



QFT LABORATORY, LLC.

1041 Glassboro Road Suite E-4, Williamstown NJ 08094

PHONE 856-533-0445 www.enviroteklab.com

EPA ID # NJ01298 IAPMO ID# 000102 NJDEP ID # 08021 ANAB Cert ID AT-2866



Send To:

Project Manager

KLT Filtration

Stuary Road, Kings Lynn

Norfolk, GB 43235

44 (0) 1553-622007

Customer Name: KLT Filtration

Tested To: NSF/ANSI Standard 53 PFOAS Reduction PT 100%

Description: Inline Filter #CF521W

Test Type: Research and Development

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: 08/26/2020



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NSF/ANSI Standard 53 PFOAS Reduction PT 200%: Passed

Product: Plumbed in without reservoir

Flow Rate: 2.5 Liters/min

Filter Capacity: 10,000 Liters

Cycle: 50/50

Conditioning Procedure: Flush for 5 minutes

Physical Description of Sample: Inline Filter

Performance Indicator Device: No, test to 100% Capacity

Test Description: NSF/ANSI Standard 53 PFOAS Reduction Testing

Trade Designation/Model Number: #CF521W

Unit Volume: 0.3 L

Performance Standard: NSF/ANSI Standard 53- 2019

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



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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)	% Reduction
10 UV	10 UV	0.45	<0.01	>97.78%
5%	500 Liters	0.45	<0.01	>97.78%
10%	1000 Liters	0.45	<0.01	>97.78%
15%	1500 Liters	0.45	<0.01	>97.78%
20%	2000 Liters	0.45	<0.01	>97.78%
25%	2500 Liters	0.45	<0.01	>97.78%
30%	3000 Liters	0.45	<0.01	>97.78%
35%	3500 Liters	0.45	<0.01	>97.78%
40%	4000 Liters	0.45	<0.01	>97.78%
45%	4500 Liters	0.45	<0.01	>97.78%
50%	5000 Liters	0.45	<0.01	>97.78%
55%	5500 Liters	0.45	<0.01	>97.78%
60%	6000 Liters	0.45	<0.01	>97.78%
65%	6500 Liters	0.47	<0.01	>97.87%
70%	7000 Liters	0.47	<0.01	>97.87%
75%	7500 Liters	0.47	<0.01	>97.87%
80%	8000 Liters	0.47	<0.01	>97.87%
85%	8500 Liters	0.47	0.02	95.74%
90%	9000 Liters	0.47	0.01	97.87%
95%	9500 Liters	0.47	<0.01	>97.87%
100%	10,000 Liters	0.47	0.04	91.49%

PFOA Reporting Limit: 0.01 µg/L

PFOS Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFOS (µg/L)	Effluent 1 PFOS Concentration (µg/L)	% Reduction
10 UV	10 UV	1.30	<0.01	>99.23%
5%	500 Liters	1.30	<0.01	>99.23%
10%	1000 Liters	1.30	<0.01	>99.23%
15%	1500 Liters	1.30	<0.01	>99.23%
20%	2000 Liters	1.30	<0.01	>99.23%
25%	2500 Liters	1.30	<0.01	>99.23%
30%	3000 Liters	1.30	<0.01	>99.23%
35%	3500 Liters	1.23	<0.01	>99.19%
40%	4000 Liters	1.23	<0.01	>99.19%
45%	4500 Liters	1.23	<0.01	>99.19%
50%	5000 Liters	1.23	<0.01	>99.19%
55%	5500 Liters	1.23	<0.01	>99.19%
60%	6000 Liters	1.23	<0.01	>99.19%
65%	6500 Liters	1.07	<0.01	>99.07%
70%	7000 Liters	1.07	0.04	96.26%
75%	7500 Liters	1.07	0.05	95.33%
80%	8000 Liters	1.07	0.03	97.20%
85%	8500 Liters	1.07	0.02	98.13%
90%	9000 Liters	1.07	0.03	97.20%
95%	9500 Liters	1.07	0.01	99.07%
100%	10,000 Liters	1.07	0.02	98.13%

PFOS Reporting Limit: 0.01 µg/L



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PFOA & PFOS Data Summary Filter 1

