

MDB-4F

CENTRAL FILTER SYSTEM WITH FAN

The MDB-4F is a self-cleaning filter unit with integrated extraction fan. When the pressure over the filter reaches a certain point, the internal self-cleaning mechanism begins to clean the filter cartridges by means of compressed air shots, 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)	polyester coated sheet metal
Colour:	
• housing	• black RAL 9005
• panels	• 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 ² (4 x 161.5 ft ²)
Filter class	• M • MERV 11



Performance

Fan type	radial (TEV-585)
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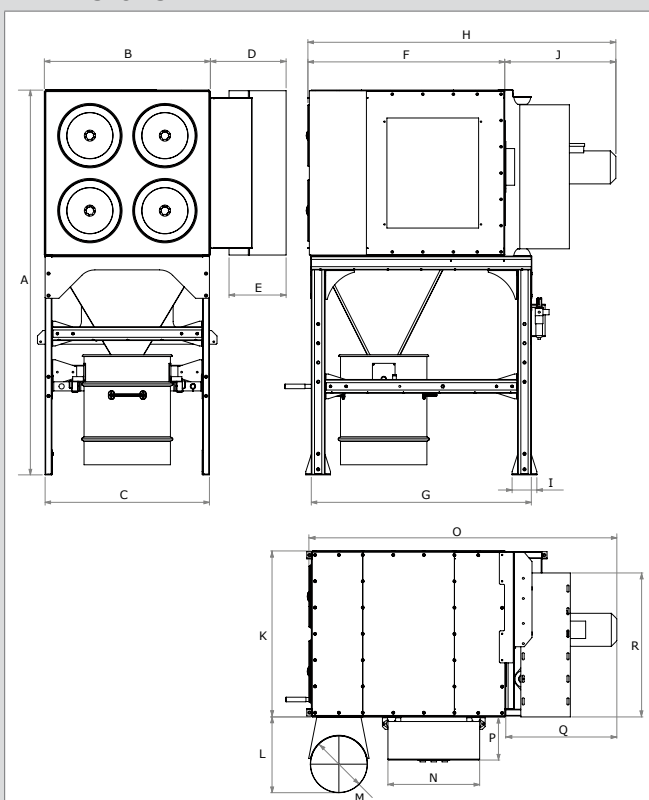
Working range	1600-3750 m ³ /h (950-2200 CFM)
Available static pressure (after reducing pressure drop of Cart-D and housing)	<ul style="list-style-type: none"> • 1600 Pa at 1600 m³/h (6.4 in. WG at 950 CFM) • 1300 pA at 2500 m³/h (5.2 in. WG at 1475 CFM) • 800 Pa at 3500 m³/h (3.2 in. WG at 2050 CFM) • 550 Pa at 3750 m³/h (2.2 in. WG at 2200 CFM)
Electrical data	
Power consumption	2,2 kW (3 HP)
Connection voltage:	<ul style="list-style-type: none"> • Europe • USA • Canada
Default setting:	<ul style="list-style-type: none"> • Europe • USA • Canada
Nominal current:	<ul style="list-style-type: none"> • Europe • USA • Canada
Protection class	IP 55 (motor and electronics)
Ambient conditions	
Operating temperature:	<ul style="list-style-type: none"> • min. • nom. • max.
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%
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:	<ul style="list-style-type: none"> • 400-480V/3~/50-60Hz • 9430-1211 • 600V/3~/60Hz • 9430-1101
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	Sweden

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

Cartridge modules	
Integrated fan	
Control box incl. frequency inverter	
90 litre hopper design dustbin	

Product type

MDB-4F

Article no.

refer to order information

Product category

central filter systems

Version

030211/G

Always check the latest version on www.plymovent.com.