

MDB-2F

CENTRAL FILTER SYSTEM WITH FAN

The MDB-2F is a self-cleaning filter unit with integrated extraction fan. It contains two self-cleaning polyester filter cartridges. Pressure controlled automatic cleaning system, resulting in the particulate dropping into a collection container at the bottom of the unit.



APPLICATIONS

The MDB-2F is intended to be used for the following applications:

- MIG-MAG/GMAW welding
- TIG welding
- FCAW welding
- stick/MMAW welding



Do **not** use the MDB-2F for the following applications or in the following circumstances:

- arc-air gouging
- aluminium laser cutting
- oil mist
- heavy oil mist in welding fume
- extraction of aggressive fumes and gases (e.g. from acids, from alkaline, from soldering paste containing lithium)
- extraction of hot gases (more than 45°C/113°F continuously)
- grinding aluminum and magnesium
- flame spraying
- extraction of cement, saw dust, wood dust etc.
- sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids
- explosive environments or explosive substances/gases



SPECIFICATIONS

Physical dimensions and properties

Material (housing):	electro-zinc coated steel (according to DIN EN 10152)
• steel grade	• DC01+ZE
• steel grade no.	• 1.0330

Colour:	
• housing	• black RAL 9005
• cover plates	• yellow RAL 1004

Weight (net) incl. filter cartridges	210 kg (463 lbs)
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Fan motor design	IEC
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Filter cartridges

Type	CART-D
Material	polyester fibres
Shape	cylinder
Filter surface area	2 x 15 m ² (2 x 161.5 ft ²)
Filter class	• M • MERV 11

Performance

Fan type	radial
Working range	1000-1600 m ³ /h (600-950 CFM)
Available static pressure (after deduction of pressure drop of CART-D and housing)	<ul style="list-style-type: none"> • 1000 Pa at 1000 m³/h (4 in. WG at 600 CFM) • 400 Pa at 1600 m³/h (1.6 in. WG at 950 CFM)

Electrical data

Power consumption	1,1 kW (1.5 HP)
Connection voltage:	
• Europe	• 400V/3~/50Hz
• USA	• 480V/3~/60Hz
• Canada	• 600V/3~/60Hz
Nominal current:	
• 230-400V/3 ~/50Hz	• 4,25/2,45 A
• 240-480V/3 ~/60Hz	
• 600V/3 ~/60Hz	
Protection class	IP 55 (motor and electronics)

Ambient conditions

Operating temperature:	
• min.	• 5°C (41°F)
• nom.	• 20°C (68°F)
• max.	• 45°C (113°F)
Max. relative humidity	75%
Outdoor use allowed	yes, if protected against rain
Storage conditions	<ul style="list-style-type: none"> • 5-45°C (41-113°F) • relative humidity max. 75%

Where used

FlexHood systems

Order information

Article number:	
• 400V/3~/50Hz	• 0000100829
• 480V/3~/60Hz	• 0000100830
• 600V/3~/60Hz	• 0000100831
Number/package	1

Shipping data

Gross weight (incl. pallet)	
Packing dimensions	

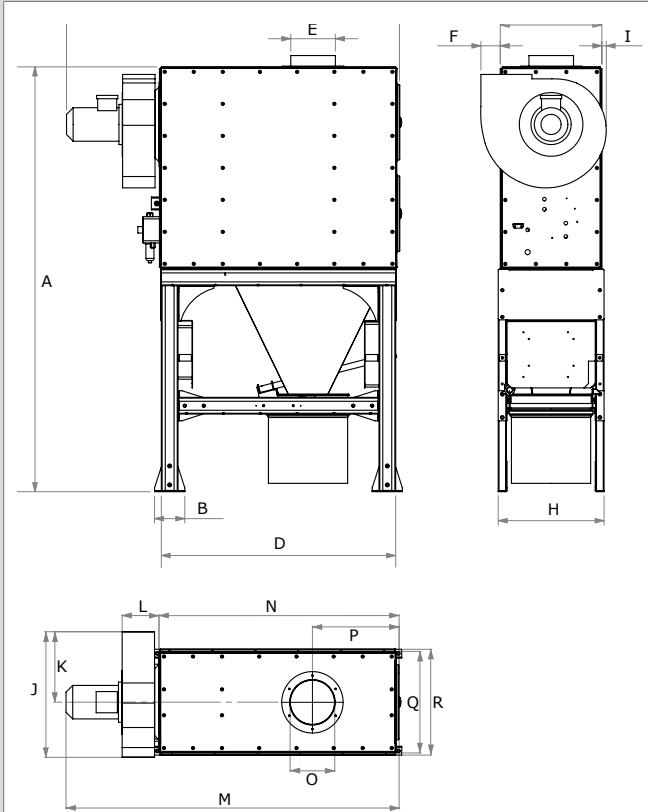
Harmonized Tariff Code	8421.39.2090
Country of origin	Netherlands

APPROVALS/CERTIFICATES



ref. UL-508A

DIMENSIONS



	mm	inch		mm	inch
A	1903	74.9	J	562	22.1
B	135	5.3	K	316	12.4
C	1492	58.7	L	165	6.5
D	1050	41.3	M	1491	58.7
E	Ø 200	Ø 7.9	N	1076	42.4
F	87	3.4	O	Ø 200	Ø 7.9
G	455	17.9	P	388	15.3
H	474	18.7	Q	455	17.9
I	20	0.8	R	474	18.7

FEATURES

Module with two filter cartridges



Integrated fan



40 litre hopper design dustbin



Product type

MDB-2F

Article no.

refer to order information

Product category

central filter systems

Version

180214/I

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