



hydrologic

... pure drinking water from air

P50CM+ Filter Lifetime Test
Filter Configuration (P50PP1, P50MC4, P50MF3, P50M-UF1, P50CC5)
Test No 1 (0 - 1,000 Liters Condensate Water)

Date	Time	PH 1 Liter Dispensing	TDS 1 Liter Dispensing	PH 5 Liters Dispensing	TDS 5 Liters Dispensing	Flow Rate ml Per Min	Total Dispensed Amount	Total Dispensed
17/01/2020	10:30	7.31	6	7.29	5	1,750	26	26
17/01/2020	18:00	7.32	22	7.22	16	1,750	26	52
18/01/2020	09:30	7.11	23	7.27	8	1,750	23	75
18/01/2020	18:30	6.91	13	7.21	10	1,750	28	103
19/01/2020	07:00	7.00	23	7.20	10	1,750	35	138
19/01/2020	14:00	6.71	31	6.81	16	1,750	44	182
20/01/2020	07:00	7.10	22	7.20	15	1,750	35	217
20/01/2020	14:00	6.61	40	6.75	22	1,750	44	261
21/01/2020	07:00	6.72	41	6.52	23	1,750	35	296
21/01/2020	14:00	6.58	40	6.82	20	1,750	44	340
22/01/2020	07:00	6.71	41	6.82	20	1,750	35	375
22/01/2020	14:00	6.65	43	6.97	23	1,750	44	419
23/01/2020	07:00	6.81	43	6.96	24	1,750	35	454
23/01/2020	14:00	6.87	33	7.05	22	1,750	44	498
24/01/2020	08:00	7.00	46	7.30	24	1,750	35	533
24/01/2020	16:00	6.81	44	6.98	24	1,750	44	577
25/01/2020	08:00	6.80	44	7.00	21	1,750	35	612
25/01/2020	18:30	6.91	40	7.21	24	1,750	44	656
26/01/2020	07:00	6.82	36	7.14	22	1,750	35	691
26/01/2020	14:00	6.95	30	7.62	22	1,750	44	735
27/01/2020	07:00	6.86	39	7.15	24	1,750	35	770
27/01/2020	16:00	6.93	35	7.35	21	1,750	44	814
29/01/2020	06:30	6.72	36	7.37	23	1,750	35	849
29/01/2020	13:30	6.88	36	7.27	28	1,750	44	893
30/01/2020	07:30	6.91	46	7.10	24	1,750	35	928
30/01/2020	15:30	6.99	35	7.35	26	1,750	44	972
31/01/2020	11:00	7.00	43	7.39	24	1,750	35	1007
Average 0 - 1,000 L		6.89	34	7.12	20	1,750		

SEE LABORATORY TEST REPORT: DA20-11591.001 RO & DA20-11545.001 RO

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P50CM+ Filter Lifetime Test
Filter Configuration (P50PP1, P50MC4, P50MF3, P50M-UF1, P50CC5)
Test No 2 (1,000 - 2,000 Liters Condensate Water)

Date	Time	PH 1 Liter Dispensing	TDS 1 Liter Dispensing	PH 5 Liters Dispensing	TDS 5 Liters Dispensing	Flow Rate ml Per Min	Total Dispensed Amount	Total Dispensed
02/02/2020	11:30	6.81	40	7.37	20	1,750	35	1042
02/02/2020	21:00	6.97	31	7.43	18	1,750	44	1086
03/02/2020	08:00	6.80	39	7.36	18	1,750	35	1121
04/02/2020	08:00	6.64	40	7,25	19	1,750	44	1165
04/02/2020	19:45	6.82	39	7.57	17	1,750	40	1205
05/02/2020	07:00	7.08	34	7.45	21	1,750	35	1240
05/02/2020	15:30	7.11	32	7.54	20	1,750	44	1284
06/02/2020	08:30	6.98	39	7.32	23	1,750	44	1328
06/02/2020	16:30	7.05	36	7.43	27	1,750	44	1372
07/02/2020	09:00	6.58	30	7.33	23	1,750	44	1416
07/02/2020	19:00	7.03	30	7.32	23	1,750	44	1460
08/02/2020	09:00	7.04	30	7.43	22	1,700	44	1504
08/02/2020	18:30	7.05	32	7.36	21	1,700	44	1548
09/02/2020	07:30	7.08	32	7.38	21	1,700	35	1583
09/02/2020	15:30	7.10	27	7.44	20	1,700	44	1627
11/02/2020	08:00	7.04	47	7.28	24	1,700	35	1662
11/02/2020	17:30	7.01	35	7.38	20	1,700	44	1706
12/02/2020	07:00	6.99	30	7.42	23	1,700	35	1741
12/02/2020	14:30	7.09	28	7.45	17	1,700	44	1785
13/02/2020	06:30	6.64	26	7.21	21	1,700	35	1820
13/02/2020	19:00	7.10	28	7.54	19	1,700	44	1864
14/02/2020	09:00	7.03	25	7.43	18	1,700	35	1899
14/02/2020	17:30	7.06	26	7.45	17	1,700	44	1943
15/02/2020	09:30	7.05	27	7.44	19	1,700	35	1978
15/02/2020	17:00	7.10	27	7.51	21	1,700	44	2022
Average 1,000 - 2,000 L		6.97	32	7.41	20	1,722		
Average 0 - 2,000 L		6.93	33	7.26	20	1,737		

