AmeriWater

The Water Purification Specialists

Healthcare Products and Accessories Catalog

www.ameriwater.com

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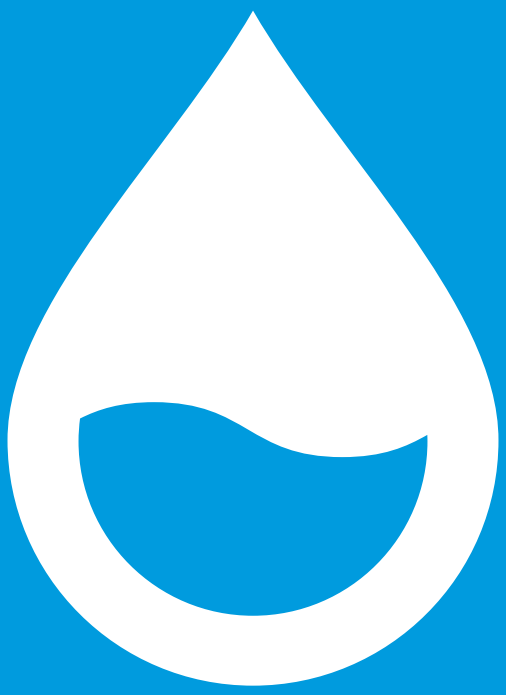


AmeriWater is an industry leader in the design, manufacture, installation and supply of water purification systems and services for the healthcare sector.

Healthcare facilities require water treatment for a variety of medical applications, each with its own unique standards and requirements. At AmeriWater, we understand these varying needs and have designed a range of water purification systems specifically tailored to the needs of each healthcare application.

Our extensive range of healthcare solutions means you have a reliable single source for all your water treatment needs, saving you valuable time coordinating technical compatibilities between several suppliers.

Based in Dayton, Ohio, AmeriWater has a nationwide network of sales and service dealers which means same day support can be provided to any US location.

CENTRAL STERILE WATER SYSTEMS

Water Treatment Solutions that meet AAMI TIR34 Recommendations

Having high quality water is imperative for patient health and equipment life. AmeriWater's systems conform with the recommendations put forth by the Association for Advancement of Medical Instrumentation (AAMI). These recommendations are divided into two segments for medical device reprocessing: utility water and critical water. AmeriWater's systems meet AAMI recommendations for both segments.

This product provides critical water for washers, disinfectors, glassware washers, steam boilers and final rinses. Reverse osmosis system and storage tank with demand pump package that provides from 800 to 7,500 GPD. DI water is required for the system; AmeriWater offers two options, a two-column Silex Deionizer (as shown below) or DI Exchange Tanks. Optional blend valve also shown below (77° feed water temperature recommended).

The advantages

- Create critical water consistently. Our reliable systems ensure no impurities are left behind on the instruments. Less wear, less opportunity for contamination exists.
- Complete water treatment systems. You'll only need to work with our water purification specialists to achieve high purity critical water within the system as a whole.
- Work healthier. Meeting TIR34 standards prevents the spread of bacteria and other contaminants that may harm your patients.
- Save money. Our system meets current recommendations making your facility much less likely to need another upgrade when adopted as standards.

TIR34 – AN OVERVIEW

The Association for the Advancement of Medical Instrumentation (AAMI) periodically issues Technical Information Reports (TIR) that provide valuable information to healthcare industry professionals. These TIR's require additional refinement and research prior to becoming an official standard, but are issued as recommendations through a technical committee representing the AAMI Standards Board. The TIR is not a standard. Standards are formally approved recommended practices. An AAMI-issued TIR can be changed or withdrawn at any time.

ST108 was issued as AAMI TIR34 in 2014. ST108 was approved to replace AAMI TIR34 in a work item proposal issued in November 2019. The recommendation is one step closer to becoming a standard, however, that approval process will take place at a later date. The levels and recommendations given here are from TIR34; the final ST108 release may differ slightly.

It is important to note that AAMI TIR and standards are not requirements. These are recommended practices to improve upon procedures to ensure higher health standards for patients, clinicians, and all healthcare professionals.

