

QFT LABORATORY, LLC. Test Report

1041 Glassboro Road Suite D-1, Williamstown NJ 08094
PHONE 954-303-1819 www.enviroteklab.com
IAPMO ID# 000102

Send To:

Tracy

Doulton Water Filters

Result: Completed

Date: 07/29/2022

Customer Name: Doulton Water Filters

Tested To: Standard PFAS Reduction PT 200%

Trade Designation/Model Number: OBE Ultracarb Cartridge Block 1

Test Type: Qualification

Project Manager: Jaime Young

Thank you for having your product tested by QFT Laboratory, LLC.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization

Jaime A. Young

Jaime A. Young
Lab Director

Date: 07/29/2022

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Standard 53 PFAS Reduction PT 200%: Completed

Manufacturer's Name: Doulton Water Filters

Sample Type: Qualification

Product: Plumbed in without reservoir

Flow Rate: 1.5 gpm

Filter Capacity: 2000 Liters

Cycle: 50/50

Conditioning Procedure: Flushing for 6 minutes (9 gallons)

Physical Description of Sample: Inline Filter

Performance Indicator Device: No, Test up to 200% capacity (4000 Liters)

Test Description: NSF 53 PFAS Reduction Testing

Trade Designation/Model Number: OBE Ultracarb Cartridge Block 1

Unit Volume: 100 mL

Performance Standard: NSF 53 – 2021

Pass/Fail Criteria (PFOA+PFOS Combined Maximum Product Water Concentration): 0.07 µg/L

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Water Characteristics

Accumulated Volume	Temp. 17.5-22.5C	pH (7.00 to 8.00)	Alkalinity (160-240)	Turbidity (< 1 NTU)	TOC (>1 mg/L)	TDS (200-500)
Start	20.5	7.55	200	0.45	1.3	310
100	20.5	7.55	200	0.45	1.3	315
200	20.5	7.55	200	0.45	1.3	313
300	20.7	7.55	200	0.45	1.3	317
400	20.7	7.55	200	0.45	1.3	317
500	20.7	7.55	200	0.45	1.4	317
600	20.7	7.52	198	0.43	1.4	319
700	20.5	7.52	198	0.43	1.4	319
800	20.5	7.52	198	0.43	1.4	319
900	20.5	7.52	198	0.43	1.4	319
1000	20.5	7.52	198	0.43	1.4	317
1100	20.5	7.52	198	0.45	1.3	317
1200	20.3	7.55	200	0.45	1.3	317
1300	20.3	7.35	200	0.45	1.3	317
1400	20.3	7.55	200	0.45	1.3	317
1500	20.3	7.54	200	0.45	1.3	315
1600	20.3	7.54	200	0.45	1.3	315
1700	20.5	7.54	200	0.45	1.4	315
1800	20.5	7.55	198	0.45	1.4	315
1900	20.5	7.55	198	0.45	1.4	315
2000	20.5	7.55	198	0.45	1.4	315
2400	20.2	7.51	201	0.46	1.3	315
2800	20.5	7.55	198	0.45	1.4	315
3200	20.5	7.55	198	0.45	1.4	315
3600	20.5	7.55	198	0.45	1.4	315
4000	20.4	7.54	198	0.46	1.3	317
Average	20.5	7.53	200	0.45	1.4	316

