

PHV

PORTABLE WELDING FUME EXTRACTOR

The PHV is a portable high vacuum welding fume extractor. It is equipped with two motors and an automatic start/stop device. The extracted welding fume first passes a metal pre-separator and then goes through the Dura-H main filter with integrated aluminium pre filter. The air leaves the unit through a HEPA filter. An activated carbon filter can be installed as an option.

With its wheels, the handle and its compact design the machine is extremely suited to be used in relatively small workshops, in confined spaces or near sources of pollution without a fixed location. The PHV can be switched on/off manually or automatically.

The IFA-W3 certified PHV-I version is additionally provided with a filter pollution indicator and sound signal.



APPLICATIONS

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

- MIG-MAG/GMAW welding
- TIG welding
- FCAW welding
- stick/MMAW welding



SPECIFICATIONS

Physical dimensions and properties

Material housing	polypropylene
Colour:	
• Base + top cover	• grey RAL 7024
• Filter cartridge + wheel covers	• yellow RAL 1028

Weight (net)	18,6 kg (41 lbs)
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Supply cable	
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Filters

Material:	
• Pre filter	• aluminium + neoprene
• Dura-H main filter	• cellulose fibres + cardboard + aluminium
• HEPA filter	• cellulose fibres with polypropylene housing
• FAC HV (option)	• polyester fibres with activated carbon

Filter surface area:	
• Pre filter	• 0,037 m ² (0.4 ft ²)
• Dura-H main filter	• 12 m ² (129.2 ft ²)
• HEPA filter	• 0,4 m ² (4.3 ft ²)
• FAC HV (option)	• 0,073 m ² (0.79 ft ²)

Efficiency:	
• Pre filter	• 65% < 80%
• Dura-H main filter	• >95% (particle size: 0,3 µm)
• HEPA filter	• >99,5% (particle size: 0,3 µm)

Filter class:	
• Pre filter	• G2 according to DIN EN 779
• Dura-H main filter	• H10 according to DIN EN 1822
• HEPA filter	• H12 according to DIN EN 1822

Performance

Max. extraction capacity	• speed LOW: 160 m ³ /h • speed HIGH: 230 m ³ /h
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Noise level according to ISO 3746

- speed LOW: 63 dB(A)
- speed HIGH: 70 dB(A)

Electrical data

Power consumption	2 x 1000 W
Available connection voltages	115V/1~/50Hz; 230V/1~/50Hz; 115V/1~/60Hz; 230V/1~/60Hz
Protection class	IP 50
Insulation class	F
Stop delay	15 seconds

Ambient conditions

Operating temperature:	
• min.	• 5°C (41°F)
• nom.	• 20°C (68°F)
• max.	• 45°C (113°F)
Max. relative humidity	80%
Outdoor use allowed	no
Storage conditions	• 5-45°C (41-113°F) • relative humidity max. 80%

Available options

FAC-HV	activated carbon filter
MBH	wall bracket
HCH-45	hose connection
NKT, NKC	nozzle kit
EN-20	funnel nozzle
EN-40	slit extraction nozzle
H2.5/45, H5.0/45	extraction/exhaust hose
CP-45	connection piece

Scope of supply



Portable welding fume extractor - Extraction hose 2,5 m (8.2 ft)/Ø 45 mm (1.8 in.) incl. connection piece - Spare carbon brush (4)

Order information

Article number:	
• 7608001400	• PHV 115V/1~/50Hz
• 7603001400	• PHV 230V/1~/50Hz
• 0000102462	• PHV 115V/1~/60Hz
• 7603001500	• PHV 230V/1~/60Hz
• 7603101400	• PHV-I 230V/1~/50Hz

Number/package	1
■ Shipping data	
Gross weight	22 kg (48½ lbs)
Packing dimensions	460 x 400 x 790 mm (18½ x 17¾ x 31½ in.)
Max. number/pallet	15
Harmonized Tariff Code	8421.39.2090
Country of origin	the Netherlands

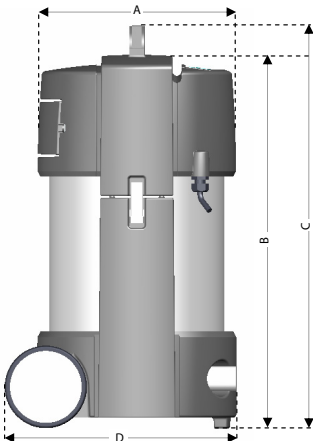
APPROVALS/CERTIFICATES

	
W3 compliant	according to EN ISO 15012-1:2013
	Directive 2011/65/EC (RoHS) valid as of 8 June 2011

FEATURES

Standard wheel set	
Automatic start/stop device controlled by mass cable of welding machine	

DIMENSIONS



Technical drawing of a vertical industrial unit, showing dimensions A, B, C, and D. The unit has a cylindrical body with a top section and a bottom section. Dimension A is the width of the top section. Dimension B is the height of the main cylindrical body. Dimension C is the total height of the unit. Dimension D is the diameter of the bottom section. The drawing includes dashed lines indicating the measurement points and a circular inset showing the bottom section's profile.

	mm	inch
A	Ø 360	Ø 14 ¹ / ₈
B	675	26 ⁵ / ₈
C	730	28 ³ / ₄
D	420	16 ¹ / ₂

Application restrictions

Do **not** use the product for the following applications or in the following circumstances: polishing applications in combination with grinding, welding or any other application that generate sparks (fibres from polishing or abrasive flap disks are highly flammable and pose a high risk of filter fires when exposed to sparks) | aluminium laser cutting | oil mist | heavy oil mist in welding fume | arc-air gouging | 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

Product type	PHV
Article no.	refer to order information
Product category	portable/mobile welding fume extractors
Version	121121/H

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