MFD

MOBILE WELDING FUME EXTRACTOR

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

The MFD features an aluminum spark arrester and a square disposable cellulose filter cartridge. This filter cartridge is provided with a precoat to extend the life span and increases initial operating efficiency of the filter. A filter pollution indicator indicates when filter replacement is required.

Thanks to the four transport wheels (two of which are swivel casters), the MFD 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

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The MFD is intended to be used for t	he following
applications:	

- MIG-MAG/GMAW welding
- (annual use: <700 kg/1500 lbs)
- TIG welding
- FCAW welding (annual use: <700 kg/1500 lbs)
- stick/MMAW welding (annual use: <500 kg/1100 lbs)

Do **not** use the MFD 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)	90 kg (198 lbs)
Supply cable	6 m (20 ft) without plug
Filters	
Material: • Pre filter • DuraFilter FCC-50	 aluminium cellulose/polyester fibres + polyurethane + cardboard
Filter surface area: • Pre filter • DuraFilter FCC-50	• 0,5 m² (5.38 ft²) • 50 m² (538 ft²)

Treatment	SurfacePlus precoat on DuraFilter FCC-50	
Efficiency: • Pre filter • DuraFilter FCC-50	• 80%<90% • >99%	
Filter class: • Pre filter • DuraFilter FCC-50	 G3 according to DIN EN 779 M according to NEN EN IEC 60335-2-69 	
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~/50Hz; 230V/3~/50Hz; 400V/3~/50Hz; 230V/3~/60Hz; 230V/1~/60Hz	
Insulation class	F	
Protection class	IP 50	
Ambient conditions		
operating temperature: • min. • nom. • max.	• 5°C (41°F) • 20°C (68°F) • 45°C (113°F)	
Max. relative humidity	80%	
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	
Available options		
FAC-50	activated carbon filter	



TRK-MFD	transformer/relay kit (in case	
	of WL or WL+AST in	
	connected extraction arm)	
Scope of supply		
Mobile unit - Hose 65 cm - Hardware		
Order information		
Article numbers:		
• 7028100000	• MFD 115V/1~/50Hz	
• 7022110000	• MFD 230V/1~/50Hz	
• 7023100000	• MFD 230V/3~/50Hz	
• 7025100000	• MFD 400V/3~/50Hz	
• 7025120000	• MFD 400V/3~/60Hz	
• 7023120000	• MFD 230V/3~/60Hz	
• 7022120000	• MFD 230V/1~/60Hz	
Number/package	1	
Shipping data		
Gross weight (incl. pallet)		
Packing dimensions	120 x 80 x 105 cm	
	(47.2 x 31.5 x 41.3 in.)	
Max. number/pallet	1	
Harmonized Tariff Code	8421.39.2090	
Country of origin	the Netherlands	

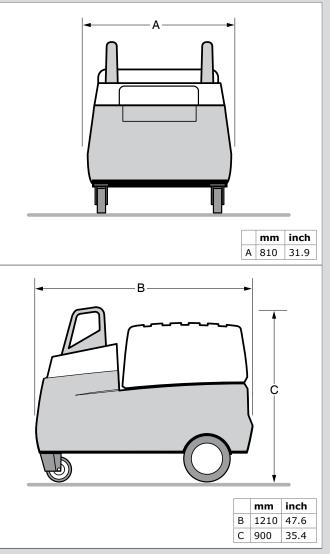
Approvals/certificates	
CE	
KEUR	certificate no. 98.3271.01 (issued March 23, 2000)
NEUR	EMC 89/336/EEC: certificate no. 83271-KRQ/ EMC 98-4666 (issued October 30, 1998)
RoHS 2002/95/EC	EU Directive 2002/95/EC (RoHS) (valid as of July 2006)
	Keymark CEN/CENELEC certificate no. 98.3271.02 (issued March 23, 2000)
KEMA- EV EU EU EU EU	certificate no. 4900025.02 (issued June 29, 2000)

FEATURES

Large filter surface area

Large filter surface area	
Filter pollution indicator on control panel	





Product type
Article no.
Product category
Version

MFD

refer to order information portable/mobile welding fume extractors 220311/D

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