

Protego[®] Plus HTX 1 nm DI 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 (176°F)



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 high-temperature, critical-cleaning applications at sub-2x nm technology nodes: <ul style="list-style-type: none">• 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

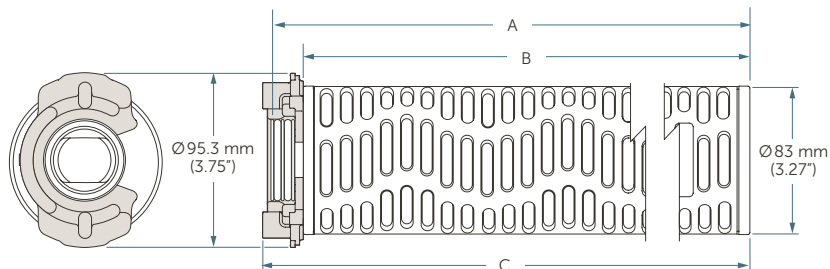
HTX Type

Materials	Membrane	Polysulfone (PS)
	Ion exchange media	Polyethylene
	Support, sleeve, core, end caps	Polypropylene (PP)
	O-rings	Fluoropolymer encapsulated fluoroelastomer (E-FKM) FFKM
	Chemlock® key	Polypropylene(PP)
Retention rating	1 nm	
Membrane surface area	10" Cartridge	0.93 m ² (10.01 ft ²)
	20" Cartridge	1.96 m ² (21.1 ft ²)
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 differential pressure: 0.27 MPa (2.7 bar, 40 psid) @ 25°C (77°F) Maximum operating temperature: 80°C (176°F)	

DIMENSIONS

HTX 10" and 20" Cartridges

Code 0 – with Chemlock Key

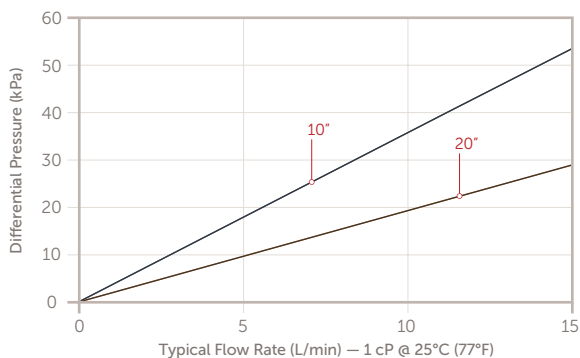


Dimensions

	A	B	C
10" cartridge	242 mm (9.53")	225 mm (8.86")	244.6 mm (9.63")
20" cartridge	471 mm (18.54")	454 mm (17.87")	473.6 mm (18.65")

PERFORMANCE DATA

Protego Plus HTX Purifier



ORDERING INFORMATION

Part number	Cartridge size	O-ring	Chemlock key
PRHE01PQ10T	10"	E-FKM	No
PRHE01PQ1YT	10"	E-FKM	Yes
PRHE01PPR0T	10"	FFKM	No
PRHE01PPRYT	10"	FFKM	Yes
PRHE02PQ10T	20"	E-FKM	No
PRHE02PQ1YT	20"	E-FKM	Yes
PRHE02PPR0T	20"	FFKM	No
PRHE02PPRYT	20"	FFKM	Yes

Note: Filters are prewet – enclosed in a bag filled with 100% DIW.

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

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