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PFOA Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFOA (µg/L)	Effluent 1 PFOA Concentration (µg/L)
Start	10 UV	0.54	0.02
5%	100 Liters	0.49	0.01
10%	200 Liters	0.59	0.02
15%	300 Liters	0.58	0.02
20%	400 Liters	0.42	0.03
25%	500 Liters	0.54	0.03
30%	600 Liters	0.55	0.02
35%	700 Liters	0.55	0.03
40%	800 Liters	0.54	0.03
45%	900 Liters	0.51	0.02
50%	1000 Liters	0.50	0.03
55%	1100 Liters	0.55	0.03
60%	1200 Liters	0.50	0.02
65%	1300 Liters	0.57	0.02
70%	1400 Liters	0.51	0.02
75%	1500 Liters	0.54	0.02
80%	1600 Liters	0.49	0.02
85%	1700 Liters	0.53	0.02
90%	1800 Liters	0.51	0.02
95%	1900 Liters	0.53	0.03
100%	2000 Liters	0.50	0.02
120%	2400 Liters	0.54	0.03
140%	2800 Liters	0.52	0.02
160%	3200 Liters	0.52	0.03
180%	3600 Liters	0.45	0.04
200%	4000 Liters	0.47	0.05

PFOA Reporting Limit: 0.01 µg/L

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PFOS Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFOS (µg/L)	Effluent 1 PFOS Concentration (µg/L)
Start	10 UV	0.91	<0.01
5%	100 Liters	1.01	<0.01
10%	200 Liters	1.00	<0.01
15%	300 Liters	1.06	0.01
20%	400 Liters	0.98	0.01
25%	500 Liters	0.98	0.01
30%	600 Liters	1.07	0.01
35%	700 Liters	1.21	0.01
40%	800 Liters	1.19	0.01
45%	900 Liters	1.09	0.01
50%	1000 Liters	1.19	0.01
55%	1100 Liters	1.22	0.01
60%	1200 Liters	0.93	<0.01
65%	1300 Liters	1.15	<0.01
70%	1400 Liters	1.00	0.01
75%	1500 Liters	1.13	0.02
80%	1600 Liters	0.99	0.02
85%	1700 Liters	1.20	0.01
90%	1800 Liters	0.98	0.01
95%	1900 Liters	1.10	0.01
100%	2000 Liters	1.07	0.01
120%	2400 Liters	0.95	0.01
140%	2800 Liters	0.97	0.02
160%	3200 Liters	0.98	0.01
180%	3600 Liters	0.99	0.01
200%	4000 Liters	1.03	0.02

PFOS Reporting Limit: 0.01 µg/L

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PFOA & PFOS Data Summary Filter 1

Sample Point	Accumulated Volume Effluent 1	Influent 1 Total PFOA + PFOS Concentration (µg/L)	Affluent 1 Total PFOA + PFOS Concentration (µg/L)	Passing Criteria
Start	10 UV	1.45	0.02	Passed
5%	100 Liters	1.50	0.01	Passed
10%	200 Liters	1.59	0.02	Passed
15%	300 Liters	1.64	0.03	Passed
20%	400 Liters	1.40	0.04	Passed
25%	500 Liters	1.52	0.04	Passed
30%	600 Liters	1.62	0.03	Passed
35%	700 Liters	1.76	0.04	Passed
40%	800 Liters	1.73	0.04	Passed
45%	900 Liters	1.60	0.03	Passed
50%	1000 Liters	1.69	0.04	Passed
55%	1100 Liters	1.77	0.04	Passed
60%	1200 Liters	1.43	0.02	Passed
65%	1300 Liters	1.76	0.02	Passed
70%	1400 Liters	1.51	0.03	Passed
75%	1500 Liters	1.67	0.04	Passed
80%	1600 Liters	1.48	0.04	Passed
85%	1700 Liters	1.73	0.03	Passed
90%	1800 Liters	1.49	0.03	Passed
95%	1900 Liters	1.53	0.04	Passed
100%	2000 Liters	1.57	0.03	Passed
120%	2400 Liters	1.49	0.04	Passed
140%	2800 Liters	1.49	0.04	Passed
160%	3200 Liters	1.50	0.04	Passed
180%	3600 Liters	1.44	0.05	Passed
200%	4000 Liters	1.50	0.07	Passed

Disclaimer: The test results are only related to the filter cartridges tested, in the condition received at the laboratory.

Jaime A. Young

Jaime A. Young
Lab Director