PLYM IVENT®

clean air at work

MFS

MOBILE WELDING FUME EXTRACTOR

The MFS is a mobile filter unit with integrated fan that provides extraction and filtration for use with a flexible extraction arm or extraction hose.

The MFS features an aluminum spark arrester and a round cellulose filter cartridge. This filter cartridge is provided with a precoat to extend the lifespan and the efficiency of the filter. The MFS is fitted with a *RoboClean* system for automatic sectionwise cleaning of the filter cartridge by (externally supplied) compressed air. The dust and dirt particles end up in the dust tray underneath the unit.

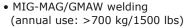
Thanks to the four transport wheels (two of which are swivel casters), the MFS is extremely suitable to be used in relatively small facilities or near sources of pollution without a fixed location.

Extraction arm/hose to be ordered separately.



APPLICATIONS

The MFS is intended to be used for the following applications:





- FCAW welding (annual use: >700 kg/1500 lbs)
- stick/MMAW welding (annual use: >500 kg/1100 lbs)

Do **not** use the MFS 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	polypropylene	
Colour: • Filter cover and control panel cover • Base	• yellow RAL 1028 • grey RAL 7024	
Weight (net)	105 kg (231 lbs)	
Supply cable	6 m (20 ft) without plug	
Filters		
Material: • Pre filter • DuraFilter FCC-30	aluminium cellulose/polyester fibres + polyurethane + metal	
Filter surface area: • Pre filter • DuraFilter FCC-30	• 0,14 m² (1.5 ft²) • 30 m² (325 ft²)	

Treatment	SurfacePlus precoat on DuraFilter FCC-30
Efficiency: • Pre filter • DuraFilter FCC-30	• 65%<80% • >99,9%
Filter class: • Pre filter • DuraFilter FCC-30	• G2 according to DIN EN 77 • M according to NEN EN IEC 60335-2-69
RoboClean filter clear	ning system
Required compressed air quality	dry and oil-free according to ISO 8573-3 class 6
Required pressure	4-5 bar (1600-2000" WG)
Compressed air connection	quick connect coupling ¼ in
Compressed air consumption	max. 60 nl/min. (depending on the degree of saturation the filter)
Duration off-line cleaning cycle	approx. 1 hour
■ Performance	
Fan type	radial
Unrestricted airflow	2400 m ³ /h (1413 CFM)
Net extraction capacity	1250 m ³ /h (736 CFM)
Speed	2800 rpm
Noise level	69 dB(A) according to ISO 3746
■ Electrical data	
Power consumption	0,75 kW (1 HP)
Available connection voltages	115V/1~/50Hz; 230V/1~/50H 230V/3~/50Hz; 400V/3~/50H 230V/3~/60Hz
Insulation class	F
Protection class	IP 50
Ambient conditions	
Operating temperature: • min.	• 5°C (41°F) • 20°C (68°F)
nom.max.	• 45°C (113°F)

Outdoor use allowed	no	
Storage conditions	• 5-45°C (41-113°F)	
	• relative humidity max. 80%	
■ Product combinations		
Flex-3/4, UltraFlex-3/4	extraction arm	
SUS-5/203	extraction hose	
■ Scope of supply		
Mobile unit - Hose 65 cm - Hardware		
■ Order information		
Article numbers:	 MFS 115V/1~/50Hz MFS 230V/1~/50Hz MFS 230V/3~/50Hz MFS 400V/3~/50Hz MFS 230V/3~/60Hz 	
Number/package	1	
■ Shipping data		
Gross weight (incl. pallet)	135 kg (298 lbs)	
Packing dimensions	120 x 80 x 120 cm (47.2 x 31.5 x 47.2 in.)	
Max. number/pallet	1	
Harmonized Tariff Code	8421.39.2090	
Country of origin	the Netherlands	

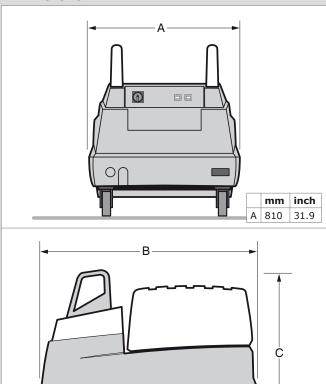
■ Approvals/certificates	
CE	
KEMA	certificate no. 98.3271.01 (issued March 23, 2000)
	EMC 89/336/EEC: certificate no. 83271-KRQ/ EMC 98-4666 (issued October 30, 1998)
RoHS	Directive 2011/65/EC (RoHS) valid as of 8 June 2011
	Keymark CEN/CENELEC certificate no. 98.3271.02 (issued March 23, 2000)
KEMA- EV GS Exchange	certificate no. 4900025.02 (issued June 29, 2000)

FEATURES

RoboClean automatic filter cleaning system



DIMENSIONS



 mm
 inch

 B
 1210
 47.6

 C
 1020
 40.2

oduct type

Article no. refer to order information

Product category portable/mobile welding fume extractors

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