### AEB BREWING



## **BREW FREE C**

Pleated media in heat-sealed polypropylene



#### **Technical characteristics**

- Thermo-welded polypropylene filter with multilayer media, with no electric charge
- Porosity  $\leq$  0.6  $\mu$ m, with absolute particle degree ß 5000
- Wide compatibility with regenerating and sanitizing products
- Food grade

≤0,6µm

• Configuration suitable for frequent chemical regeneration

#### **Retention efficiency**

Particle removal efficiency is established with the Beta ratio (B):

Number of particles upstream of filter

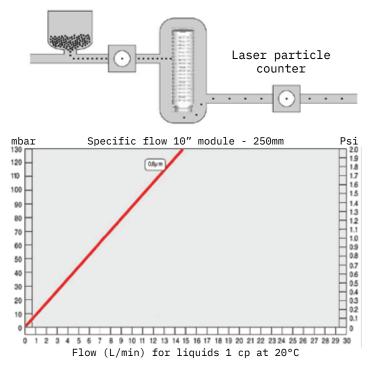
Number of particles downstream of filter

The **BREW FREE C** filter cartridges are all validated with  $\beta$  5000 efficiency, which corresponds to a 99.98% particle retention.

	DOWNSTREAM PARTICLES	RATIO	ß	EFFICIENCY
	50.000	100.000 50.000	2	50%
PARTICLES	5.000	100.000 5.000	20	95%
= 100.000	1.000	<u>100.000</u> 1.000	100	99%
units	100	100.000 100	1.000	99,9%
	20	<u>100.000</u> 20	5.000	99,98%

#### Validation

The particulate retention efficiency of the **BREW FREE C** filter elements is randomly tested, by performing a destruction filtration test, with a suspension of ACFTD (AC Fine Test Dust) standard particles and using in-line laser particle counters, according to ISO 4572 procedure.



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Terminal	with	no	internal	cavity.
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Weldings made for heavy duty applications, with high temperature and pH excursions.

The tolerance between cage and pleated filter media allows dilatation during thermal excursions.



Detail of the welding, excluding "traps" or fluid retention, dangerous for process filtration.



Construction suitable for backflush regeneration.



The stainless steel ring is a reinforcement used to maintain the size of the attachment. It can be removed for disposal purposes.



Filter pleats	Heat-sealed pleated polypropylene, multi-layer progressive porosity
Support and drainage layers	Polypropylene microfiber
Internal and external cage	Polypropylene
Terminal supports	Polypropylene
Reinforcing ring	Stainless steel aisi 316L
Standard 'O' rings	Silicone
Material coupling	Thermo welding

#### **Operational data**

Filter surface	0.40 m² (4,3 ft²) for a 250 mm module (10")
Max operating temperature	80°C
Max Δp operating at 20°C	5 Bar (72,5 psi)
Max Δp at 121°C with steam	0,3 Bar (4,3 psi)

# Regeneration and hygienization

**BREW FREE C** filter elements can be repeatedly regenerated also in backflush, with hot water max 80°C, sterilized with steam up to 121°C. They can also be used in hot caustic cycle, even with peroxide.

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