Sample Point	Accumulated Volume Effluent 1	Influent Total PFOA + PFOS Concentration (µg/L)	Effluent 1 Total PFOA + PFOS Concentration (µg/L)	Passing Criteria
10 UV	10 UV	1.75	<0.01	Pass
5%	500 Liters	1.75	<0.01	Pass
10%	1000 Liters	1.75	<0.01	Pass
15%	1500 Liters	1.75	<0.01	Pass
20%	2000 Liters	1.75	<0.01	Pass
25%	2500 Liters	1.75	<0.01	Pass
30%	3000 Liters	1.75	<0.01	Pass
35%	3500 Liters	1.68	<0.01	Pass
40%	4000 Liters	1.68	<0.01	Pass
45%	4500 Liters	1.68	<0.01	Pass
50%	5000 Liters	1.68	<0.01	Pass
55%	5500 Liters	1.68	<0.01	Pass
60%	6000 Liters	1.68	<0.01	Pass
65%	6500 Liters	1.54	<0.01	Pass
70%	7000 Liters	1.54	0.04	Pass
75%	7500 Liters	1.54	0.05	Pass
80%	8000 Liters	1.54	0.03	Pass
85%	8500 Liters	1.54	0.04	Pass
90%	9000 Liters	1.54	0.04	Pass
95%	9500 Liters	1.54	0.01	Pass
100%	10,000 Liters	1.54	0.06	Pass

PFBS Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFBS (µg/L)	Effluent 1 PFBS Concentration (µg/L)	% Reduction
10 UV	10 UV	0.11	<0.01	>90.91%
5%	500 Liters	0.11	<0.01	>90.91%
10%	1000 Liters	0.11	<0.01	>90.91%
15%	1500 Liters	0.11	<0.01	>90.91%
20%	2000 Liters	0.11	<0.01	>90.91%
25%	2500 Liters	0.11	<0.01	>90.91%
30%	3000 Liters	0.11	<0.01	>90.91%
35%	3500 Liters	0.11	<0.01	>90.91%
40%	4000 Liters	0.11	<0.01	>90.91%
45%	4500 Liters	0.09	<0.01	>88.89%
50%	5000 Liters	0.09	<0.01	>88.89%
55%	5500 Liters	0.09	<0.01	>88.89%
60%	6000 Liters	0.09	<0.01	>88.89%
65%	6500 Liters	0.09	<0.01	>88.89%
70%	7000 Liters	0.09	<0.01	>88.89%
75%	7500 Liters	0.42	<0.01	>97.62%
80%	8000 Liters	0.42	<0.01	>97.62%
85%	8500 Liters	0.42	<0.01	>97.62%
90%	9000 Liters	0.42	<0.01	>97.62%
95%	9500 Liters	0.42	<0.01	>97.62%
100%	10,000 Liters	0.42	<0.01	>97.62%

PFBS Reporting Limit: 0.01 µg/L



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PFBA Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFBA (µg/L)	Effluent 1 PFBA Concentration (µg/L)	% Reduction
10 UV	10 UV	0.08	<0.01	>87.50%
5%	500 Liters	0.08	<0.01	>87.50%
10%	1000 Liters	0.08	<0.01	>87.50%
15%	1500 Liters	0.08	<0.01	>87.50%
20%	2000 Liters	0.08	<0.01	>87.50%
25%	2500 Liters	0.08	<0.01	>87.50%
30%	3000 Liters	0.08	<0.01	>87.50%
35%	3500 Liters	0.08	<0.01	>87.50%
40%	4000 Liters	0.08	<0.01	>87.50%
45%	4500 Liters	0.08	<0.01	>87.50%
50%	5000 Liters	0.10	<0.01	>90.00%
55%	5500 Liters	0.10	<0.01	>90.00%
60%	6000 Liters	0.10	<0.01	>90.00%
65%	6500 Liters	0.10	0.05	50.00%
70%	7000 Liters	0.10	0.03	70.00%
75%	7500 Liters	0.10	<0.01	>90.00%
80%	8000 Liters	0.16	0.02	87.50%
85%	8500 Liters	0.16	0.02	87.50%
90%	9000 Liters	0.16	0.01	93.75%
95%	9500 Liters	0.16	<0.01	>93.75%
100%	10,000 Liters	0.16	0.02	87.50%

