

MAHLE

Industry

Cricketfilter®

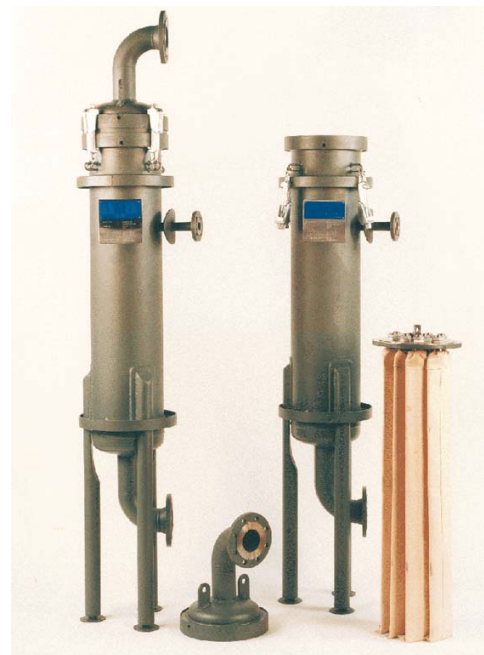
For polish/heel filtration of edible oil

1. Introduction

For polish and/or heel filtration MAHLE designed a special range of Cricketfilter®. This small Cricketfilter® is our standard solution for safety and polishing filtration since more than a decade, with more than 150 filters installed worldwide.

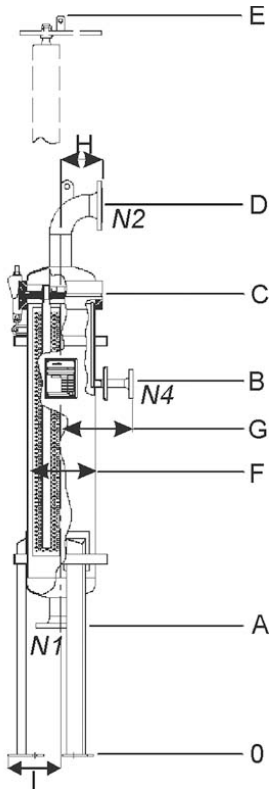
The Cricketfilter® is a pressure filter with a large specific filtration area due to the shape of the filter elements and is unique because of its patented filter elements, which allow discharge of the filter cake by back pulsing. This filter can be used in the various safety and polishing filtration steps, for example with crude oil, bleaching clay, deodorisation, winterisation, hydrogenation, post-bleaching. This Cricketfilter® can also be used for heel filtration steps, for example at hydrogenation and batch bleaching.

The Cricketfilter® elements are made from stainless steel and mounted on a septum plate, which is clamped between the cover and the tank. The filter cloth is selected to suit the filtration needs of the application. The Cricketfilter® for polish / heel filtration is easily regenerated by back washing and can be automated completely. The Cricketfilter® itself has no rotating parts, keeping maintenance to a minimum.



2. Features

- Large specific filtration area through use of patented Cricketfilter® elements
- Less labour costs due to the possibility to automatize operation
- Clean work floor around the Cricketfilter®
- No consumption of filterbags (no waste)
- Easy operating
- Quick cover closure with clamping bolts



3. Standard design data

Material tank 273W/406W	: stainless steel
Material tank 508W	: carbon steel or stainless steel
Material filter elements	: stainless steel
Design pressure	: -1 / 6 bar(g)
Design temperature	: -10 / 150 °C (depending on filter cloth)
Max. allowable pressure drop	: 4.5 bar
Design and approval	: PED 97/23/EC on request with ATEX Ex II 3 G T4
Filter cloth	: PPS (needle felt)
Filter cloth	: polypropylene other types of cloth on request

Delivery from stock or at short notice.

Connections

N1 Feed/Drain	: DN80 PN16
N2 Filtrate outlet	: DN80 PN16
N3 Vent	: DN25 PN40

4. Product specifications

Model	Filter area [m ²]	Filter elements	Cake volume [dm ³]	Vessel volume [dm ³]	Empty weight [kg]
273W-2.3/1000-35	2.3	10	12	70	95
273W-3.5/1500-35	3.5	10	18	100	130
406W-4.5/1000-35	4.5	19	22	165	170
406W-6.6/1500-35	6.6	19	33	195	215
508W-7/1000-35	7.0	31	35	265	260
508W-10.7/1500-35	10.7	31	53	295	315

Dimensions [mm]									
Model	A	B	C	D	E	F	G	H	I
273W-2.3/1000-35	515	1500	1850	2215	2978	273	290	165	210
273W-3.5/1500-35	515	2000	2350	2715	3078	273	290	165	210
406W-4.5/1000-35	500	1500	1805	2215	2980	406	355	233	287
406W-6.6/1500-35	500	2000	2350	2715	3080	406	355	233	287
508W-7/1000-35	500	1520	1870	2260	3004	508	400	285	313
508W-10.7/1500-35	500	2020	2370	2760	4004	508	400	285	313

Dimensions and weight for reference only.

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