

# MAHLE

*Driven by performance*

Dust filter cartridge

160 NKC

Ø 160 mm, installation on cleaned side

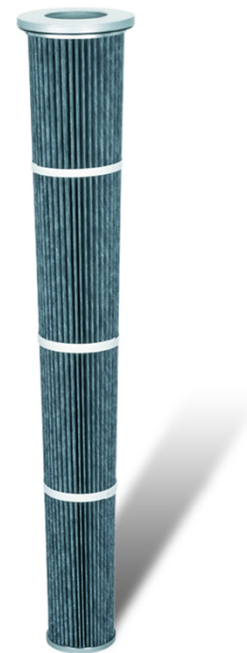
## 1. Features

This MAHLE Industriefiltration GmbH cartridge meets modern demands for waste reduction and sustainability. Thanks to the reusable inner frame, only plastics parts that are suitable for incineration need to be exchanged if the cartridge is replaced. All metal parts can be reused again. The cartridge can optionally also be supplied with a fixed (non-reusable) inner frame. Star-pleated MAHLE dust filter cartridges are used to separate dust from gases. The conical cartridge is perfused from outside to inside. The retained dust is cleaned by an air jet pulse. The cartridge performance has been enhanced by the improved cleaning properties and the optimized flow conditions resulting from its conical design.

Regular, extensive material and performance tests are the key to the consistently high quality of MAHLE dust cartridges. Application tests both on the customer's site and in our own facilities form the backbone of affordable and reliable products. The results of these tests form the backbone of innovative products, mature production methods and unmatched operational reliability.

### Characteristics

- Very high loading capacity
- High stability
- Excellent cleaning properties
- Optimized flow conditions
- Universally suitable
- Large filter surface
- Wide range of optimized filter media
- Optimized energy efficiency
- Worldwide distribution



## 2. Technical Data

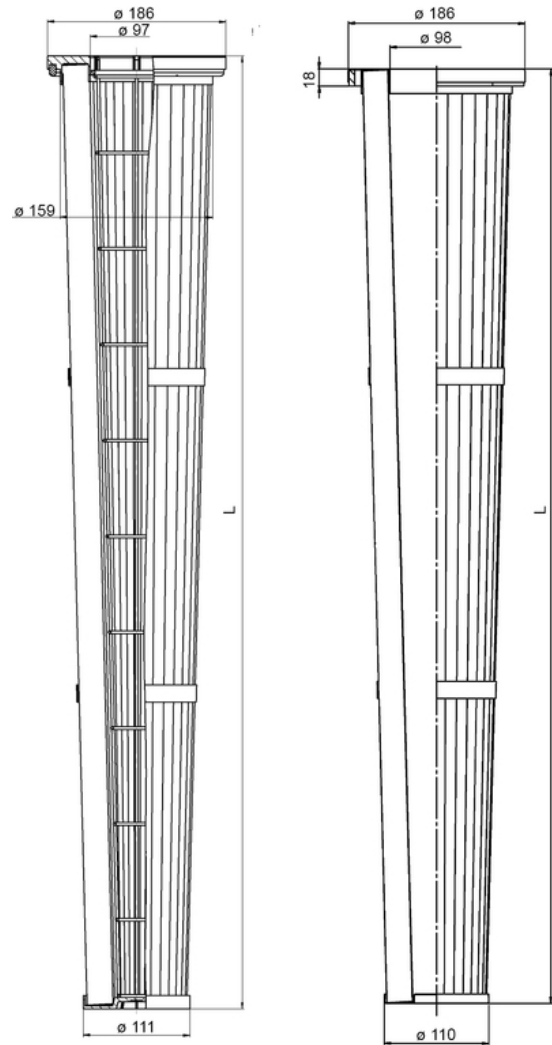
### Materials

<b>Inner core:</b>	Galvanized steel (standard) or stainless steel V4A - AISI 316
<b>End caps:</b>	PA66 GF25 (Standard) or stainless steel V4A - AISI 316
<b>Seal:</b>	EPDM or silicone foam
<b>Filter media</b>	Ti 07 - Electrically conductive polyester fleece with PTFE membrane Ti 08 - Electrically conductive polyester fleece Ti 15 - Polyester fleece Ti 19 - PP meltblown microfibre with support liner Other filter materials on request

### Cleaning

<b>Nozzle:</b>	Multi-jet nozzle G ¾
<b>Cleaning pressure:</b>	4 bar to 6 bar (max. 7 bar)
<b>Differential pressure:</b>	max. 18 mbar
<b>Compressed air consumption per cleaning pulse:</b>	23 l (fad)
<b>Compressed air reservoir capacity:</b>	approx. 5 l per cartridge

Technical data is subject to change without notice!