PFBA Reporting Limit: 0.01 µg/L

EPFB Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 EPFB (µg/L)	Effluent 1 EPFB Concentration (µg/L)	% Reduction
10 UV	10 UV	0.24	<0.01	>95.83%
5%	500 Liters	0.24	<0.01	>95.83%
10%	1000 Liters	0.24	<0.01	>95.83%
15%	1500 Liters	0.24	<0.01	>95.83%
20%	2000 Liters	0.24	<0.01	>95.83%
25%	2500 Liters	0.24	0.05	79.17%
30%	3000 Liters	0.24	<0.01	>95.83%
35%	3500 Liters	0.24	0.02	91.67%
40%	4000 Liters	0.09	0.05	44.44%
45%	4500 Liters	0.09	0.02	77.78%
50%	5000 Liters	0.09	0.01	88.89%
55%	5500 Liters	0.09	<0.01	>88.89%
60%	6000 Liters	0.09	<0.01	>88.89%
65%	6500 Liters	0.09	0.02	77.78%
70%	7000 Liters	0.26	0.04	84.62%
75%	7500 Liters	0.26	<0.01	>96.15%
80%	8000 Liters	0.26	0.04	84.62%
85%	8500 Liters	0.26	<0.01	>96.15%
90%	9000 Liters	0.26	<0.01	>96.15%
95%	9500 Liters	0.26	0.04	84.62%
100%	10,000 Liters	0.26	0.02	92.31%

EPFB Reporting Limit: 0.01 µg/L



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PFNA Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFNA (µg/L)	Effluent 1 PFNA Concentration (µg/L)	% Reduction
10 UV	10 UV	0.25	<0.01	>96.00%
5%	500 Liters	0.25	<0.01	>96.00%
10%	1000 Liters	0.25	<0.01	>96.00%
15%	1500 Liters	0.25	<0.01	>96.00%
20%	2000 Liters	0.25	<0.01	>96.00%
25%	2500 Liters	0.25	<0.01	>96.00%
30%	3000 Liters	0.25	<0.01	>96.00%
35%	3500 Liters	0.25	<0.01	>96.00%
40%	4000 Liters	0.25	<0.01	>96.00%
45%	4500 Liters	0.23	<0.01	>95.65%
50%	5000 Liters	0.23	<0.01	>95.65%
55%	5500 Liters	0.23	<0.01	>95.65%
60%	6000 Liters	0.23	<0.01	>95.65%
65%	6500 Liters	0.23	<0.01	>95.65%
70%	7000 Liters	0.24	<0.01	>95.83%
75%	7500 Liters	0.24	<0.01	>95.83%
80%	8000 Liters	0.24	<0.01	>95.83%
85%	8500 Liters	0.24	<0.01	>95.83%
90%	9000 Liters	0.24	<0.01	>95.83%
95%	9500 Liters	0.24	<0.01	>95.83%
100%	10,000 Liters	0.24	<0.01	>95.83%

PFNA Reporting Limit: 0.01 µg/L

PHHA Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PHHA (µg/L)	Effluent 1 PHHA Concentration (µg/L)	% Reduction
10 UV	10 UV	0.28	<0.01	>96.43%
5%	500 Liters	0.28	<0.01	>96.43%
10%	1000 Liters	0.28	<0.01	>96.43%
15%	1500 Liters	0.28	<0.01	>96.43%
20%	2000 Liters	0.28	<0.01	>96.43%
25%	2500 Liters	0.28	0.06	78.57%
30%	3000 Liters	0.28	<0.01	>96.43%
35%	3500 Liters	0.28	<0.01	>96.43%
40%	4000 Liters	0.19	<0.01	>94.74%
45%	4500 Liters	0.19	<0.01	>94.74%
50%	5000 Liters	0.19	<0.01	>94.74%
55%	5500 Liters	0.19	<0.01	>94.74%
60%	6000 Liters	0.19	<0.01	>94.74%
65%	6500 Liters	0.19	<0.01	>94.74%
70%	7000 Liters	0.21	<0.01	>95.24%
75%	7500 Liters	0.21	<0.01	>95.24%
80%	8000 Liters	0.21	<0.01	>95.24%
85%	8500 Liters	0.21	<0.01	>95.24%
90%	9000 Liters	0.21	<0.01	>95.24%
95%	9500 Liters	0.21	<0.01	>95.24%
100%	10,000 Liters	0.21	<0.01	>95.24%

