Rinsegard® HP and HPX Cartridge and Disposable Filters

Simultaneously removes trace levels of positively charged ions and fine particles in ultrapure DI water

Rinsegard® HP/HPX filters optimize wafer quality by removing trace metallic ions, even from ultrapure water. Trace metals in ultrapure water — at the wet etch, clean process, and especially the rinse stages — can increase metal contamination of the wafer and decrease minority carrier lifetime measurement. Detection of low concentrations of trace metals presents a challenge as conventional resistivity monitoring equipment cannot accurately measure or monitor trace metallic ions in the low parts-pertrillion (ppt) range.

Rinsegard HP/HPX filters, utilize a patented, hydrophilic UPE membrane. The Rinsegard filters remove a finite mass of multivalent metal ions and particles from ultrapure water and offer superior particle performance.

Simple Installation and Replacement

Rinsegard HP/HPX filters simplify filter changeout and minimize downtime. The patented hydrophilic membrane (UPE) eliminates the need for prewetting or flushing, and the large filtration area of the HPX filter enhances membrane retention and flow.



Aqueous chemicals instantly wet Rinsegard hydrophilic UPE membrane



PTFE membrane resists instantaneous wetting



FEATURES & BENEFITS

Hydrophilic,	patented	UPE
membrane		

Increases equipment uptime, and provides better, more consistent performance

Eliminates prewetting and flushing. Saves time at changeout

Multifunctional membrane with the ability to eliminate ions and particles

Eliminates trace levels of ions and improves quality of ultrapure water

Decreases metal contamination on wafer and reduces waste.

Removes particles with greater than 99.9% efficiency at stated retention rating.

Available in retention ratings of 0.05 μ m, 0.1, and 0.2 μ m

Excellent small particle retention: ensures minimal particles on wafer

High membrane-area cartridge, with low pressure drop across the membrane

High flow and efficient particle removal: ensures rapid particle removal in one-pass and recirculating applications

All-polyethylene construction

Provides excellent chemical compatibility, long lifetime, reduced changeout and system startup times

Available in 4", 10", 20", and 30" cartridge sizes as well as disposable filter options

Designed to fit the flow and process needs and space constraints for wide variety of customers and original equipment manufacturing (OEM) suppliers.



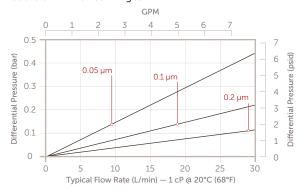
SPECIFICATIONS

		НР	НРХ	
Materials of construction	Membrane	Patented hydrophilic ultra-high molecular weight polyethylene (U		
	Supports, sleeve, core, end caps	Nonwoven high-densi	ty polyethylene (HDPE)	
	Code O double 2-222 O-rings	Teflon® encapsulated Viton® (TEV), or EPDM		
_	Chem-Line™ II disposables outer shell	N/A	Polypropylene	
	Chem-Line I disposables outer shell	N/A	PFA	
Retention rating		0.2, 0.1, 0.05 μm		
Membrane surface area	10": 0.85 m²	4": 0.5 m²		
		10": 1.1 m²		
			20": 2.2 m²	
			30": 3.3 m²	
Maximum		Maximum forward differential pressure:		
operating conditions		0.35 MPa (3.5 bar; 50 բ	osid) @ 25°C (77°F)	
		Maximum reverse diffe	erential pressure:	
		0.35 MPa (3.5 bar; 50 բ	osid) @ 25°C (77°F)	
	Maximum operating to	emperature:		
		Cartridges: 60°C (140°	F) at the above conditions	
	Disposables: 70°C (158	3°F) at the above conditions		
Cleanliness		<2 particles/mL >0.2 μm after 5-minute flush DI water @ 5 L/min		
Compatibility		Designed for ultrapure DI wate	er. Not compatible with ozone.	

