



## PROTEGO® PLUS HTX METAL ION PURIFIERS

*Purifiers that deliver ultimate protection from metal ion contamination in critical cleaning applications at high temperatures*

### Overview

Protego® Plus HTX metal ion purifiers deliver ultimate protection from metal ion contamination by providing high capacity, single-pass removal of metal ions from ultrapure water and some organic solvents. Protego Plus HTX is designed to provide metal removal in DI water rinse applications at temperatures to 80°C, enabling advanced critical cleaning applications.

#### Multi-metal Ion Removal in a Single Pass

The unique Protego Plus HTX metal ion purifier removes low levels of most cationic metals in a single-pass application. Entegris has developed the ultimate long-life metal ion removal technology to maximize your total filtration volume and system uptime.

### Applications

Protego Plus HTX purifier/filters offer superior particle performance, providing more than 99.9 percent removal at the specified retention ratings.

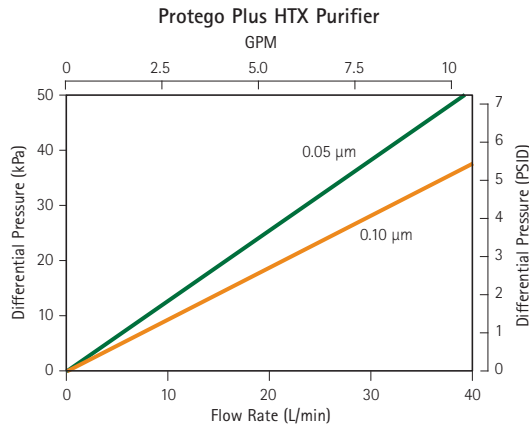


Features	Benefits
High-capacity multiple cation exchange technology	Delivers high removal rates of multiple metallic cation contamination in both single-pass and recirculation applications, with long lifetime capacity. Ensures maximum system uptime.
High-flow HTX cartridge design	The Protego Plus HTX cartridges' large surface area provides maximum ion exchange medium in a compact design to provide high retention without sacrificing flow.
Purifier/filter available in retention ratings of 0.05 µm and 0.10 µm	The combined purifier/filter eliminates the need for additional components in your fluid delivery system. Provides excellent small particle retention. Reduces component costs and maximizes system uptime.
Clean polypropylene materials used in device manufacturing	Provides device stability in high-temperature (80°C) advanced applications.

## Specifications

Materials:	Membrane	Hydrophilic polyethersulfone
	Ion exchange media	Polyethylene
	Support, core/sleeve, Chemlock® key	Polypropylene
	O-rings	Fluoropolymer encapsulated fluoroelastomer (E-FKM)
Connections:	Code 0 (double o-rings)	
Operating conditions:	Maximum forward differential pressure	0.27 MPa (40 PSI) at 25°C 0.05 MPa (7 PSI) at 80°C
	Maximum reverse differential pressure	0.27 MPa (40 PSI) at 25°C
	Maximum operating temperature	80°C (176°F) at the above conditions
Membrane area:	0.05 µm	0.83 m <sup>2</sup> (8.93 ft <sup>2</sup> )
	0.10 µm	0.77 m <sup>2</sup> (8.29 ft <sup>2</sup> )
Ion exchange capacity:	>98 meq/unit	

## Performance Data



## Ordering Information

Retention Rating	With Chemlock Key	Without Key
0.05 µm	PRHZ01P01Y	PRHZ01P01
0.10 µm	PRHV01P01Y	PRHV01P01

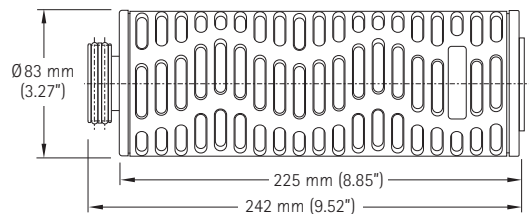
## For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [www.entegris.com](http://www.entegris.com) and select the "Customer Service" link for the center nearest you.

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## Dimensions (nominal)



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