off valve (in) and from this valve (out) to the R.O. membrane. Red tube.
4. outlet from shut off valve (out) to the R.O. membrane. Red tube.
5. Filtered Water comes out the R.O. membrane and goes to the shut off valve (tank). And from this valve (tank) to the humidification system. Blue tube 5a.
6. Drain water from membrane to drain. Black tube.
7. Check valve.
8. Shut off valve.

Note 1: Inside this black tube nr. 6 there is a flow restrictor built in to minimize the water flow to the drain. The restrictor is placed near the click connection.

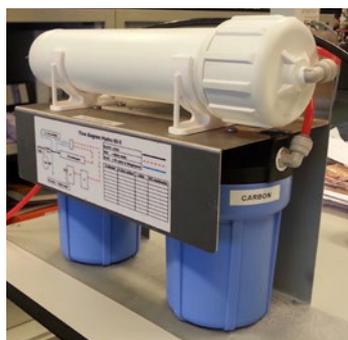
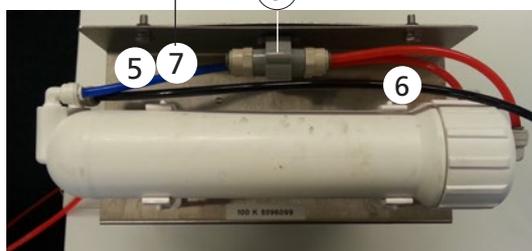
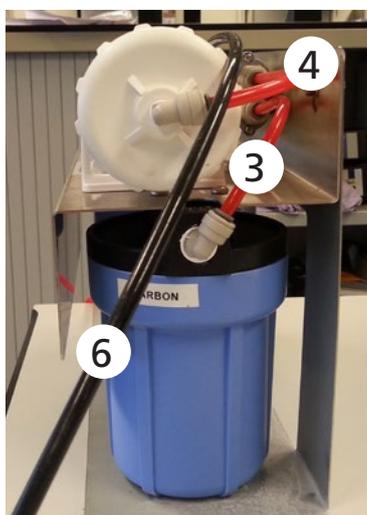
Note 2: Shut off valve closes water supply (red Tube nr. 3) when the counter pressure is too high.

Note 3: Check valve is a safety valve to protect the membrane.



30001559 Ass. R.O. filter system

Sediment filter Carbon filter



Maintenance of the R.O. water filter

Description of part	Every 12 months	Every 24 months	Every 36 months
water hardness test	X		
Sediment and Carbon filter	X		
Osmostic membrane filter	–	Replace when water hardness of filtered water is above 5dh	X

The Sediment and Carbon filters have to be replaced every year.
The lifespan of the Osmostic membrane filter is minimal 2 years.

dh	
1 - 4	Very soft
5 - 8	Soft
9 - 12	average
13 - 18	Hard
19 - 30	Very hard

Working conditions:

Maximum hardness drinking water 25dh
Water pressure 2-10 Bar
Ambient temperature 5 to 35°C
Humidity 20 to 100%

dh = German hardness
fh = French hardness
eh = English hardness

Conversion table

dh	fh	eH	milliequivalent/ millival	ppm CaCO ₃	mmol/l CaCO ₃
1	1,78	1,24	0,36	17,80	0,18
2	3,56	2,49	0,71	35,60	0,36
3	5,34	3,73	1,07	53,40	0,53
4	7,12	4,98	1,42	71,20	0,71
5	8,90	6,22	1,78	89,00	0,89
6	10,70	7,47	2,14	107,00	1,07
7	12,50	8,71	2,49	125,00	1,25
8	14,20	9,96	2,85	142,00	1,42
9	16,00	11,20	3,20	160,00	1,60
10	17,80	12,40	3,56	178,00	1,78
11	19,60	13,70	3,92	196,00	1,96
12	21,40	14,90	4,27	214,00	2,14
13	23,10	16,20	4,63	231,00	2,31
14	24,90	17,40	4,98	249,00	2,49
15	26,70	18,70	5,34	267,00	2,67
16	28,50	19,90	5,70	285,00	2,85
17	30,30	21,20	6,05	303,00	3,03
18	32,00	22,40	6,41	320,00	3,20
19	33,80	23,70	6,76	338,00	3,38
20	35,60	24,90	7,12	356,00	3,56
21	37,40	26,10	7,48	374,00	3,74
22	39,20	27,40	7,83	392,00	3,92
23	40,90	28,60	8,19	409,00	4,09
24	42,70	29,90	8,54	427,00	4,27
25	44,50	31,10	8,90	445,00	4,45
26	46,30	32,40	9,26	463,00	4,63