

Neo-Pure® 3-Stage Twist Lock Ultrafiltration System Model TL3 Performance Data Sheet



The Neo-Pure® TL3-A502 system has been tested and certified by IAPMO R&T Lab and IAPMO R&T according to NSF/ANSI Standards 42, 53, 401, and NSF Protocol P231 for Microbiological Water Purifiers for the reduction of the substances listed below as verified and substantiated by test data. The concentration of the indicated substances in the water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in the NSF/ANSI 42, 53, 401 Standards and the NSF P231 protocol.

NSF/ANSI Standard 42 Aesthetic Effects

Substance	Influent Challenge Concentration [mg/L]	Percent Reduction Requirement/ Maximum Permissible Product Water Concentration	Overall % Reduction
Chlorine, Taste and Odor	2.0 mg/L ± 10%	≥ 50%	95.5%
Chloramine	3.0 mg/L ± 10%	0.5 mg/L	95.5%
Particulate, Class I Particles 0.5 to < 1 µm	At least 10,000 particles/mL	≥ 85%	>99.9%

NSF/ANSI Standard 53 – Health Effects

Substance	Influent Challenge Concentration [mg/L]	Percent Reduction Requirement/ Maximum Permissible Product Water Concentration [mg/L]	Overall % Reduction
Cyst	Minimum 50,000/L	99.95%	>99.95%
Mercury pH 6.5	0.006 ± 10%	0.002	>96.6%
Mercury pH 8.5	0.006 ± 10%	0.002	>96.7%
Lead pH 6.5	0.15 ± 10%	0.010	>99.3%
Lead pH 8.5	0.15 ± 10%	0.010	>99.4%
MTBE Reduction	0.015 ± 20%	0.005	86.6%
Turbidity	11 ± 1 NTU	0.5 NTU	99.1%
VOC Chloroform Surrogate	0.300 ± 10%	95%	99.6%
Asbestos	107 to 108 fibers / L; greater than 10 µm in length	99	>99%

NSF/ANSI Standard 401 – Emerging Contaminants

Substance	Influent Challenge Concentration [mg/L]	Percent Reduction Requirement/ Maximum Permissible Product Water Concentration [µg/L]	Overall % Reduction
Phenytoin	200 ± 20%	30	95.6%
Ibuprofen	400 ± 20%	60	95.4%
Naproxen	140 ± 20%	20	96.4%
Estrone	140 ± 20%	20	96.5%
Bisphenol A	2,000 ± 20%	300	98.9%
Nonyl phenol	1,400 ± 20%	200	97.5%

NSF Protocol P231 – Microbiological Water Purifiers

Substance	Average Influent Challenge Concentration	Performance Requirements	Actual Performance
Bacteria	4.5 x 10 ⁷ cfu/100 ml	> 6 log reduction (99.9999%)	> 6 log reduction (99.9999%)
Virus	1.5 x 10 ⁵ pfu/ml	> 4 log reduction (99.99%)	> 4 log reduction (99.99%)

EPA Establishment Number: 088572-CHN-001

- Rated Capacity: 778 gallons or approximately 6 months
- Rated Service Flow: 1.0 gpm
- Operating Pressure: 30 – 100 psi
- Operating Temperature: 35 °F minimum, 100° F maximum

Replacement Components:

- Stage 1: TLR-A3502 – Chloramines Carbon Block with Lead, Cyst, and Pharmaceutical Reduction Cartridge
- Stage 2: TLR-A3502 – Chloramines Carbon Block with Lead, Cyst, and Pharmaceutical Reduction Cartridge
- Stage 3: TLR-A5HF12 – Hollow Fiber Membrane Cartridge

Actual Performance may vary; testing performed under standard laboratory conditions.

Not all water will contain contaminants listed. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after system. This system is not intended to convert waste water or raw sewage into drinking water. For use with cold water only. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts. Please see installation and filter replacement requirements for proper operation of this system. Check for compliance with state and local laws and regulations before installation.

Please see installation and filter replacement requirements for proper operation of this system. Check for compliance with state and local laws and regulations before installation. For installation in Massachusetts, Massachusetts Plumbing Code 248 shall be adhered to.