 IAPMO INDIA PRIVATE LIMITED	Document No.	IAPMO/ILAB/TR/02
	Test Report No.	IAPMO/ILAB/3397-25002-E1/24-25
	Date	08/09/2025
	Revision No.	01
	Reference	NSF/ANSI 401-2023
TEST REPORT		

CUSTOMER DETAILS	SAMPLE DETAILS	TEST DETAILS
Name & Address: Mr. Abdul Azim RFT C/O KAJAH MARKETING COMPANY Pallapatty village, Maduri Trichy highway, Kottampatti, Madurai District- 625103, Tamilnadu	Submitted By: RFT C/O KAJAH MARKETING COMPANY	Protocol: NSF/ANSI 401-2023
	Sample Code No.: IAPMO/ILAB/3397-25002-E1 /24-25	
	Sample Description: Purita System	
	Sample Received Date: 01.08.2025	
	Date Of Analysis Started:28.08.2025	
	Date Of Analysis Completed:08.09.2025	
	Sample Quantity for Testing: 1 No's.	
	Sample Condition When Received: Intact	

EXECUTIVE SUMMARY:

RFT C/O KAJAH MARKETING COMPANY submitted their Purita System for evaluation of Microplastics Samples shall be tested in accordance with NSF/ANSI 42, section 7.4.1 nominal particulate reduction (85%) performance testing. Claims of nominal particulate reduction (85%) shall be made using the classes specified in Table 7.8. To receive a specific class rating, the system shall reduce the number of particles in the tested particle size range by at least 85% when tested in accordance with section 7.4. The system's rating shall be consistent with the smallest particle size effectively removed as determined by the test. A claim for a greater percentage reduction, if made, shall be substantiated by testing.

CONCLUSION:

The tested carbon filter samples were evaluated according to the NSF/ANSI 401-2023 standard. The Samples were found to be in COMPLIANCE with the standard requirements.

AIM OF THE EXPERIMENT: Samples were evaluated for Microplastics reduction claim for filters according to NSF/ANSI 401 section 7.3.1

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Table 1- Specifications of testing

Number of Units	1
Cycle	50/50 3 minutes on, 3 minutes off
Conditioning	Each filter flushed for 10 minutes
Prefilter	NA
Flowrate	Samples flowed 0.60 gpm with 60 psig of influent pressure.
Sampling	Per Table 3 Below
Testing Notes	After conditioning, a short free chlorine reduction test was performed. Five 20-minute cycles were completed. The chlorine reduction data collected is included in table 5 below.

Influent water was prepared per the specifications in NSF/ANSI 42 Section 7.4.6 Those specifications are shown below.

Table 2- Water Specification

Parameter Specifications	pH	Temperature	TDS	Hardness	Turbidity	Influent Pressure
Gallonge	7.0-8.0	17-23 °C	200-500 mg/L	≤ 170 mg/L	<1 NTU	57-63 psig
2-UV	7.9	22	217	154	0.2	60
Cycle 4	7.9	22	217	154	0.2	60
50% flow	7.9	22	217	154	0.2	60
Average	7.9	22	217	154	0.2	60

Samples were set up according to manufacturer's instructions. Test dust in compliance with ISO 12103-1 A2 was used, this dust has a nominal particle size range of 0-80 µm. The analysis focused on the size range of 0.5-1 µm.

FINDINGS:

Table 3- Average Influent and Effluent Particle Counts

Sample point	INF(Particles/mL)	E1 (Particles/mL)	% reduction E1
2-UV	199,433	7,387	96.30%
Cycle 4	216,400	11,707	94.59%
50% flow	291,233	16,160	94.45%

Note: Any **bolded** effluent values are above the allowed limit set by the reference standard. Reporting limit for particulate count is 42 particles/mL.

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Table 4 - Average particle sizes

Sample Point	Influent mean particle size (µm)	E1 mean particle size (µm)
2-UV	0.709	0.631
Cycle 4	0.707	0.691
50% flow	0.708	0.646

Table 5 - Free Available Chlorine reduction

Influent Passed Through Filter (L)	Influent FAC (mg/L)	E1 FAC (mg/L)
Cycle 1	1.97	<RL
Cycle 5	1.87	<RL

Note: Reporting Limit for chlorine is 0.05 mg/L

PICTURE OF THE PRODUCT



Reviewed & Issued By



Mukthesh Pathi
Vice President - Laboratory

---END OF THE TEST REPORT ---

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