WHAT IS AAMI

AAMI is a nonprofit organization with over 50 years of experience helping healthcare and sterilization industry members stay up to date on advances in healthcare technology. In addition, the organization offers certification courses, continuing education classes, and resources to educate members.

WHAT DOES TIR34 COVER?

AAMI's TIR34 covers the selection and maintenance of effective water quality suitable for reprocessing medical devices. The standards include quality control procedures for monitoring, strategies for bacterial control, etc. These standards are divided into two segments for medical device reprocessing: utility water and critical water.

RELIABLE REVERSE OSMOSIS SYSTEMS WITH STORAGE TANKS

Everything You Need to Achieve Critical Water in a Space-Conscious Layout

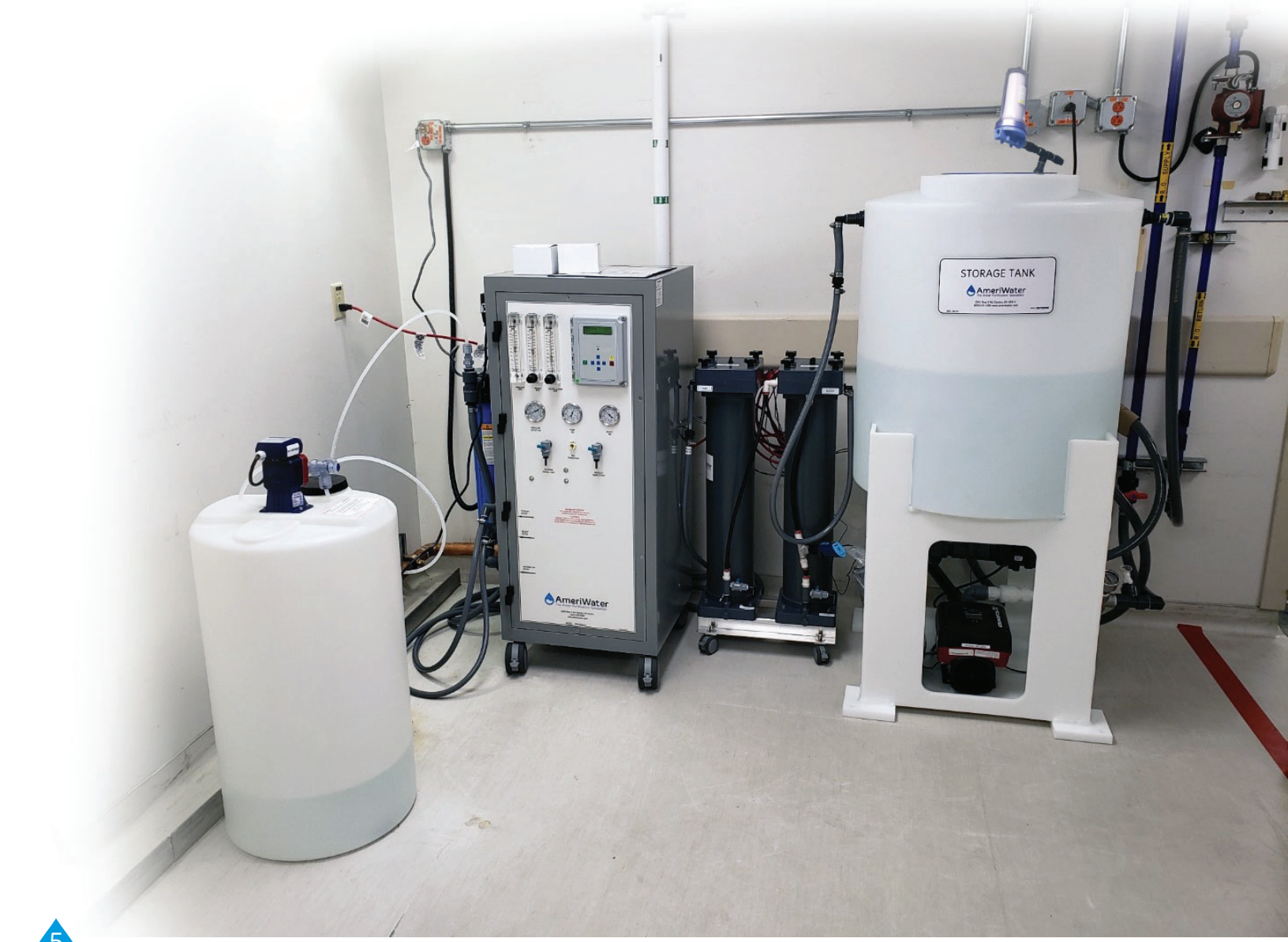
The system works by first allowing tempered tap water from the blend valve to enter the water system through the carbon filters, which remove chlorine. After the carbon filters a chemical injection system injects anti-scalant into the RO feed water stream to control hardness scaling.

