



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: Cyst Reduction PT 100%

Description: Inline Filter #Red

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: 09/01/2020



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Microspheres Reduction PT 100%: Failed

Manufacturer's Name: KLT Filtration

Sample Type: Research and Development

Product: Plumbed in without reservoir

Flow Rate: 2.5 Liters/min

Filter Capacity: 10,000 Liters

Conditioning Procedure: Flush for 5 minutes

Cycle: 50/50

Performance Indicator Device: No, test to 100% Capacity

Test Description: Cyst Reduction Testing

Trade Designation/Model Number: Red Filter

Unit Volume: 0.8 L

Performance Standard: NSF/ANSI Std 53 – 2019

Pass/Fail Criteria: The system shall reduce the number of microspheres from an influent challenge of at least 50,000 polystyrene microspheres per liter by at least 99.95%.

Decision Rule: Simple Acceptance based on the NSF/ANSI standard limit



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Filter #Red Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 Microspheres/L	Effluent 1 Microspheres/L	% Reduction
10 UV	10 UV	1,090,000	2496	99.77%
5%	500 Liters	1,090,000	2368	99.78%
10%	1000 Liters	1,090,000	1424	99.87%
15%	1500 Liters	1,090,000	242	99.98%
20%	2000 Liters	1,090,000	846	99.92%
25%	2500 Liters	1,090,000	334	99.97%
30%	3000 Liters	1,090,000	996	99.91%
35%	3500 Liters	1,090,000	578	99.95%
40%	4000 Liters	1,090,000	2672	99.75%
45%	4500 Liters	1,090,000	856	99.92%
50%	5000 Liters	1,090,000	1064	99.90%
55%	5500 Liters	1,100,000	576	99.95%
60%	6000 Liters	1,100,000	30	>99.99%
65%	6500 Liters	1,100,000	78	99.99%
70%	7000 Liters	1,100,000	212	99.98%
75%	7500 Liters	1,100,000	888	99.92%
80%	8000 Liters	1,100,000	2304	99.79%
85%	8500 Liters	1,100,000	414	99.96%
90%	9000 Liters	1,100,000	682	99.94%
95%	9500 Liters	1,100,000	654	99.94%
100%	10000 Liters	1,100,000	636	99.94%

Microspheres Reporting Limit: 1

Water Characteristics

Sample Point	pH (7.0 to 8.0)	Temperature (17 to 23°C)	Alkalinity (190 to 210 mg/L)	Turbidity (<1 NTU)
10 UV	7.4	19	195	0.1
5%	7.4	20	195	0.1
10%	7.3	19	190	0.1
15%	7.3	20	190	0.1
20%	7.4	19	190	0.2
25%	7.4	20	190	0.2
30%	7.3	19	195	0.2
35%	7.3	20	195	0.2
40%	7.2	19	190	0.1
45%	7.2	20	190	0.1
50%	7.3	19	190	0.1
55%	7.3	20	200	0.1
60%	7.5	19	200	0.2
65%	7.5	20	205	0.4
70%	7.2	22	205	0.4
75%	7.2	22	195	0.6
80%	7.2	22	195	0.6
85%	7.2	22	205	0.5
90%	7.4	22	210	0.5
95%	7.4	22	210	0.7
100%	7.5	22	205	0.7
Average	7.3	20	197	0.3

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