

Brother Max-Pleat A Series



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With 6-inch large diameter and coreless design, Max-Pleat A expands effective filtration area significantly. The improved EFA (effective filtration area) will impress you by sharply decreased **change-out frequency** and obviously smaller **operation footprint**.



Features – High Flow Rate

- > 6" diameter, large geometry
- > Larger filtration surface leads to higher flow rate, lower delta pressure and longer service life. Consumable cost and labor expense will be saved.
- > Multi-application suitability covers Cooling Water Filtration, RO Pre-filtration, Seawater Desalination, Amine Circulation Filtration and kinds of chemical solution filtration.



Features – Cost Saving

- > High flow capacity reduces upfront capital cost
- > Up to 40 times fewer cartridges to change out
- > Up to 50% smaller filter system possible
- > Handle design leads to much faster, easier filter changeout



Features – High Dirt Holding Capacity

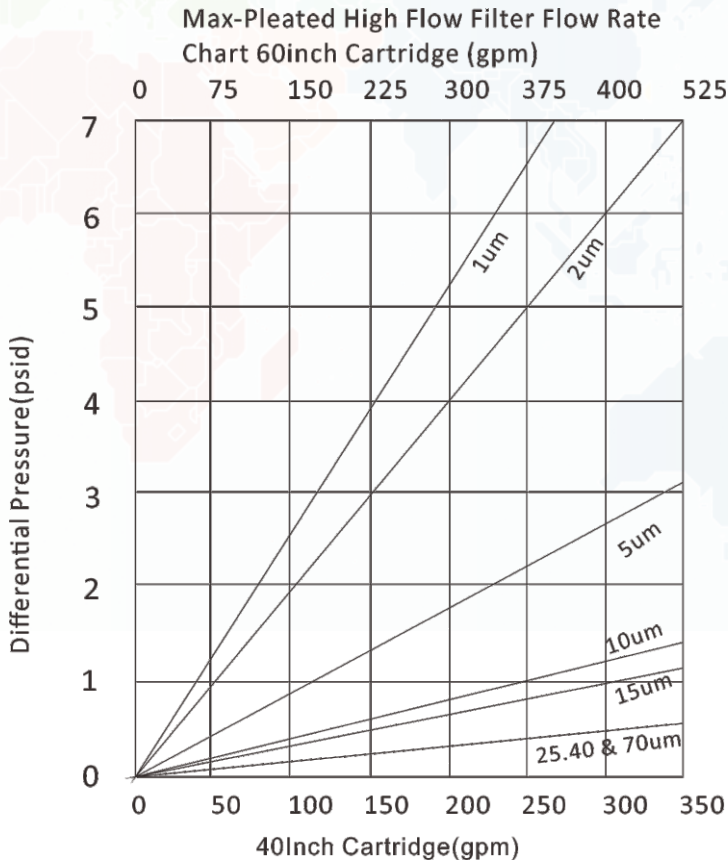
- > Depth pleated structure combines multiple filtration medias brings higher dirt holding capacity and absolute retention efficiency.
- > Inside-out flow pattern design holds most debris in and prevents housing pollution.

Specification

Retention Rating	1, 3, 5, 10, 20, 40 µm Absolute	Recommended Change-out Differential Pressure	2.1 bar a 20 °C
Outer Dimension	6" (152 mm)	Maximum Flow Rate	40" (1,016 mm) 78 m3/hr 60" (1,524 mm) 113 m3/h
Length	40" (1,016 mm) 60" (1,524 mm)	Core/Cage	Polypropylene
Max Operating Temperature	80°C (180 °F) (High temperature required, pls consult Brother sale person)	Outside	Netting/304 SS/ Strength Polypropylene Cage
O-Ring	EPDM, VITON, Silicone, Teflon Encapsulated	Filter Media	Depth Type Multimedia Polypropylene



Flow Rate & Pressure Drop:



Typical Application

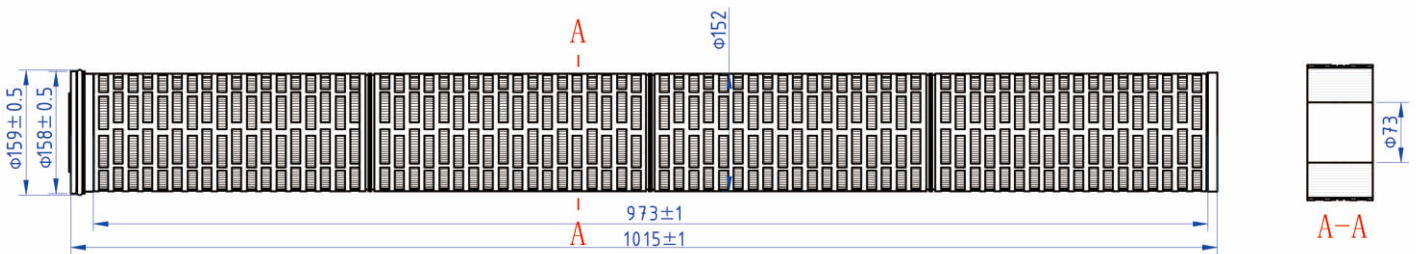
- Power Condensate System
- Municipal Water
- Chemical
- Petrochemicals
- Electronics (RO Prefiltration, Process Water)
- Food & Beverage (process Water)
- Pharmaceutical (process water)
- Waste Water