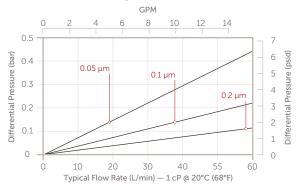
Rinsegard HP, HPX Cartridge Filters

PERFORMANCE DATA

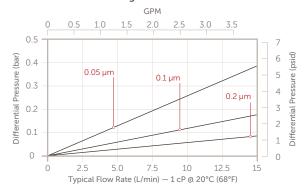
Guardian HP 10" Cartridges



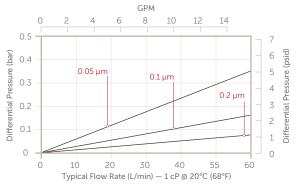
Guardian HP 20" Cartridges



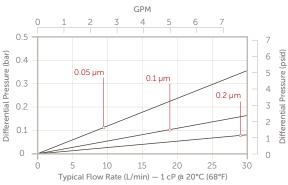
Guardian HPX 4" Cartridges



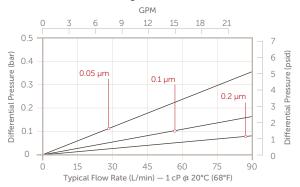
Guardian HPX 20" Cartridges



Guardian HPX 10" Cartridges



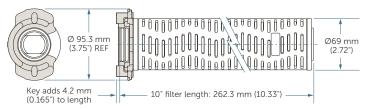
Guardian HPX 30" Cartridges



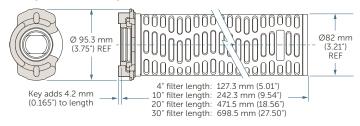
DIMENSIONS

Nominal Dimensions

Rinsegard HP Cartridge Filters

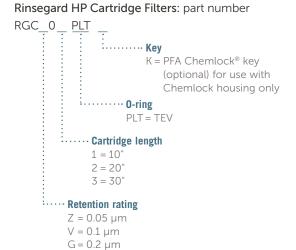


Rinsegard HPX Cartridge Filters

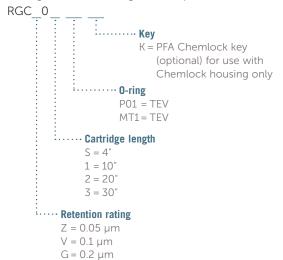


ORDERING INFORMATION





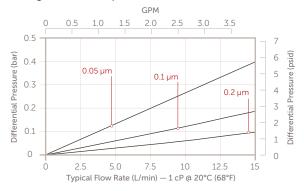
Rinsegard HPX Cartridge Filters: part number



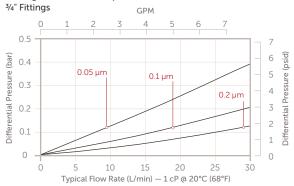
Rinsegard Disposable Filters

PERFORMANCE DATA

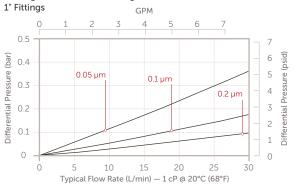
Rinsegard HPX 4" Disposable Filters



Rinsegard HPX 10" Disposable Filters



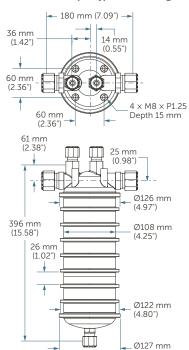
Rinsegard HPX 10" Cartridges



DIMENSIONS (NOMINAL)

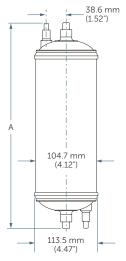
Chem-Line I Disposable Filters

TH: T-Line 3/4" Super Type Pillar® Fittings



Chem-Line II Disposable Filters

(5.00")

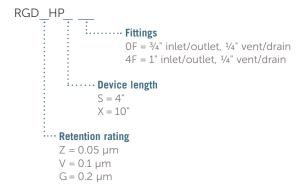


DIMENSION A

Inlet/ outlet size	4" Disposable filter with Flaretek® compatible fittings	10" Disposable filter with Flaretek compatible fittings
3/4"	247.9 mm (9.72")	359.9 mm (14.17")
1"	_	370.1 mm (14.57")

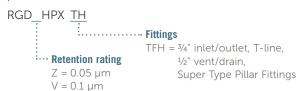
ORDERING INFORMATION

Rinsegard HPX Chem-Line II Disposable Filters: part number



Rinsegard HPX Chem-Line I Disposable Filters:

part number



FOR MORE INFORMATION

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