

LOFDISC Filter Modules

Filter media either pure cellulose / diatomaceous earth or activated carbon

Removal ratings from 0.2 – 35 µm

High mechanical and chemical stability



Application Examples:

Wine, beer, fruit juice, mineral water, beverages, pure water, pre-filter for protection of membrane filter systems, pharmaceuticals, cosmetics, chemicals, lacquers

Performance Specifications: Type 3-AC

Retention Ratings: 0.2 µm - 35 µm @ 99.6%

Maximum Differential Pressure: 2.5 bar

Maximum Working Temperature: 80° C

Sterilization Temperature /Time 121°C / 20 min

pH Operating Range: 4 - 10

Type 4-AC

0.2-35 µm @ 99.6%

2.5 bar

80° C

121°C / 20 min

4 - 10

Type 3-AC-16-AK

Maximum Differential Pressure: 2.5 bar @ 25°C

Maximum Working Temperature: 80°C

Sterilization Temperature /Time: 121°C / 20 min

Weight of Carbon: 1200g

pH Operating Range: 4 - 10

Type 4-AC-16-AK

2.5 bar @ 25°C

80°C

121°C / 20 min

2400 g

4 - 10

Product Specifications:

Filter Medium:	4 mm Alpha grade cellulose and Diatomaceous Earth or activated carbon	
Support Cage & Frame:	Polypropylene (FDA 21 CFR 177.1520 and European Pharmacopoeia in accordance with § 3.1.3 and 3.1.6)	
Metal Straps:	316 Stainless Steel	
Scrim Cover:	Reinforced Polypropylene	
Gaskets:	Silicone	
Number of Cells:	16	16
Surface Area / Module:	1.8 m ²	3.6 m ²
Outside Diameter:	300 mm	400 mm
Inside Diameter:	50 mm	50 mm
Height:	275 mm	275 mm



Sterilisation:

LOFDISC filter modules can be sterilized:

- In an autoclave at 121°C for 20 minutes
- With steam (1 bar) for 20 minutes in a closed filter housing
- Chemically, though not very common. A non oxidizing media must be applied if this method is used.

Rinse Procedures:

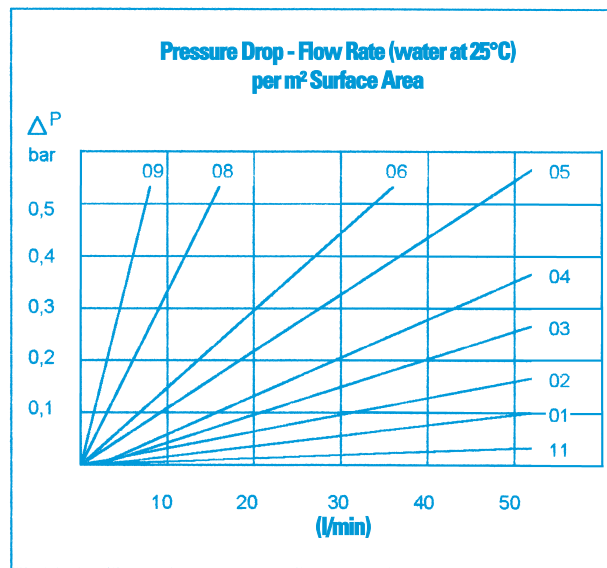
For wetting and removal of air and other particles, pre-washing of the filter unit (filter housing and module) with high purity water is necessary.

Cold water: 110 l per module through the system one time

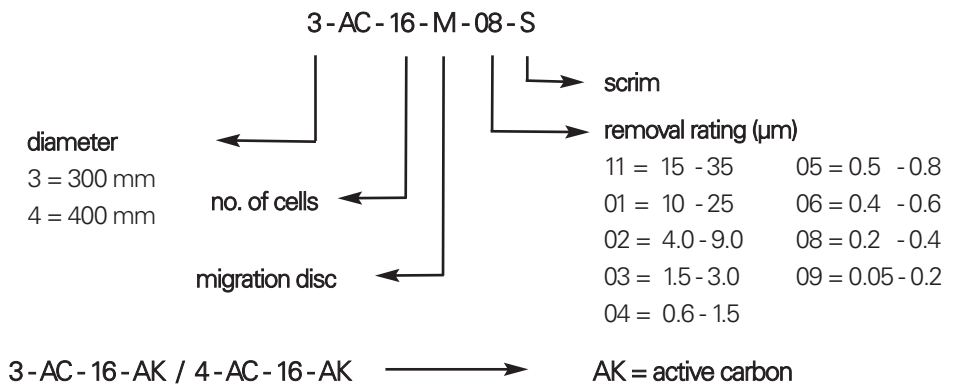
Hot water: 20 l per module to be circulated for 30 minutes

Where water isn't compatible with the product to be filtered use either an acceptable solvent or filtered product recirculated several times.

Liquid Flow Specifications:



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