Medium Type	Absolute Liquid Removal Rating (Microns) at 99.98% efficiency by particle count	Element Pressure Drop 20inch length (psid/US gpm/mbard/m3hr)	Element Pressure Drop 40inch length (psid/US gpm/mbard/m3hr)	Element Pressure Drop 60inch length (psid/US gpm/mbard/m3hr)
Melt	20.0	0.001/0.304	0.0005/0.152	0.0003/0.091
Polypropylene	3.2	0.0108/3.278	0.0054/1.639	0.0037/1.123
Microfiber	4.5	0.0046/1.396	0.0023/0.698	0.0015/0.455
Media	10.0	0.0046/1.396	0.0017/0.516	0.0011/0.334
	20.0	0.0024/0.728	0.0012/0.364	0.0008/0.243
	40.0	0.0014/0.556	0.0007/0.278	0.0005/0.146
	100.0	<0.001/<0.292		

Note:

The test procedure used is an adaptation of ISO 4572, modified to determine the micron size above which particles are quantitatively removed.

Pressure drop in PSID per US gpm for the cartridge length shown. Multiply this value by the total system flow to determine the aqueous pressure drop. Next for High Flow filter only; it must be added to the pressure drop due to the Brother High Flow Filter Housing.

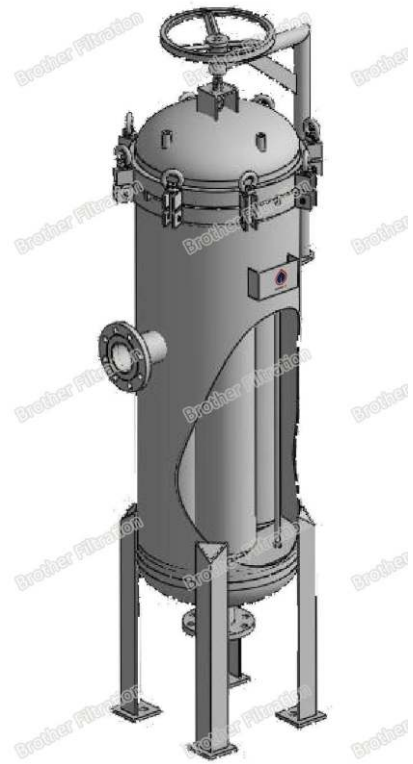


Unit:mm

Ordering Information

<p>MAHF</p> <p>Cartridge Design</p>	<p>P</p> <p>Media P=Polypropylene G=GlassFiber</p>	<p>050</p> <p>Removing Rating 010=1um 030=3um 050=5um 100=10um 200=20um 400=40um 700=70um</p>	<p>40</p> <p>Length 40=40inch 60=60inch</p>	<p>E</p> <p>O ring Material E=EPDM V=Fluororubber S=Silicon N=Buna-N rubber</p>
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Max A High Flow Housing



in-line horizontal configuration eliminates the need for a platform, or ladder, to remove the filters from the housing

a platform may be needed to easily remove filters from vertical vessels, which may be more appropriate when floor space is limited.

Vertical and horizontal forms both available

Specification:

Standards	ASME, section VIII, division 1 code
Maximum differential pressure across tube sheet	75 psid (5.2 bar) maximum
Standard housing gasket:	spiral wound 304 stainless steel mineral fiber
Carbon steel exterior surfaces:	sandblasted and coated with an inorganic zinc
Vent and drains:	1 inch FNPT
Corrosion allowance:	1/8 inch

Instructions:

To install a filter element, remove the element hold down plate by lifting it off the locating pins.

Lubricate the O-ring on the open-end of the filter with a compatible fluid, and slide the closed end of the filter into the perforated cage, which is welded to the tubesheet. Seat the elements in place by pressing down on the open-end of the filter until the element is snug in the tubesheet.

This provides a seal between the filter and housing via the filter O-ring.

