PLYMOVENT ®

clean air at work

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.

product data sheet

APPLICATIONS

The MFD is intended to be used for the 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

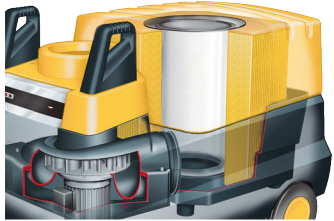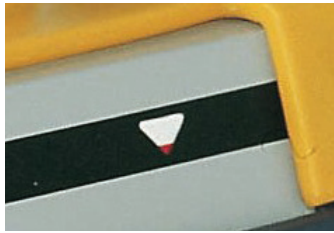|	
Material housing	polypropylene
Colour: • Filter cover and control panel cover • Base	 • yellow RAL 1028 • grey RAL 7024
Weight (net)	82 kg (181 lbs)
Supply cable	6 m (20 ft) without plug

■ Filters

Material: • Pre filter • DuraFilter FCC-50	 • aluminium • phenol impregnated cellulose + 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 m³/h (1413 CFM)
Net extraction capacity	1250 m³/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	refer to order information
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
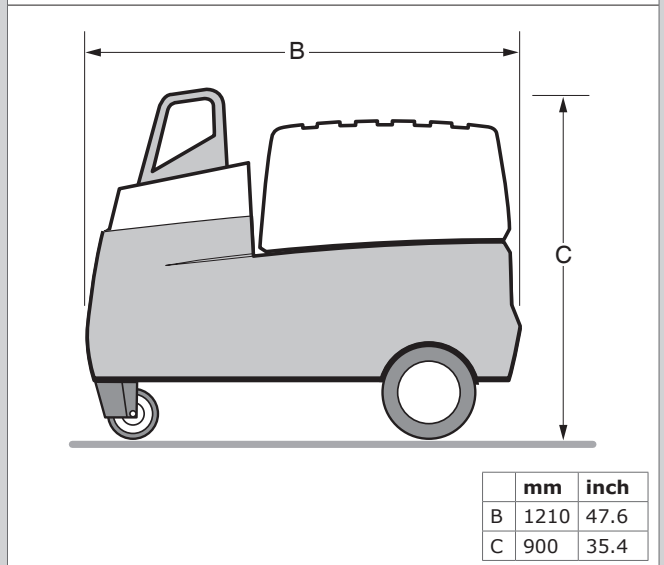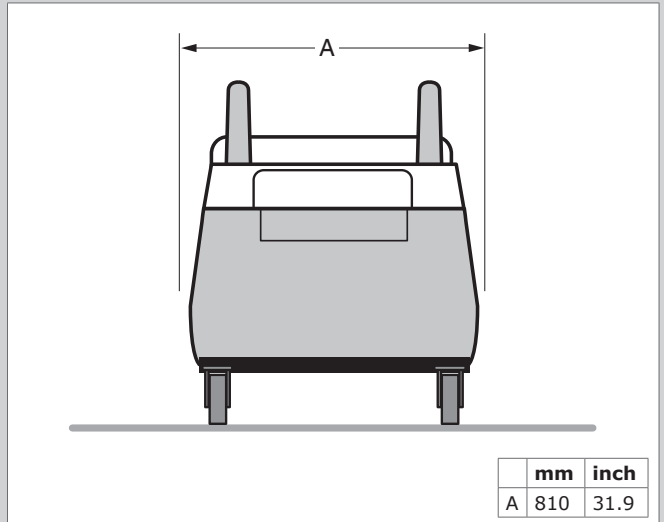
FAC-50	activated carbon filter

TRK-MFD	transformer/relay kit (in case of WL or WL+AST in connected extraction arm)

■ Scope of supply

Mobile unit - Hose 65 cm (25.6 in.) - Hardware

■ Order information

Article numbers:	MFD:
• 7028100000 • 0000102345 • 7022110000 • 7022120000 • 7023100000 • 7025100000 • 7025120000	• 115V/1~/50Hz • 115V/1~/60Hz • 230V/1~/50Hz • 230V/1~/60Hz • 230V/3~/50Hz • 400V/3~/50Hz • 400V/3~/60Hz
Number/package	1

■ Shipping data

Gross weight (incl. pallet)	103 kg (227 lbs)
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	
RoHS	Directive 2011/65/EC (RoHS) valid as of 8 June 2011

FEATURES

Large filter surface area	
Filter pollution indicator on control panel	

DIMENSIONS

	mm	inch
A	810	31.9

	mm	inch
B	1210	47.6
C	900	35.4

Product type	**MFD**
Article no.	refer to order information
Product category	portable/mobile welding fume extractors
Version	290319/J

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