SEE LABORATORY TEST REPORT: DA20-11805.001 RO & DA20-11822.001 RO



P50CM+ Filter Lifetime Test
Filter Configuration (P50PP1, P50MC4, P50MF3, P50M-UF1, P50CC5)
Test No 3 (2,000 - 3,000 Liters Condensate Water)

Date	Time	PH 1 Liter Dispensing	TDS 1 Liter Dispensing	PH 5 Liters Dispensing	TDS 5 Liters Dispensing	Flow Rate ml Per Min	Total Dispensed Amount	Total Dispensed
16/02/2020	07:00	7.06	28	7.51	22	1,700	22	2044
16/02/2020	16:30	7.05	29	7.49	22	1,700	40	2084
17/02/2020	08:00	6.98	31	7.52	21	1,700	25	2109
17/02/2020	15:30	7.06	26	7.58	23	1,700	40	2149
18/02/2020	07:30	7.10	31	7.40	18	1,700	35	2184
18/02/2020	16:30	7.15	28	7.39	22	1,700	44	2228
19/02/2020	08:30	7.13	27	7.41	22	1,650	35	2263
19/02/2020	15:30	7.09	27	7.38	17	1,650	44	2307
20/02/2020	07:00	7.12	28	7.41	20	1,650	35	2342
20/02/2020	14:30	7.30	38	7.54	29	1,650	44	2386
21/02/2020	09:00	7.12	34	7.40	23	1,650	35	2421
21/02/2020	17:30	7.14	28	7.51	21	1,650	44	2465
22/02/2020	08:00	7.06	28	7.44	20	1,650	35	2500
22/02/2020	15:30	7.05	29	7.47	23	1,650	44	2544
23/02/2020	07:30	7.04	27	7.52	21	1,600	35	2579
23/02/2020	15:30	7.05	30	7.47	26	1,600	44	2623
24/02/2020	07:30	7.09	30	7.43	21	1,600	35	2658
24/02/2020	15:00	7.10	32	7.45	22	1,600	44	2702
25/02/2020	07:00	7.13	30	7.55	20	1,600	35	2737
25/02/2020	14:00	7.08	30	7.46	22	1,600	44	2781
26/02/2020	07:30	7.10	29	7.41	21	1,550	35	2816
26/02/2020	15:00	7.11	29	7.50	23	1,550	44	2860
27/02/2020	07:00	7.09	27	7.48	19	1,550	35	2895
27/02/2020	14:00	7.09	28	7.49	20	1,500	44	2939
28/02/2020	09:00	7.09	28	7.55	18	1,500	35	2974
28/02/2020	18:30	7.06	26	7.58	15	1,500	35	3009
Average 2,000 - 3,000 L		7.09	29	7.47	21	1,621		
Average 0 - 3,000 L		6.98	32	7.33	21	1,699		

SEE LABORATORY TEST REPORT: DA20-11994.001 RO

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P50CM+ Filter Lifetime Test
Filter Configuration (P50PP1, P50MC4, P50MF3, P50M-UF1, P50CC5)
Test No 4 (3,000 - 4,000 Liters Condensate Water)

