



# Aquasart Plus

Membrane Filter Cartridge for Food & Beverage Application



## Product Description

Aquasart Plus filter cartridges feature a high-performance, double-layer pleated hydrophilic polyethersulfone membrane. Specially developed for the filtration of water and non-carbonated drinks. Aquasart Plus filter cartridges guarantee the highest biological product safety in combination with enhanced total throughput performance.

## Applications

Aquasart Plus membrane filter cartridges are used for final filtration prior to bottling for products, such as the following:

- Non-carbonated water
- Near-water beverages

## Product Performance

Aquasart Plus filter cartridges incorporate a special double layer membrane. This new combination, coarse prefilter membrane followed by a 0.2 µm final membrane, has been developed to meet the demanding process requirements in terms of high total throughput performance. In combination with an optimally designed prefilter, Aquasart Plus achieves maximum service life performance and minimizes filtration costs.

## Safety

Aquasart Plus filter cartridges guarantee highest microbiological safety, which can be checked before and after every use with an integrity test.

## Quality

Aquasart Plus membrane filters are designed and manufactured according to an ISO 9001 certified quality management system. All raw materials which are used to produce Aquasart Plus are in accordance with EU regulation 1935/2004/EC or are listed in the Regulations (EU) No. 10/2011 relating to plastic materials and article intended to come into contact with food. All used materials meet FDA requirements.

## Specifications

### Materials of Construction

Prefilter Membrane:	Polyethersulfone, asymmetric
Endfilter Membrane:	Polyethersulfone, asymmetric
Support Fleece:	Polypropylene
Core:	Polypropylene
End Caps:	Polypropylene
O-Rings:	Silicone (optional EPDM or Viton)

### Pore Size

0.45 µm + 0.2 µm

### Available Sizes | Filtration Area

Size 3	30"	1.8 m <sup>2</sup>   19.4 ft <sup>2</sup>
Size 4	40"	2.4 m <sup>2</sup>   25.9 ft <sup>2</sup>

### Available Adapters Cartridges

25, 28

### Operating Parameters

Max. Allowable Differential Pressure:	5 bar   72.5 psi at 20°C
	2 bar   29 psi at 80°C
Max. Allowable Back Pressure:	2 bar   29 psi at 20°C
Steaming cycles:	min. 100

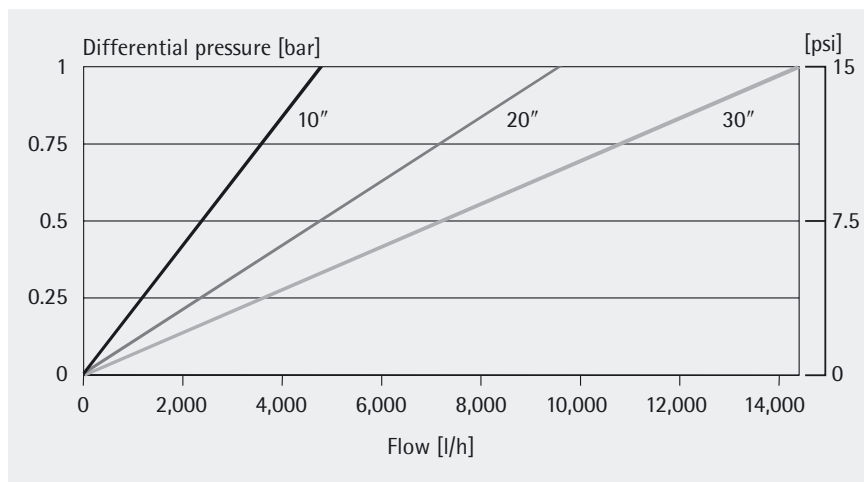
## Specifications

### Compatibility

Aquasart Plus filter cartridges fulfill all requirements of the current USP for "Sterile Water for Injection". This includes testing for Toxicity according to USP Plastic Class VI Test.

Aquasart Plus filter cartridges are fully suitable for use in the food & beverage industry pH-compatibility: pH 1 to pH 14.

Water Flow Rates for 10", 20" and 30" Cartridges



## Order Information

Order Code	Pore size [µm]	Pack size [Pieces]	Test Pressure [bar   psi]	Max. Diffusion [ml/min]	Min. Bubble Point [bar   psi]
<b>Standard Cartridges</b>					
538**07H3	0.2	1	2.5   36	54	3.2   46
538**07H4	0.2	1	2.5   36	72	3.2   46

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 Publication No.: SGK2012-e11081  
 Order No.: 85032-540-72  
 Ver. 08 | 2011