# **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 [ng/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.

# **Neo-Pure® Limited Warranty.**

This Ultrafiltration Drinking Water System is warranted against defects in material and workmanship for a period of one year from the date of installation, not to exceed 2 years from the date of manufacture. Consumable items such as filter cartridges and membranes are not covered by this warranty.

This warranty does not cover defects resulting from improper installation, from abuse, misuse, misapplication, improper maintenance, neglect, alterations, accidents, casualties fire, flood, freezing, environmental factors, freezing or hot water, water pressure spikes or other events such as acts of God.

# This warranty will be void if defects occur as a result of failure to observe the following conditions:

- **1.** The Ultrafiltration Drinking Water System must be hooked up to a potable municipal or well cold water supply.
- 2. The incoming water pressure must be between 30 and 100 psi.
- 3. The incoming water temperature cannot exceed 110° F.
- **4.** Do not use with water that is microbiologically unsafe or of unknown quality with adequate disinfection before or after the system.

# How to obtain Warranty Service:

Contact the dealer where you purchased the system from. Neo-Pure<sup>®</sup> will work in conjunction with our dealers to repair or replace at our discretion any unit that is determined to be defective. No returns will be accepted without the proper return authorization number.

This warranty does not cover any equipment that is relocated from the original installation site.

All replacement filters must be Neo-Pure brand replacement filters, or the warranty is void. If the unit is altered by anyone other than Neo-Pure, the warranty is void.

This warranty does not cover any equipment that is installed or used outside the USA and Canada.

Neo-Pure will not be responsible for any implied warranties, including those of merchantability and fitness for a particular purpose. Neo-Pure will not be responsible for any incidental or consequential damages, including water damage, travel expenses, loss of revenue, telephone charges, loss of time, inconvenience, loss of use of the equipment, and damage caused by this equipment and its failure to function properly. This warranty set forth all of Neo-Pure responsibilities regarding this equipment.

If Neo-Pure chooses to replace the equipment, it may be replaced with reconditioned equipment. Parts used in repairing or replacing the equipment will be warranted for 90 days from the date the equipment is returned to you or for the remainder of the original warranty period, whichever is longer. This warranty is not assignable or transferable.



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