PHHA Reporting Limit: 0.01 µg/L



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GenX Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 GenX (µg/L)	Effluent 1 GenX Concentration (µg/L)	% Reduction
10 UV	10 UV	0.12	<0.01	>91.67%
5%	500 Liters	0.12	<0.01	>91.67%
10%	1000 Liters	0.12	<0.01	>91.67%
15%	1500 Liters	0.12	<0.01	>91.67%
20%	2000 Liters	0.12	<0.01	>91.67%
25%	2500 Liters	0.12	<0.01	>91.67%
30%	3000 Liters	0.12	<0.01	>91.67%
35%	3500 Liters	0.12	<0.01	>91.67%
40%	4000 Liters	0.12	<0.01	>91.67%
45%	4500 Liters	0.12	<0.01	>91.67%
50%	5000 Liters	0.12	<0.01	>91.67%
55%	5500 Liters	0.17	<0.01	>94.12%
60%	6000 Liters	0.17	0.05	70.59%
65%	6500 Liters	0.17	0.03	82.35%
70%	7000 Liters	0.17	0.02	88.24%
75%	7500 Liters	0.17	0.02	88.24%
80%	8000 Liters	0.17	<0.01	>94.12%
85%	8500 Liters	0.17	0.07	58.82%
90%	9000 Liters	0.17	0.02	88.24%
95%	9500 Liters	0.17	0.05	70.59%
100%	10,000 Liters	0.17	0.03	82.35%

GenX Reporting Limit: 0.01 µg/L

NFBS Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 NFBS (µg/L)	Effluent 1 NFBS Concentration (µg/L)	% Reduction
10 UV	10 UV	0.10	<0.01	>90.00%
5%	500 Liters	0.10	<0.01	>90.00%
10%	1000 Liters	0.10	<0.01	>90.00%
15%	1500 Liters	0.10	<0.01	>90.00%
20%	2000 Liters	0.10	<0.01	>90.00%
25%	2500 Liters	0.10	<0.01	>90.00%
30%	3000 Liters	0.10	<0.01	>90.00%
35%	3500 Liters	0.10	<0.01	>90.00%
40%	4000 Liters	0.10	<0.01	>90.00%
45%	4500 Liters	0.16	0.07	56.25%
50%	5000 Liters	0.16	0.03	81.25%
55%	5500 Liters	0.16	<0.01	>93.75%
60%	6000 Liters	0.16	<0.01	>93.75%
65%	6500 Liters	0.16	<0.01	>93.75%
70%	7000 Liters	0.16	<0.01	>93.75%
75%	7500 Liters	0.16	<0.01	>93.75%
80%	8000 Liters	0.16	0.01	93.75%
85%	8500 Liters	0.16	<0.01	.75%
90%	9000 Liters	0.16	0.04	75.00%
95%	9500 Liters	0.16	<0.01	>93.75%
100%	10,000 Liters	0.16	0.02	87.50%

NFBS Reporting Limit: 0.01 µg/L



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Water Characteristics

Sample Point	pH (7.5±0.5)	Temperature (20±3°C)	Chloride (80-120) mg/L	Turbidity (<1 NTU)	Alkalinity (160-240) mg/L	Sulfate (160-240) mg/L
10 UV	7.1	19	85	0.1	165	200
5%	7.2	20	90	0.1	160	215
10%	7.2	19	85	0.1	165	215
15%	7.1	19	85	0.1	165	220
20%	7.1	20	92	0.1	185	215
25%	7.2	21	95	0.1	190	200
30%	7.2	21	95	0.2	195	200
35%	7.1	20	94	0.2	190	205
40%	7.1	21	86	0.2	195	210
45%	7.3	21	88	0.3	185	210
50%	7.2	22	91	0.3	205	205
55%	7.3	22	93	0.2	200	220
60%	7.3	22	94	0.3	195	225
65%	7.1	22	97	0.4	200	225
70%	7.2	22	98	0.3	205	205
75%	7.1	22	99	0.4	210	215
80%	7.2	22	95	0.4	185	220
85%	7.2	22	94	0.3	190	215
90%	7.3	22	96	0.4	195	215
95%	7.2	22	94	0.3	205	210
100%	7.3	22	92	0.3	210	230
Average	7.2	21	92	0.2	190	213

Filter System Tested



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