Next, the water flows into the reverse osmosis (RO) unit to remove >96% of the dissolved impurities from the tap water. The RO concentrated waste is sent to the drain.

RO product water flows through the mixed bed deionizer then to the storage tank. The DI water quality is monitored with an audible 1 megohm quality indicator. Water from the storage tank is re-pressurized and sent to the UV disinfection unit. The water then flows into a final bacteria/endotoxin filter and then is continuously recirculated to the usage points throughout the sterile processing department.

Water from the continuously flowing distribution loop is recirculated back to the storage tank and monitored and controlled by a return flow meter, pressure gauge and relief valve.

The entire AmeriWater TIR34 compliant central sterile water system is monitored by a central alarm panel. The panel comes with a remote alarm that can be placed away from the unit for increased visibility and awareness of the system.



55 Gallon Storage Tank Systems

	00HC-3019	00HC-3020
RO PRODUCTION RATED CAPACITY*		
GPD	800	2,200
LPD	3,028	8,328
DISTRIBUTION PUMP OUTPUT		
GPM	30	30
PSI	30	30
STORAGE TANK CAPACITY (GAL.)	55	55
UV DOSE RATE (mJ/cm^2)	16-23	16-23
SYSTEM DIMENSIONS (W x D x H)	50 x 30 x 74	56 x 30 x 74

100 Gallon Storage Tank Systems

	00HC-3021	00HC-3022	00HC-3025
RO PRODUCTION RATED CAPACITY			
GPD	2,200	4,200	5,600
LPD	8,328	15,897	21,196
DISTRIBUTION PUMP OUTPUT			
GPM	30	30	30
PSI	30	30	30
STORAGE TANK CAPACITY (GAL.)	100	100	100
UV DOSE RATE (mJ/cm^2)	16-23	16-23	16-23
SYSTEM DIMENSIONS (W x D x H)	68 x 36 x78	90 x 36 x 78	90 x 36 x 78

