

## **TEST REPORT**

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**Report Number:** 3956-25002 **Project No.:** 45444

Report Issued: March 27, 2025

**Report To:** Foshan Tianhaixin Supply Chain Management Co,.Ltd.

c/o ASSE International

41 Watton Street

Werribee, Australia 3030

Source of Samples: The units were shipped to IAPMO R&T Lab from Foshan Tianhaixin and were

received in good condition on February 13th, 2025.

Location of Testing: IAPMO R&T Lab, 5001 East Philadelphia Street, Ontario CA 91761

**Dates of Evaluation:** March 11<sup>th</sup> to March 19<sup>th</sup> 2025

**Product Description:** Water Filter (H2O) – Plumbed-in

Primary Standard: NSF/ANSI 42-2022 – 7.3.3

Scope of Evaluation: Samples were evaluated for Free Available Chlorine Reduction to NSF/ANSI 42 -

2022 - 7.3.3

**Conclusion:** The samples described in the "Product Description" were evaluated according

to the reference standard and were found IN COMPLIANCE.

Report Status: IN COMPLIANCE.

Cris Schiff

Tested By, Reviewed By,

Craig Schaeffer – Product Analyst Jaime

Jaime Young – Director, Water Filtration

Jaime H. Young

This report replaces 3956-25001. Changes made correct a typographical error on page 1.

All testing and sample preparation for this report was performed under the continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated. The statement of compliance is based on the test results compared to the standard specifications without considering measurement uncertainty. The observations, test results and conclusions in this report apply only to the specific samples tested and are not indicative of the quality or performance of similar or identical products. Only the Client shown above is authorized to copy or distribute the report, and then only in its entirety. If presented with a copy of a Test Report without the IAPMO R&T Lab watermark background, contact IAPMO R&T Lab for verification. Any use of the IAPMO R&T Lab name for the sale or advertisement of the tested material, product or service is

## **Requirements for Compliance:**

Systems must reduce an average FAC challenge of 1.8-2.2 mg/L by a minimum of 50% at 90% of the sample points. The capacity determining sample must reduce the influent challenge by 50%.

Table 1- Specifications of testing

Number of Units	TWO			
Cycle	50/50			
Rated Capacity	3000 L (793 Gallons)			
Conditioning	Flush for 5min at 2 LPM (0.53 gpm)			
Prefilter	NA			
Flowrate	The flowrate was set to 2 LPM (0.53 gpm)			
Sampling	mpling Per Table 3 Below			
Testing Notes	esting Notes Per customers request bypassed RO membrane.			

Influent water was prepared per the specifications in NSF/ANSI 42 Section 7.3.3.6.1 Those specifications are shown below.

**Table 2**- Water Specification

Source Water	RO / DI		
рН	7.5 ± 0.5		
Temperature	20 ± 3 ° C		
Free Available Chlorine (FAC)	1.8-2.2 mg/L		
Total dissolved solids	200-500 mg/L		
Total organic carbon TOC	≥ 1.0 mg/L		
Turbidity	< 1 NTU		

Samples were set up according to manufacturer's instructions.

## **Findings:**

**Table 3** – FAC Concentrations

Sample Influent Flowrate Flowrate % %										
Sample Point (gallons)	Influent (mg/L)	E1 (mg/L)	E2 (mg/L)	Flowrate E1 (gpm)	Flowrate E2 (gpm)	Reduction E1	% Reduction E2			
10 UV	1.95	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.44%</td><td>97.44%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.44%</td><td>97.44%</td></rl<>	0.53	0.53	97.44%	97.44%			
79.3	1.97	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.46%</td><td>97.46%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.46%</td><td>97.46%</td></rl<>	0.53	0.53	97.46%	97.46%			
158.6	1.97	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.46%</td><td>97.46%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.46%</td><td>97.46%</td></rl<>	0.53	0.53	97.46%	97.46%			
237.9	2.01	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.51%</td><td>97.51%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.51%</td><td>97.51%</td></rl<>	0.53	0.53	97.51%	97.51%			
317.2	2.04	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.55%</td><td>97.55%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.55%</td><td>97.55%</td></rl<>	0.53	0.53	97.55%	97.55%			
396.5	1.96	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.45%</td><td>97.45%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.45%</td><td>97.45%</td></rl<>	0.53	0.53	97.45%	97.45%			
475.8	2.00	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.50%</td><td>97.50%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.50%</td><td>97.50%</td></rl<>	0.53	0.53	97.50%	97.50%			
555.1	2.00	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.50%</td><td>97.50%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.50%</td><td>97.50%</td></rl<>	0.53	0.53	97.50%	97.50%			
634.4	2.01	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.51%</td><td>97.51%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.51%</td><td>97.51%</td></rl<>	0.53	0.53	97.51%	97.51%			
713.7	1.91	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.38%</td><td>97.38%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.38%</td><td>97.38%</td></rl<>	0.53	0.53	97.38%	97.38%			
793	1.91	<rl< td=""><td><rl< td=""><td>0.53</td><td>0.53</td><td>97.38%</td><td>97.38%</td></rl<></td></rl<>	<rl< td=""><td>0.53</td><td>0.53</td><td>97.38%</td><td>97.38%</td></rl<>	0.53	0.53	97.38%	97.38%			
AVERAGE	1.98	<rl< td=""><td><rl< td=""><td></td><td></td><td>97.47%</td><td>97.47%</td></rl<></td></rl<>	<rl< td=""><td></td><td></td><td>97.47%</td><td>97.47%</td></rl<>			97.47%	97.47%			

RL (REPORTING LIMIT=0.05 mg/L for Chlorine) Any bolded effluents are higher than the max allowable effluent outlined by the standard

Figure 1- Picture of Units Tested

