

## 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

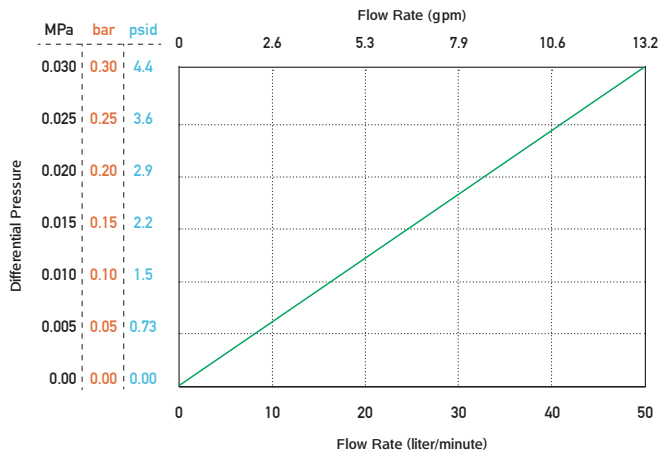
- Effectively removes colloidal matter, which is also a component of turbidity
- Reduces microorganisms that cause food spoilage
- Long service life even for fluids with a large amount of particulate
- Reduces CO<sub>2</sub> emissions to 1/3 compared to equivalent conventional filters
- Reduces filter replacement workload
- Reduces filter waste after use

## Specifications

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

## 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 <sub>99.9%</sub>
<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  $1 \times 10^7$  cfu/cm<sup>2</sup>.

Bacterial challenge level for *Alicyclobacillus acidoterrestris* is more than  $1 \times 10^6$  cfu/cm<sup>2</sup>

## 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

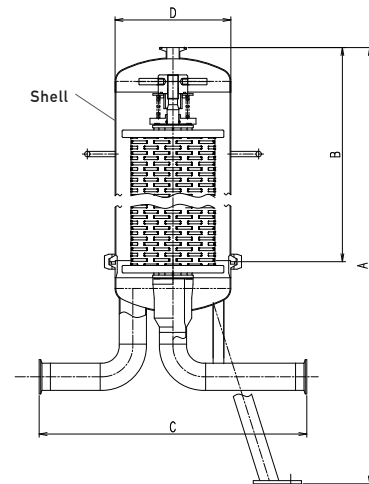
## EFH Type

- 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.



3rd Issue

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