## 3. Type number key and dimensions

### 3.1 Type number key

Type						
	Series		Filter media			
		Filter surface		Material		
			Design			
852	953	Ti 07	-2.5	V4A	-	Example

### 3.2 Dimensions

Type designation	Length L [mm]	Filter surface [m²]	max. vol. flow* [m³/h]	Start pressure loss** [pa]	max. operating temp.*** [°C]	Remark
852 029	600	1.5/2.2	225	> 250	100	Encapsulated inner frame
852 953	1000	2.5/3.5	360			
852 828	1200	3.0/4.2	430			
852 653	1000	2.5/3.5	360			Reusable inner frame

\* Depending on the air to media ratio of 1.7 m³/m² min

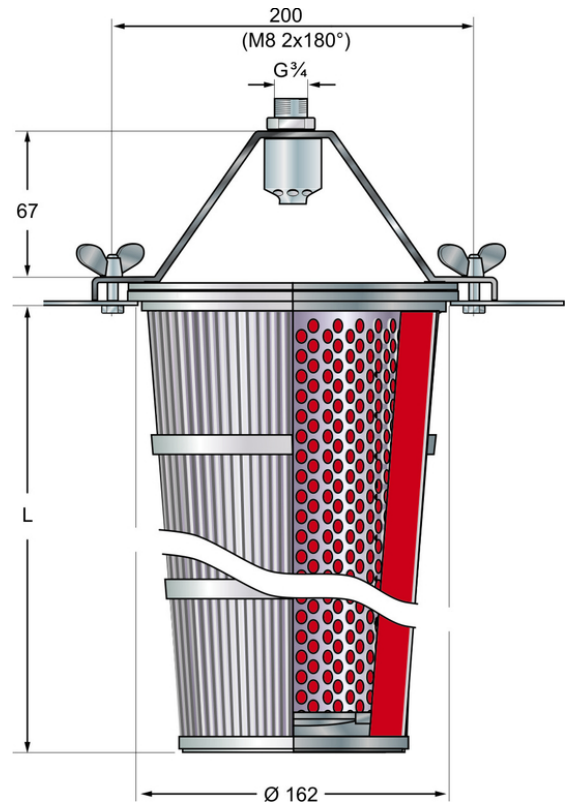
\*\* Depending on volume flow and filter

\*\*\* Depending on media/materials, higher temperature ranges on request

## 4. Installation

The dust filter cartridge is fastened to the filter plate on the cleaned side by means of retainers.

A hole with a diameter of 162 mm must be drilled in the filter plate.



## 5. Accessories

Order number	Designation
79741240	MJD 16 00 clean gas A1 VP
70390250	MJD 16 00 clean gas V2 VP
70343824	Nozzle M 16 3/4, aluminium OZB
70366440	Nozzle M 16 3/4, 1.4301 OZB

## 6. Cleaning

We recommend cleaning the dust filter cartridge with the MAHLE multi-jet nozzle. The optimized geometry of the multi-jet nozzle guarantees excellent cleaning results with a significantly lower noise level.

The multi-jet nozzle is available from MAHLE in aluminium or stainless steel. It can also be purchased as part of the MAHLE MJD cleaning unit, comprising the nozzle, a stirrup and various small assembly components. The stirrup maintains an optimum distance from the cartridge to ensure maximum cleaning efficiency.



## 7. Design

Please contact us for detailed technical information, any open questions and for general expert advice. Completion of the relevant questionnaire would facilitate in the coordination of all important parameters.

Comprehensive documentation on our product range, cleaning units and cartridges can be provided.

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