

Filter cartridge amaFine BC



amafilter – LFC Lochem (Filtration Group Process Systems) amaFine BC uses a specially designed polyethersulphone membrane. The filter membrane has an asymmetrical configuration where the specific defining matrix is embedded between two matrices with larger pores. The asymmetrical configuration and the protection of the sterile zone against mechanical damage are perfectly combined in a unique design to allow a filter cartridge with a high degree of integrity.

Features

- Designed for safe and reliable sterile filtration
- Polyethersulphone is resistant to attacks by oxidizing agents in pure water
- Extended effective filtration area
- Testable in-situ
- Steamable in situ or in autoclave
- Construction materials chemically and biologically inert
- Manufacturing in clean room, class 10,000 according cGMP guidelines
- Absolute filter ratings
- 100% integrity tested in clean room, class 100

Cartridge filter housing

Filtration Group supplies a wide range of cartridge filter housings in different materials, dimensions and models to meet your demands.

For detailed information about bag filter housings, please see the respective data sheets or visit www.ama-lfc.com



Typical application

- Pure water processes
- Fine chemicals

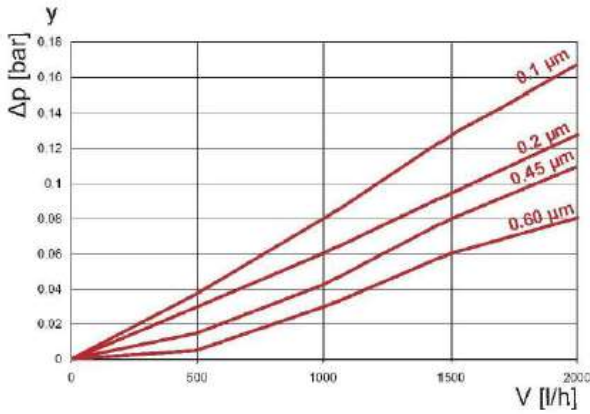
Standard Specification

- Filter medium: polyethersulphone membrane
- Support medium: polyester
- Hardware: polypropylene
- Longitudinal weld: ultrasonic welding
- External diameter: 70 mm
- Micron rating: 0.1, 0.2, 0.45, 0.65 µm
- Length: 10", 20", 30" or 40 inch
- End-cap seal: thermally welded
- Gaskets/O-rings: silicone or EPDM
- Filtration area: 0.7 m²/10" cartridge
- Design pressure: 5.0 bar at 25 °C
- Operating pressure: 2.0 bar at 25 °C
- Maximum operating temperature: 65 °C (continuous)
- Recommended rinse-up volume is 3 liter per 10" length cartridge
- Sanitisation with hot water at max. 82 °C for 1 hour
- Steam sterilization 20 hours (cumulative) at 125 °C with cycles of 30 minutes

Customer support

Filtration Group can support you regarding the chemical compatibility of the filter media and give advice to select appropriate product.

→ www.ama-lfc.com



V: Flow rate [l/h]
 y: dP Clean pressure drop [bar]

Ordering information

Example	1	2	3	4	5	6
	BC0.2-20U-X7S					
1 Cartridge type	=	amaFine BC				
2 Micron rating [μm]	=	0.1, 0.2, 0.45, 0.65				
3 Nominal length [inch]						
	10	=	254 mm			
	20	=	508 mm			
	30	=	762 mm			
	40	=	1016 mm			
4 Hardware material						
	U	=	polypropylene			
5 Cartridge style						
	X3	=	SOE with external 222 O-rings			
	X7	=	SOE with fin end, bayonet and external 226 O-Rings			
	X8	=	SOE with fin end and external 222 O-Rings			
6 O-ring material						
	S	=	silicone			
	E	=	EPDM			

SBR20181123

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