5001 East Philadelphia Street
Ontario, California – USA 91761-2816
Ph: 909.472.4100 | Fax: 909.472.4243
http://www.iapmortl.org

TEST REPORT

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 11th to March 19th 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.**

Tested By,

Craig Schaeffer – Product Analyst

Reviewed By,

Jaime A. Young

Jaime Young – Director, Water Filtration

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

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	Per Table 3 Below
Testing 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
pH	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 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	<RL	0.53	0.53	97.44%	97.44%
79.3	1.97	<RL	<RL	0.53	0.53	97.46%	97.46%
158.6	1.97	<RL	<RL	0.53	0.53	97.46%	97.46%
237.9	2.01	<RL	<RL	0.53	0.53	97.51%	97.51%
317.2	2.04	<RL	<RL	0.53	0.53	97.55%	97.55%
396.5	1.96	<RL	<RL	0.53	0.53	97.45%	97.45%
475.8	2.00	<RL	<RL	0.53	0.53	97.50%	97.50%
555.1	2.00	<RL	<RL	0.53	0.53	97.50%	97.50%
634.4	2.01	<RL	<RL	0.53	0.53	97.51%	97.51%
713.7	1.91	<RL	<RL	0.53	0.53	97.38%	97.38%
793	1.91	<RL	<RL	0.53	0.53	97.38%	97.38%
AVERAGE	1.98	<RL	<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