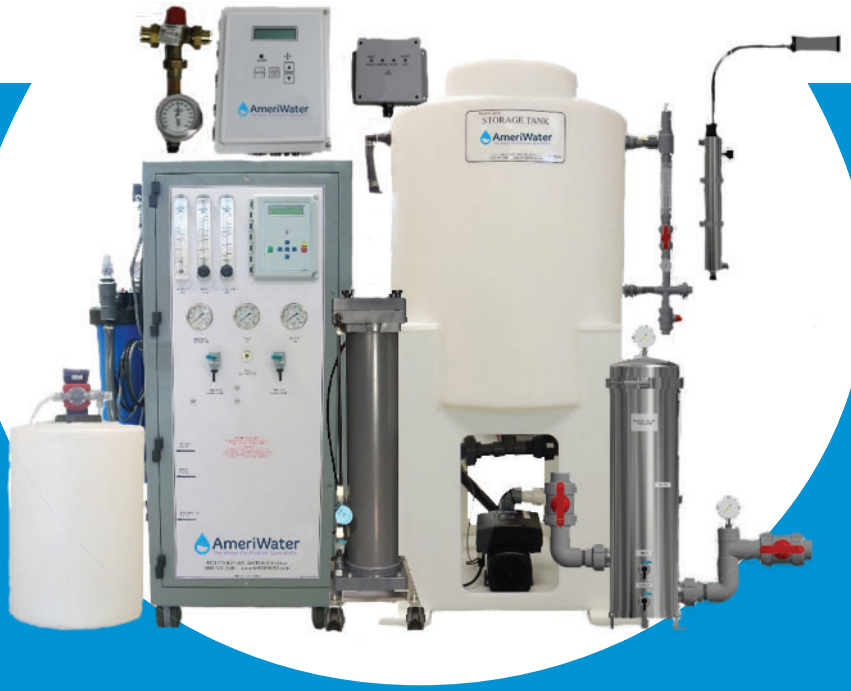
185 Gallon Storage Tank Systems

	00HC-3023	00HC-3024	00HC-3026	00HC-3030
RO PRODUCTION RATED CAPACITY				
GPD	2,200	4,200	5,600	7,500
LPD	8,328	15,897	21,196	28,390
DISTRIBUTION PUMP OUTPUT				
GPM	30	30	30	70
PSI	30	30	30	30
STORAGE TANK CAPACITY (GAL.)	185	185	185	185
UV DOSE RATE (mJ/cm^2)	16-23	16-23	16-23	30-36
SYSTEM DIMENSIONS (W x D x H)	72 x 36 x 108	92 x 36 x 108	92 x 36 x 108	121 x 36 x 108

*Product flow rate varies with temperature and inlet pressure. All models are rated at 77°F with feed water of 1500 mg/lNaCl @ 55 PSI feed pressure and pH of 7.5. As a safety factor use 60% of the rated capacity when sizing or add blend valve to temper the feed water.

UPGRADE YOUR EXISTING SYSTEM

Bring your current healthcare water system up to the TIR 34 recommendations with our simple upgrade kits



Your upgrade will include:

Ultraviolet Light
- Controls bacteria proliferation in purified water storage and distribution systems
- Equipped with an online monitor to measure output intensity and alarms when lamp needs replaced

Ultrafiltration
- Installed post UV to remove endotoxins from the purified water storage and distribution system

Alarm Panel
- Monitors system operating conditions
- Includes RO alarm, low storage tank, and DI resistivity
- Remote alarm included for continuous system monitoring outside water room

Storage Tank Flowmeter and Vent Filter

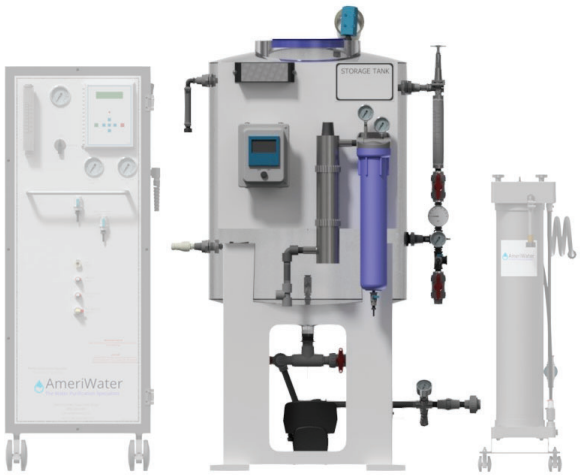
Our system options come in 20, 30, and 70 GPM. Contact our water professionals and see how this simple upgrade can save you money today.

STORAGE TANK WITH UV DISINFECTOR

Consistent Type II water for your lab uses

The laboratory storage tank, with UV disinfector and submicron filter, is intended for use with a reverse osmosis unit and a deionizer providing Type II water.

This system is used on washer/disinfectors, lab, glassware washers, and blood analyzers. A 55 or 100 gallon storage tank with demand pump package provides up to 4 GPM for a ½" recirculating loop.



RO and Deionizer sold separately

Features

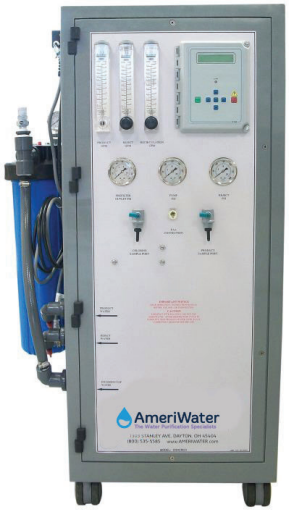
- 55 or 100 gallon storage tank with sealed lid and pump package
- UV disinfection light
- Includes a resistivity monitor with alarm
- Post submicron filtration 0.2 micron
- End of loop recirculation header
- Storage tank empty pump shutdown

LABORATORY FOR CENTRAL AND POINT OF USE – REVERSE OSMOSIS SYSTEMS

Reliable systems with superior durability

AmeriWater's unique cabinet design provides superior durability. With the pump, membranes and pretreatment located inside, the system is so quiet you won't even know it is running.

