Performance data sheet

Performance data sheet

Important Notice: Read this data sheet and compare the capabilities to your actual water treatment needs before purchasing.

Seller: Peppy Taps Pty Ltd

Product:Water Filter Systems

Model: Filter

Substance Reduction

The Water Filter models listed above have been tested under AS/NZ5 3497 and relevant NSF/ANSi Standards 53 2017 7.4.3.1 low ph and 2018 7.4.3.1 High ph lead reduction for reduction of lead. The performance of this product has been verified and substantiated as the test data summarised below indicates. Theses substances may not be in your

1. Scope of Evaluation:Qualification of the sample for lead reduction at PH6.5 as a point of use system

1.1.Conclusion: The sample descrbed in the" product description" were evaluated according to NSF/ANSI 53 2017 7.4.3.1 low ph lead reduction.

Requirements for Compliance: The system shall reduce the concentration of the substance from the influent challenge so that all effluent levels are below 0.010mg/L (10 ppb).

Table One: Specifications of testing

Number of Units	Two
Cycle	50/50
Rated Capacity	200 gallons, no performance indication device Tested to 200% of capacity
Conditioning	The units were flushed for 15 minutes
Flowrate	the flow was manually maintained at 0.50 gpm
Sampling	Standard requires sampling at 10 unit volume, 50%, 100%, 150%, 180% and 200% of capacity
Deviations from stadard	NONE

Influent water was prepared per the specifications in NSF/ANSI 53 Section 7.4.3.5.1 Those specifications are shown below.

Table Two: Water Characteristics

pH	6.5 +/- 0.25
Temperature	20 +/- 2.5 degrees C
Total dissolved solids (TDS)	<100 mg/L
Turbidity	< 1 NTU
Hardness	10-30 mg/L
Alkalinity	10-30mg/L
Polyphosphate (as P)	<0.5mg/L

Findings:

Table Three: Influent and effluent lead results

Samples Required by Standard	Influent (ppb)	Effluent #1 (ppb)	Effluent #2 (ppb)	Flowrate E1 (gpm)	Fowrate E2 (gpm)
10 UV	151	0.385	0.431	0.50	0.50
180*	160	0.615	0.471	0.50	0.50
200	148	0.973	1.076	0.50	0.50
300	124	1.003	1.384	0.50	0.50
360	172	2.174	3.890	0.52	0.52
400	141	3.527	4.104	0.52	0.52

Note: Reporting limit is 0.13 ppb

*180 gallon sample was taken to replace the 100 gallon sample point

Table Four: Average influent, effluent and percent reduction

	Results	Standard Requirements
Ave Influent (Inf) (ppb)	149.33	150+/-15
Ave Effluent (Eff) E1 (ppb)	1.45	Maximum 10
Ave Effluent (Eff) E2 (ppb)	1.89	Maximum 10
Maximum Effluent (ppb)	4.10	Maximum 10
Ave % Reduction E1	99.02	
Ave % Reduction E2	98.73	
Average % Reduction E1 and E2	98.88	
Minimum % Reduction	97.09	

2. Scope of Evaluation:Qualification of the sample for lead reduction at PH8.5 as a point of use system

2.1.Conclusion: The sample descrbed in the" product description" were evaluated according to NSF/ANSI 53 2018 7.4.3.1 High ph lead reduction.

Requirements for Compliance:

Lead 8.5 The system shall reduce the concentration of the substance from the influent challenge so tha all effluent levels are below 0.010mg/L (10ppb).

Table One: Specifications of testing

Number of Units	Two
Cycle	50/50
Rated Capacity	200 gallons, no PID tested to 2 times capacity
Conditioning	Units were flushed for 5 minutes
Flowrate	0.5 gpm
Sampling	Standard requires sampling at 10 unit volume, 50%, 100%, 150%,180% and 200 % of capacity
Prefilter	A three micron prefilter was used for this testing
Deviations from Standard	Flowrate slowed throughout testing, the 400 gallon sample for E1 and E2 were taken on different days

Influent water was prepared per the specifications in NSF/ANSI 53 Section 7.4.3.5.2.3 Those specifications are shown below.

Table Two: Influent Water Characteristics

pH	8.3-8.6
Temperature	20 +/- 2.5 degrees C
Total Chlorine	0.5+/-0.25 mg/L
Hardness	90-110 mg/L
Alkalinity	90-110mg/L
Total Lead	120-180 ppb
Percent Particulate Lead	10-50%
Percent Fine Particulate Lead	≥ 20%

Findings:

Table Three: Influent and Effluent Lead Levels and Flowrates

Samples Required by Standard	Influent Total Lead (ppb)	% particulate	% fine particulate	Effluent Sample #1 ppb	Effluent Sample #2 ppb	Flowrate E1 (gpm)	Flowrate E2 (gpm)
10 UV	138	26.1	25	0.559	2.32	0.52	0.5
100	156	23.7	32.4	0.156	3.14	0.32	0.44
200	142	24.6	37.1	0.118	4.88	0.26	0.3
300	129	22.5	27.6	5.28	5.28	0.24	0.28
360	129	22.5	27.6	0.134	5.56	0.24	0.26
400	129	22.5	27.6	-	5.43	x	0.26
400	151	42.4	28.1	0.137	-	0.24	x

Note: Reporting limit is 0.13ug/L

Table Four: Average Influent, Effluent and percent reduction

	Results	Standard Requirements
Average Total Influent E1(ppb)	137	150+/-15
Average Total Influent E2(ppb)	141	150+/-15
Average Percent Particulate E1 (%)	27.0	Between 20-40
Average Percent Particulate E2 (%)	23.6	Between 20-40
Average Percent Fine Particulate E1(%)	29.6	>20
Average Percent Fine Particulate E2 (%)	29.6	>20
Average Effluent (Eff) E1 (ppb)	1.06	Maximum 10
Average Effluent (Eff) E2 (ppb)	4.44	Maximum 10
Maximum Effluent (ppb)	5.56	Maximum 10
Average % Reduction E1 (%)	99.0	
Average % Reduction E2 (%)	96.7	
Average % Reduction E1 and E2 (%)	97.9	
Minimum % Reduction (%)	95.7	

Refer to our Owner's Guide for more specific product and warranty information and to avoid contamination from improper handling and installation. Performance will vary based on local water condition. The substances reduce by the product are not necessarily in your water.

Guideline For Use

Trough pressure: 86kPa

Peak pressure: 860 kPa

Normal flow rates:2L/m

Temperature:20±℃

This system has to be installed according to local plumbing codes on the cold-water line.

This system requires regular replacement of the filter cartridge to maintain proper operation. Varying chlorine, sediment, or organic substance levels may affect replacement frequency.

Be sure to change the filter cartridge at least every 6000l or 6months, which every occurs first. Or whenever you detect a change in taste or odour or a decrease in flow. 6,000l is approximately equal to 33l per day for a half of year. Filter models are equipped with monitor which assists with determining when the cartridge has to be changed.

CAUTION: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. This is system may be used on disinfected water that may contain filterable cysts.