Protego® Plus HTX 1 nm Dl Water Purifiers

All-in-one metal purifier/filter devices that deliver ultimate protection from metal contamination in critical DI water applications

Entegris has expanded the high-performance Protego® Plus DI water purifier portfolio to include Protego Plus HTX 1 nm purifiers. These advanced, clean purifier/filter devices enable superior flow rate performance and contaminant retention capabilities in critical cleaning DI water applications.

The ultraclean product design promotes fast startups and high yields at high-temperature ranges.

Protego Plus DI water devices enable superior removal rates of multiple metallic contamination in single-pass or recirculation DI water applications. The high-ion exchange capability delivers proven particles performance and low metals extractables with fewer particles on wafer, and the metal ion removal technology minimizes system downtime.

APPLICATIONS

- DI water
- Bulk and point of use
- High-temperature processes <80°C (176F°)



FEATURES & BENEFITS

Ultraclean Purifier/filter design

Enables superior flow rate performance and contaminant retention capabilities in critical cleaning DI water applications

Promotes fast startups and high yields at high temperatures

1 nm retention rating

Provides advanced filtration for hightemperature, critical-cleaning applications at sub-2x nm technology nodes:

- Improves single-pass retention efficiency
- Reduces on-wafer defects
- Enables higher yield

High-ion exchange capability Proven particles performance and low metals extractables with fewer particles on wafer

Metal ion removal technology minimizes system downtime

Superior removal rates of multiple metallic contamination in single-pass or recirculation DI water applications



SPECIFICATIONS

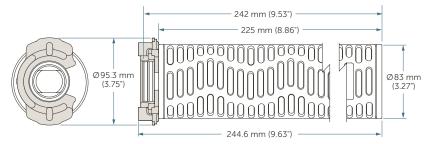
HTX Type

Materials	Membrane	Non dewetting polysulfone (PS)	
	Supports, sleeve, core, end caps	Polypropylene (PP)	
	lon exchange media	Polyethylene (PE)	
	O-rings	Encapsulated fluoropolymer (E-FKM) or Kalrez® 6375 UP	
	Chemlock® key	Polypropylene	
Retention rating	1 nm		
Membrane surface area	0.93 m² (10.01 ft²)		
Maximum operating conditions	Maximum forward differential pressure: 0.27 MPa (2.7 bar; 40 psid) @ 25°C (77°F) 0.05 MPa (0.5 bar; 7 psid) @ 80°C (176°F)		
	Maximum reverse pressure: 0.27 MPa (2.7 bar; 40 psi) @ 25°C (77°F)		
	Maximum operating temperature: 80°C (176°F)		

DIMENSIONS

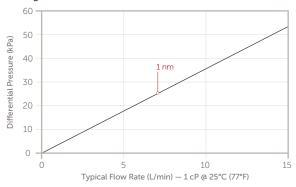
HTX 10" Cartridges

Code O – with Chemlock Key



PERFORMANCE DATA

Protego Plus HTX Purifier



ORDERING INFORMATION

Part number	0-ring	Chemlock key
PRHE01PQ10T	E-FKM	No
PRHE01PQ1YT	E-FKM	Yes
PRHE01PPR0T	Kalrez	No
PRHE01PPRYT	Kalrez	Yes

Note: Filters are prewet - enclosed in a bag filled with 100% DI water.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit <u>entegris.com</u> and select the <u>Contact Us</u> link to find the customer service center nearest you.

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