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:	1
 MIG-MAG/GMAW welding 	1

- TIG welding
- FCAW welding
- stick/MMAW welding

Do **not** use the MDB-4F for the following applications

6

- arc-air gougingaluminium laser cutting
- oil mist

product data sheet

• heavy oil mist in welding fume

or in the following circumstances:

- 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)
- \bullet 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 • cover plates	• black RAL 9005 • yellow RAL 1004				
Weight (net) incl. filter cartridges	339 kg (747 lbs)				
Fan motor design	IEC				
Filter cartridges					
Туре	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)				

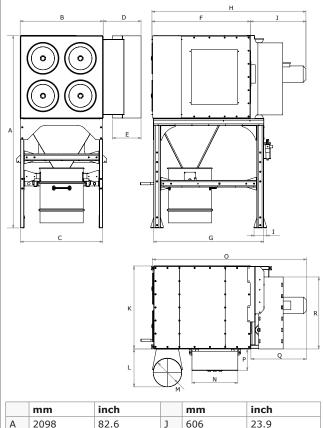
Working range	1600-3750 m³/h (950-2200 CFM)			
Available static pressure (after deduction of pressure drop of CART-D and housing)	 1600 Pa at 1600 m³/h (6.4 in. WG at 950 CFM) 1300 Pa at 2500 m³/h (5.2 in. WG at 1475 CFM) 800 Pa at 3500 m³/h (3.2 in. WG at 2050 CFM) 550 Pa at 3750 m³/h (2.2 in. WG at 2200 CFM) 			
Electrical data	1			
Power consumption	2,2 kW (3 HP)			
Connection voltage: • Europe/USA • Canada	• 400-480V/3~/50-60Hz • 600V/3~/60Hz			
Default setting: • Europe • USA • Canada	• 400V • 480V • n/a			
Nominal current: • Europe • USA • Canada	• 8.0 A • 4.6 A • 3.1 A			
Protection class	IP 55 (motor and electronics)			
Ambient conditions	A			
Operating temperature: • min. • nom. • max.	• 5°C (41°F) • 20°C (68°F) • 45°C (113°F)			
Max. relative humidity	75%			
Outdoor use allowed	yes, if protected against rain			
Storage conditions	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: • 400-480V/3~/50-60Hz • 600V/3~/60Hz	• 0000100835 • 0000100836			
Number/package	1			
Shipping data				
Gross weight (incl. pallet)	425 kg (551 lbs)			
Packing dimensions $(L \times W \times H)$	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

CE	
c UL us	ref. UL-508A

DIMENSIONS



		men			men
А	2098	82.6	J	606	23.9
В	905	35.6	К	905	35.6
С	896	35.3	L	413	16.3
D	413	16.3	М	Ø 315	Ø 12.4
E	Ø 315	Ø 12.4	Ν	500	19.7
F	1024	42.3	0	1679	66.1
G	1250	49.2	Р	235	9.3
Н	1679	66.1	Q	606	23.9
I	135	5.3	R	785	30.9

FEATURES



Product type Article no. Product category Version MDB-4F refer to order information central filter systems 130513/H

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