When it's time for maintenance, the hinged doors on the front and rear of the cabinet allow quick and easy access. Note: The anti-scalant and carbon pretreatment for the HCR03 and HCR04 are located on the outside of the cabinet for easy access.



The Advantages

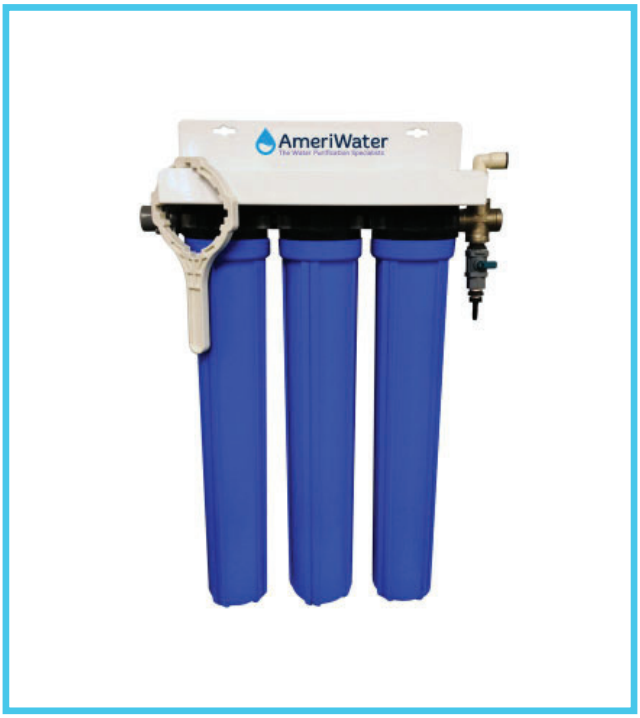
- Disinfection is quick and easy. With a simple push of the keypad, the RO can be disinfected with PAA in only one hour.
- Microprocessor controller keeps you informed of operating conditions with backlit LCD. displaying product and feed water conductivity, product water temperature, operating hours, percent rejection, and a variety of operating status messages. Programmable flush keeps RO fresh between uses.

WALL MOUNTED DEIONIZER WATER

A deionizer for small quantity users

This system utilizes three 2700 grain (as CaCO3) mixed bed cartridges providing greater than 15 megohm/cm water resistivity.

The monitor light glows green when the resistivity is above the set point and glows red when it is time to change cartridges.



Specifications

- Maximum Flow: 1 GPM
- Inlet: ½" FPT
- Outlet: ⅜" Tube Fitting
- Dimensions In. (W x D x H): 22 x 5½ x 27½
- Maximum Pressure: 100 PSI
- Maximum Temperature: 100°F

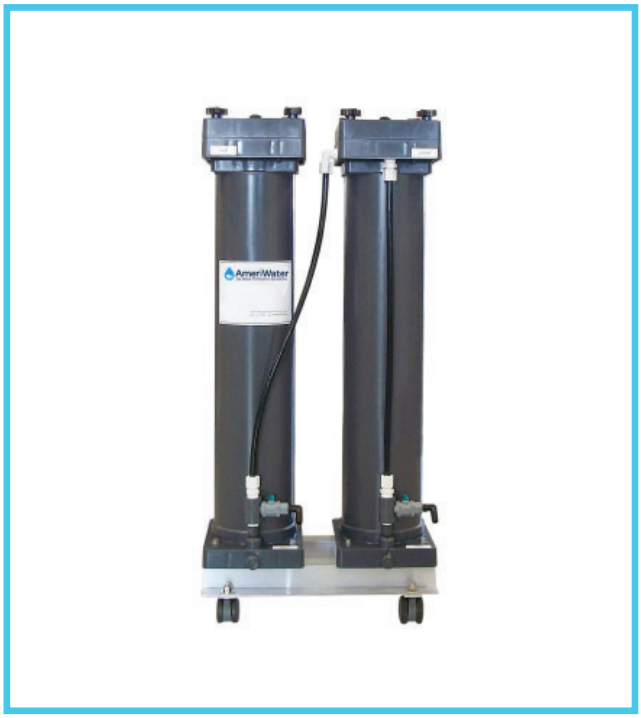
DUAL WORKER/POLISHER DEIONIZER

Designed for use with the laboratory system to polish the water from the RO storage tank

Uses include labs, critical spot free rinsing, chemical dilution and mixing, humidification, etc.