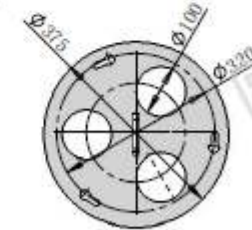
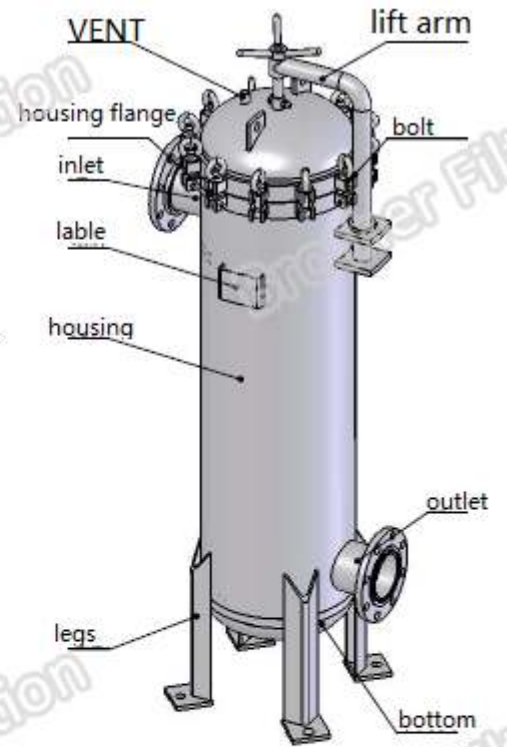
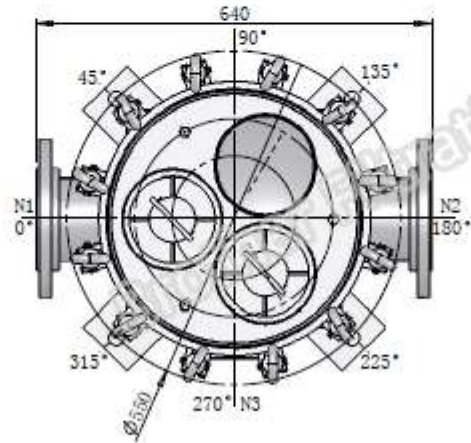
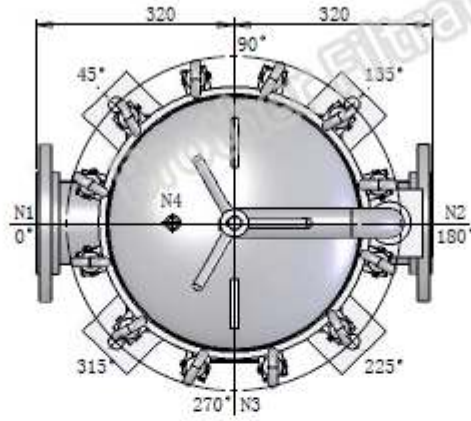
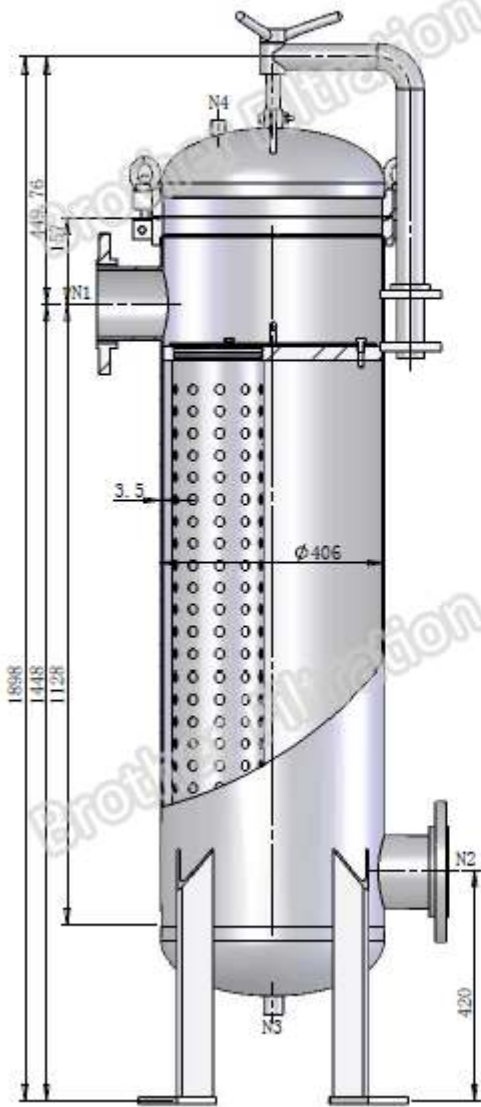
The open-end cap must be below the tubesheet surface.

After installing all the filter cartridges, reinstall and secure the element hold down plate by guiding it over the locating pins on the tubesheet.

The purpose of the hold down plate is to prevent the elements from becoming dislodged in the event of reverse flow.

A filter element tool is provided with each housing to aid with the installation and removal of the filter cartridges.

This tool eliminates the need for an operator to reach within the filter vessel to either remove or install the filters.



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:		CORNER AND BREAK SHARP EDGES	
		mm			
NAME	SIGNATURE	DATE			

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