

## IonKleen™ AQHT Purifier



### Description

The IonKleen AQHT purifier has been specifically designed for the removal of metal ions from ultrapure hot water. It is ideally suited for use in the semiconductor Industry's most critical final cleaning processes. The IonKleen AQHT purifier's membrane has been modified to incorporate ion exchange groups on its surface resulting in spontaneous and immediate metal removal from ultrapure hot water. The purifier is available in standard filter configurations.

- Excellent metal removal efficiency in high purity hot water
- Initial cleanliness of the purifier minimizes the rinse-up period
- Simplifies purification techniques
- High capacity for metal ions
- Manufactured in a cleanroom environment

### Specifications

#### Materials

- Medium: Hydrophilic ultra high molecular weight polyethylene (UHMWPE)
- Core, cage, end caps; support and drainage: Polypropylene
- O-ring options: EPR, FEP encapsulated fluoroelastomer, Kalrez<sup>1</sup>, acid resistant fluoroelastomer and silicone

#### Configurations

- Nominal length:  
AB1: 254 mm / 10 in  
AB2: 508 mm / 20 in  
AB3: 762 mm / 30 in
- Nominal diameter:  
70 mm / 2.75 in

#### O-ring size/end caps:

- Code 3: 222 double O-ring/flat end
- Code 7: 226 double O-ring/bayonet lock / finned end
- Code 8: 222 double O-ring/finned end

#### Operating Conditions

- Maximum Operating Temperature: 85°C / 185°F<sup>2</sup>
- Maximum Forward Differential Pressure: 0.34 MPa / 50 psi

#### Performance Characteristics

- Total metal ion exchange capacity<sup>3</sup>  
AB1: greater than 41 meq,
- Maximum recommended flow  
AB1: < 30 L/min
- Maximum service life: 6 months

#### Recommended Application

- The IonKleen AQHT Purifier is recommended for removing trace metal ions from hot rinse water.

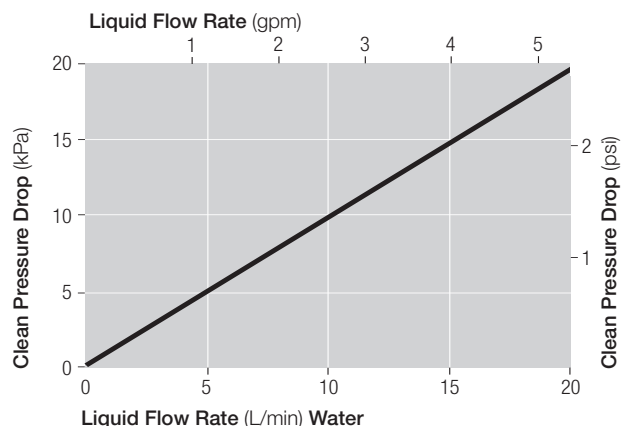
<sup>1</sup> Kalrez is Registered trademarks of DuPont Performance Elastomers.

<sup>2</sup> For dissolved oxygen levels of ≤10 ppb.

<sup>3</sup> Typically >90% efficient as determined using a mixed ion challenge, including Na, Fe, Cu, Ca, Al and Zn, at typical influent concentrations of 1 ppb or less

## Pressure Drop vs. Liquid Flow Rate

### AB1 Style Filter



## Part Numbers/Ordering Information

Part Number	Nominal Length (mm / in)	Configuration Code	O-Ring Connections <sup>3</sup>
AB1HUPW7EH1	254 / 10	7	FEP Encapsulated fluoroelastomer
AB1HUPW8EH1	254 / 10	8	FEP Encapsulated fluoroelastomer
AB1HUPW3EH1	254 / 10	3	FEP Encapsulated fluoroelastomer
AB2HUPW7EH1	508 / 20	7	FEP Encapsulated fluoroelastomer
AB2HUPW8EH1	508 / 20	8	FEP Encapsulated fluoroelastomer
AB2HUPW3EH1	508 / 20	3	FEP Encapsulated fluoroelastomer
AB3HUPW7EH1	762 / 30	7	FEP Encapsulated fluoroelastomer
AB3HUPW8EH1	762 / 30	8	FEP Encapsulated fluoroelastomer
AB3HUPW3EH1	762 / 30	3	FEP Encapsulated fluoroelastomer

<sup>3</sup> Other O-ring material options are available as special orders.

Specifications and availability: The information provided in this literature was reviewed for accuracy at the time of publication.

Product availability may be subject to change without notice.

For current information, consult your local Pall distributor or contact Pall Corporation directly.

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