Date	Time	PH 1 Liter Dispensing	TDS 1 Liter Dispensing	PH 5 Liters Dispensing	TDS 5 Liters Dispensing	Flow Rate ml Per Min	Total Dispensed Amount	Total Dispensed
01/03/2020	07:30	7.10	28	7.51	22	1,500	30	3039
01/03/2020	15:00	7.12	26	7.56	17	1,500	40	3079
02/03/2020	09:30	7.09	32	7.47	24	1,500	35	3114
02/03/2020	17:00	7.13	30	7.52	20	1,450	44	3158
03/03/2020	07:00	7.08	30	7.49	20	1,450	24	3182
03/03/2020	14:00	7.12	30	7.53	19	1,450	44	3226
04/03/2020	07:30	7.18	24	7.58	20	1,450	35	3261
04/03/2020	15:00	7.06	29	7.43	19	1,400	44	3305
05/03/2020	07:00	6.98	26	7.35	15	1,400	35	3340
05/03/2020	15:00	7.02	28	7.42	18	1,400	44	3384
06/03/2020	08:30	6.94	26	7.41	19	1,400	35	3419
06/03/2020	17:00	7.01	23	7.46	17	1,400	44	3463
07/03/2020	08:00	7.07	20	7.51	15	1,400	35	3498
07/03/2020	15:30	7.12	23	7.56	18	1,300	44	3542
08/03/2020	07:00	6.98	26	7.47	16	1,300	35	3577
08/03/2020	15:00	7.06	22	7.46	16	1,300	44	3621
09/03/2020	07:00	7.00	22	7.41	16	1,300	35	3656
09/03/2020	14:30	7.03	21	7.47	15	1,300	44	3700
10/03/2020	07:00	7.03	22	7.45	18	1,300	35	3735
10/03/2020	15:00	7.07	28	7.51	22	1,300	44	3779
11/03/2020	07:00	7.12	23	7.49	18	1,250	35	3814
11/03/2020	14:30	7.09	20	7.45	15	1,250	44	3858
13/03/2020	09:00	6.97	28	7.43	15	1,250	35	3893
13/03/2020	16:00	7.07	23	7.41	15	1,250	44	3937
14/03/2020	08:00	7.05	22	7.42	15	1,250	35	3972
14/03/2020	15:30	7.02	24	7.37	15	1,250	44	4016
Average 3,000 - 4,000 L		7.06	25	7.47	18	1,358		
Average 0 - 4,000 L		7.00	30	7.36	20	1,617		

SEE LABORATORY TEST REPORT: DA20-12208.001RO

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Laboratory Test Result Comparison

Description	@1000L	@2000L	@3000L	@4000L	Standard Limits
Ph	7.45	7.68	7.41	7.53	6.6 - 8.5
Conductivity	72.4	69.22	42.4	53.7	No Guideline
Chloride	< 10	< 10	< 10	< 10	No Guideline
Sulphate	< 5	< 5	< 5	Not Detected	No Guideline
Flouride	Not Detected	< 0.5	< 0.5	< 0.5	< 1.5
Copper	Not Detected	< 0.10	Not Detected	Not Detected	< 2.00
Chromium	Not Detected	< 0.003	Not Detected	Not Detected	< 0.05
Manganese	Not Detected	< 0.10	Not Detected	Not Detected	< 0.40
Lead	Not Detected	< 0.003	Not Detected	Not Detected	< 0.01
Magnesium	Not Detected	< 0.10	<0.10	Not Detected	No Guideline
Calcium	1.92	2.33	Not Detected	1.22	No Guideline
Sodium	< 0.25	< 0.25	< 0.25	Not Detected	No Guideline
Potasium	< 0.25	< 0.25	< 0.25	Not Detected	No Guideline
Iron	Not Detected	< 0.25	< 0.25	Not Detected	No Guideline
Total Alkalinky	43.36	34.72	26.04	35.28	No Guideline
Total Suspended Solids	< 5	< 5	< 5	< 5	No Guideline
Total Coliforms	Not Detected	Not Detected	Not Detected	Not Detected	0
Psuedomonas aeruginosa	Not Detected	Not Detected	Not Detected	Not Detected	0
Eshcerichia Coli	Not Detected	Not Detected	Not Detected	Not Detected	0
Standard Plate Count	86	Not Detected	50	30	< 500