

E Flow ABSO-EARTH

AEA Type

Major Applications

Clarification of food and beverages

Example)

Syrup, Beer, Wine, Green tea,
Vinegar, Soy sauce, etc.



Quality standards

- Adaptable Food Sanitation Standard
 - FDA 21CFR
- Heat sterilization durability
 - Hot water
90 °C (194°F) x 30 minutes x 180 cycles
 - Steam
121 °C (249.8°F) x 30 minutes x 10 cycles

Features

- Filter material composed of glass fiber and cellulose fiber with fine and high porosity including diatomaceous earth
- Compact and lightweight cartridge filter with a large filtration area due to RAMP construction and unique construction.

Advantages

- Effectively removes colloidal matter, which is also a component of turbidity
- Reduces microorganisms that cause food spoilage
- Long service life even for fluids with a large amount of particulate
- Reduces CO₂ emissions to 1/3 compared to equivalent conventional filters
- Reduces filter replacement workload
- Reduces filter waste after use

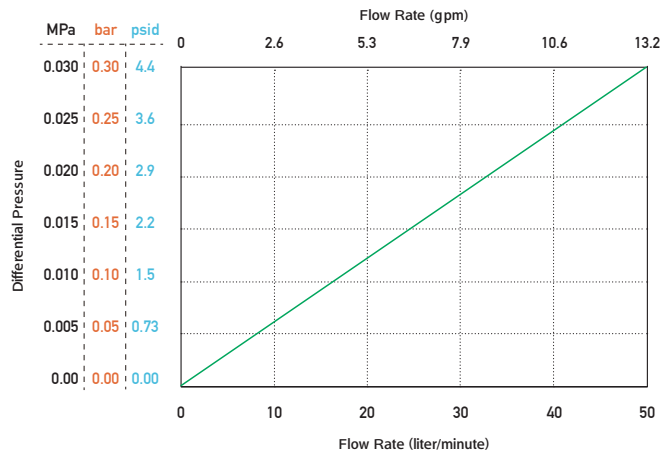
Specifications

Micron Ratings		0.4 μm
E.F.A.		1.53m ²
Media		Pre: Glass Fiber, Polypropylene, Diatomaceous Earth Main: Cellulose, Polyester, Diatomaceous Earth
Materials	Support	Polypropylene
	Core/Cage/End Cap	Polypropylene
	Gasket	Silicone
Maximum ΔP		0.49MPa at 20°C (71psi at 68°F)
Maximum Operating Temp		80°C (176°F)
Dimen- sions	Length	269.0mm
	O.D.	190.0mm
	I.D.	51.5mm
Recommended flushing volume (Refined water/ Filter 1pc)		30L/min for 5 minutes

*If you need further information on specifications (length, end cap type, etc.), please contact us.

Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Filter 1pc



Particle Removal Efficiency

Particle Size (μm)	Particle Removal Efficiency (%)
0.4	99.9
0.8	>99.9
1.0	>99.9

Test Conditions

Equipment : Liquid Particle Counter
 Filtration : Single Pass
 Fluid : Refined Water
 Flow Rate : 14 L/min (Per filter)
 Dust : Alumina + Boehmite

Microbial removal performance

Biological Indicator	LRV [*]
<i>Lactobacillus brevis</i> (NBRC3345)	6
<i>Alicyclobacillus acidoterrestris</i> (NBRC108913)	6

*LRV represents Log Reduction Value (Refer to JIS K3835)

*Bacterial challenge level for *Lactobacillus brevis* is more than 1×10^7 cfu/cm².

Bacterial challenge level for *Alicyclobacillus acidoterrestris* is more than 1×10^6 cfu/cm²

Ordering Information

10E - AEA - 004 S

Ordering Unit

4 pcs *4 pcs per box.

Handle mechanism for easy filter replacement



Dedicated housing for E Flow Filter Cartridge

EFH Type

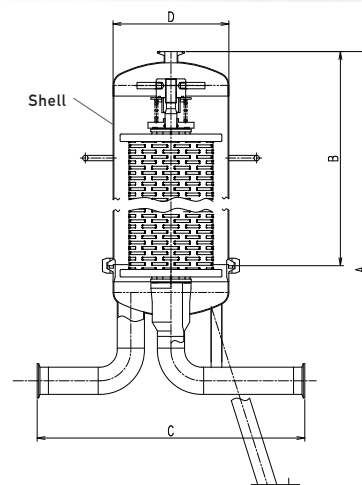
- Sanitary type
- Compact design
- Customized specifications available upon request



Specifications

Installed filter cartridge	E Flow Filter
Materials	Body (Main parts)
	SUS304
	O-Ring
	Silicone, PTFE
Surface Treatment	Inner and outer surface buffing (#400)
Design pressure	0.69MPa (100psi)
Design Temperature	80°C (176°F)
Connection diameter	IN · OUT
	2S (IDF Ferrule)
	Air Vent
	1S (IDF Ferrule)

*Please contact us if you require materials other than the above, number of filters to be installed, connection diameter, connection shape, connection position, etc.



Dimension / Weight / Capacity

Part number	Dimention (mm)				Weight (kg)		Capacity (L)
	A	B	C	D	Overall	Shell	
1-EFH-01-S	795	380	500	216.3	29.0	4.5	16.0
2-EFH-01-S	1064	649	500	216.3	31.4	6.9	25.0
3-EFH-01-S	1333	918	500	216.3	33.8	9.3	34.6
3-EFH-01-S-A	1333	(Upside) 380 (Downside) 538	500	216.3	37.4	(Upside) 4.5 (Downside) 6.8	34.5

*Please contact us if you require materials other than the above, number of filters to be installed, connection diameter, connection shape, connection position, etc.

Ordering Information

Number of filter stages

3



- 1 = 1pc
2 = 2pcs
3 = 3pcs

- EFH -01 - S -

Option

A



None = Standard specification

A = Shell split type

*Only 3 filter stages are available

*The contents of the catalog are subject to change without notice.

*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

*When purchasing a filter housing, be sure to check whether the filtration conditions (fluid, operating temperature, operating pressure, installation location, etc.) are within the housing specifications.

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Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

Scope

Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



4th Issue

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