

## MDB-4F

### CENTRAL FILTER SYSTEM WITH FAN

The MDB-4F is a self-cleaning filter unit with integrated extraction fan. It contains four 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.

The MDB-4F features a frequency inverter.



#### APPLICATIONS

The MDB-4F 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-4F 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	339 kg (747 lbs)
Fan motor design	IEC

##### Filter cartridges

Type	CART-D
Material	polyester fibres
Shape	cylinder
Filter surface area	4 x 15 m <sup>2</sup> (4 x 161.5 ft <sup>2</sup> )
Filter class	• M • MERV 11

##### Performance

Fan type	radial (TEV-585)
Working range	1600-3750 m <sup>3</sup> /h (950-2200 CFM)
Available static pressure (after deduction of pressure drop of CART-D and housing)	<ul style="list-style-type: none"> <li>• 1600 Pa at 1600 m<sup>3</sup>/h (6.4 in. WG at 950 CFM)</li> <li>• 1300 Pa at 2500 m<sup>3</sup>/h (5.2 in. WG at 1475 CFM)</li> <li>• 800 Pa at 3500 m<sup>3</sup>/h (3.2 in. WG at 2050 CFM)</li> <li>• 550 Pa at 3750 m<sup>3</sup>/h (2.2 in. WG at 2200 CFM)</li> </ul>

##### Electrical data

Power consumption	2,2 kW (3 HP)
Connection voltage	600V/3~/60Hz
Nominal current	3.1 A
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"> <li>• 5-45°C (41-113°F)</li> <li>• relative humidity max. 75%</li> </ul>

##### Options and accessories

SAS-315 straight	duct silencer
SAS-315 elbow 90°	duct silencer
TOL-315	outlet transition from square to round

##### Where used

Multiple arm systems (max. 3-4 arms in use simultaneously)

FlexHood systems

##### Order information

Article number	0000100836
Number/package	1

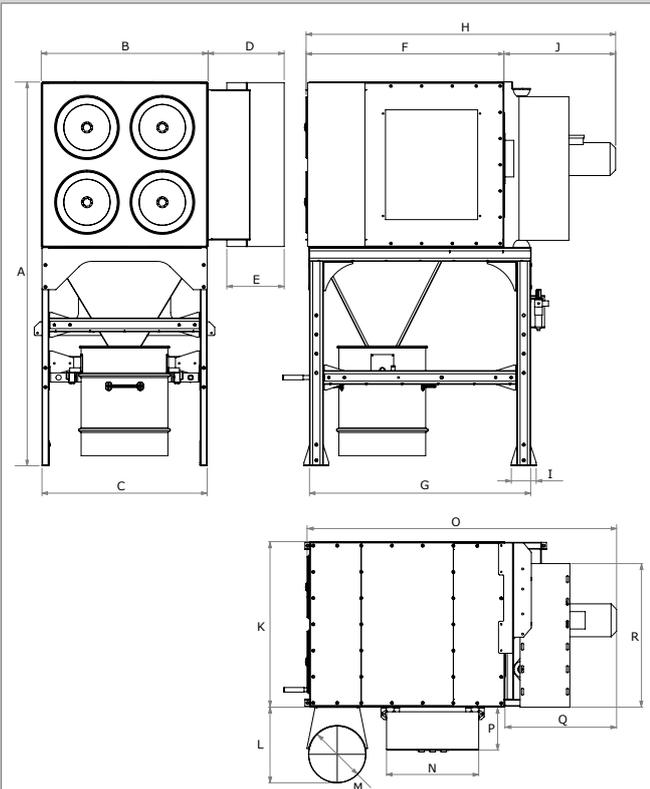
### ■ Shipping data

Gross weight (incl. pallet)	425 kg (551 lbs)
Packing dimensions (L x W x H)	1800 x 1480 x 2320 mm (70.9 x 58.3 x 91.3 in.)
Harmonized Tariff Code	8421.39.2090
Country of origin	Netherlands

### APPROVALS/CERTIFICATES

	
	ref. UL-508A

### DIMENSIONS



	mm	inch		mm	inch
A	2098	82.6	J	606	23.9
B	905	35.6	K	905	35.6
C	896	35.3	L	413	16.3
D	413	16.3	M	Ø 315	Ø 12.4
E	Ø 315	Ø 12.4	N	500	19.7
F	1024	42.3	O	1679	66.1
G	1250	49.2	P	235	9.3
H	1679	66.1	Q	606	23.9
I	135	5.3	R	785	30.9

### FEATURES

Module with four filter cartridges



Integrated fan



Control box incl. frequency inverter



90 litre hopper design dustbin



Product type

**MDB-4F**

Article no.

0000100836

Product category

central filter systems

Version

J

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