The Silex deionizer uses packs of mixed bed resin that are sent back to the regeneration center to be recharged. A spare set is provided so they can be alternated for regeneration. The regeneration service is only a fraction of the cost of disposable deionizer beds or cartridges.

The all PVC housings are durable and the packs are easy to exchange.



Specifications

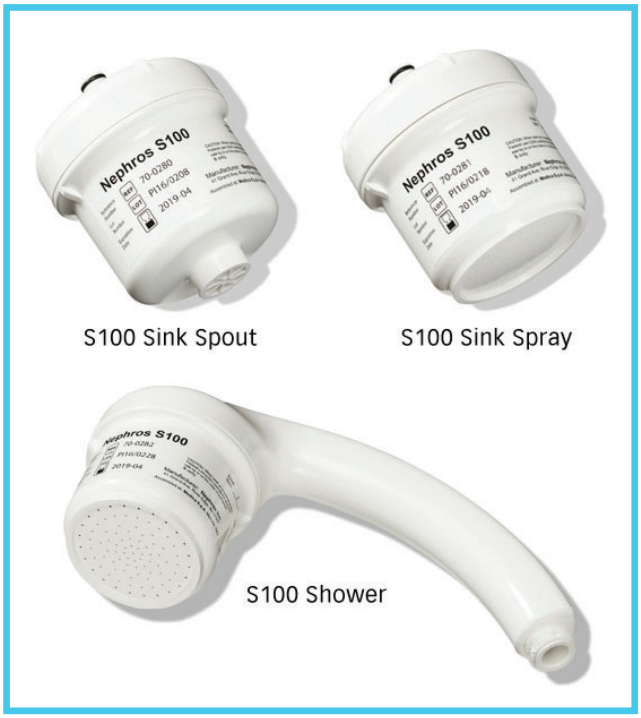
- Inlet/Outlet: ½" NPT
- Capacity: ½ Cubic Foot for Each Housing
- Flow Rate: Up to 4 GPM
- Maximum Feed Pressure: 50 PSI Without Regulator Kit
- Maximum Temperature: 110°F
- Bottom Drain and Sample Port: ⅜" Ball Valve

INFECTION CONTROL – S100 POINT OF USE FILTERS

Easily adapted to sinks and showers

With the risk of hospital-associated infections and their associated costs on the rise, Nephros FDA Cleared Filters are an important addition to aid in infection control.

By retaining bacteria in water for washing and drinking, the filters may aid in infection control. These highly effective filters are ideal for high-risk patient areas: ICU/NICU, Transplant, Oncology, Hematology, Burn Unit, Surgical, Pediatrics, and Geriatrics.



Features

- Single stage filtration design
- Barrier for bacteria
- Allows quick and easy installation

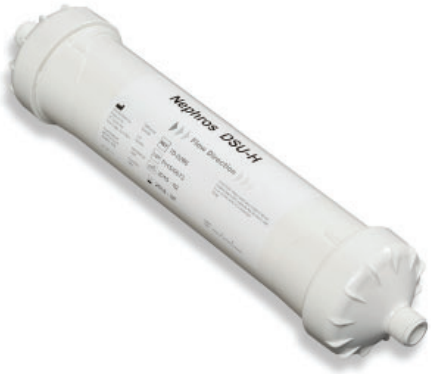
INFECTION CONTROL – DSU-H ICE MACHINE FILTER

Provides up to 6 months of protection

One of the Critical Control Points in a hospital's water management plan is ice machines.

Nephros' proprietary hollow fiber membrane ultrafilter effectively retains bacteria and viruses found in water.

The water permeability of the membrane is more than double that of membranes with comparable pore size, thus providing efficient flow performance relative to the physical size of the filter.



Our water purification specialists act as your consultants, finding the most efficient system for your facility.

AmeriWater
The Water Purification Specialists

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