

PRS-12

Particle Reduction System

The PRS-12 system is designed to remove small particulate and colloidal material from tap water and protect bacterial filtration systems. In a hospital, clinic, dental office or outpatient surgery environment; bacterial filtration is used to protect patients and equipment from exposure to water-borne bacteria such as E.coli or Pseudomonas. Unfortunately, in some applications, tap water particulate concentrations are high enough to prematurely foul filters, requiring the frequent replacement of expensive filters.

The PRS-12 will pre-treat the feed water to the device-reprocessing equipment or laboratory analytical equipment and prolong the life of bacterial filters.

The unique, 100kD molecular weight hollow fiber, ultrafiltration membrane is periodically cleaned by a built-in, programmable flushing system. The flush cycle helps provide long UF filter life resulting in very little loss in flow and differential pressure.



Standard Features & Benefits

- 100,000 Dalton Molecular Weight Hollow Fiber Ultrafilter
- Built-in Programmable Auto-Flush System
- 10 GPM Maximum Flow Rate
- System is Packaged and Ready to Install
- Includes Wall Mounting Bracket
- Clean/filtered Water Used for Auto Flushing
- Can be Mounted Vertically or Horizontally

Technical Data

Product Specifications

PRS-12 System

Model Number	Part Number	Height (in)	Width (in)	Depth (in)	Operating Weight w/ water (lbs)	Shipping Weight (lbs)
PRS-12	3028096	15	50	9	54	45

Note: All weights and dimensions are approximate.

Disclaimer: The PRS-12 is not designed to produce pyrogen or endotoxin free water. It is a pretreatment system. If bacterial filters have been provided with a medical or pharmaceutical system, they must remain in place.

Feedwater Requirements

Feed Water Type	Potable Tap Water	
pH	(Min.) 3	(Max.) 10.0
Pressure	(Min.) 30 PSI (2.07 bar)	(Max.) 100 PSI (6.89 bar)
Temperature	(Min.) 40°F (4°C)	(Max.) 104°F (40°C)
Maximum Trans Membrane Pressure	45 PSI (3.1 Bar)	

Installation Considerations

System is designed to be mounted on the wall. Requires space to service all components.

1 -inch NPT tap water inlet (30 to 100 psi feed pressure)

¾-inch FNPT air gap drain connection

1-inch NPT permeate (treated water) connection

120-volt power outlet / 15 amps

Performance Claims for Percent Reduction

Substance	Influent Challenge Concentration	Reduction Required	Minimum % Reduction
cyst*	minimum 50,000/L	99.95%	99.95%
Turbidity	11 +/-1 NTU	≤ 0.5 NTU	97.3%
Particle Class I Particles 0.5 to < 1µm	at least 10,000 particles /mL	85%	N/A

* Based on the use of microspheres or Cryptosporium parvum oocysts



System Tested and Certified by NSF International against NSF/ANSI Standard 42 and 53 for the reduction of (see performance claims for percent reduction):

Standard No. 42: Aesthetic Effects
Nominal Particulate Reduction Class I
Standard No. 53: Health Effects
Cyst Reduction & Turbidity Reduction
as verified and substantiated by test data.

This system has been tested according to NSF/ANSI Standard 42 and 53 for the reduction of the substances listed below. The concentration of the indicated substances in 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 NSF/ANSI 42 or 53. While testing was performed under standard laboratory conditions, actual performance may vary.

NOTE: The NSF information provided applies to the Ultra Filter Cartridge.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

Replacement Module

Part Number	3028093
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