PLYMOVENT®
clean air at work

EDS

DILUTER SYSTEM

The EDS is a free-standing general filtration system that prevents accumulation of welding fume by continuous filtration of polluted air. The EDS consists of a central filter system, a fan in sound-absorbing case, an outlet unit with adjustable outlet nozzles, a silencer and a control box with frequency inverter and PLC.

The filter unit is provided with a spark arrester and filter cartridges. It contains the *RoboCleanPlus* system for automatic sectionwise cleaning of the filter cartridges by compressed air. The dust and dirt particles end up in the drum underneath.



Scheda tecnica

APPLICATIONS

The EDS is intended to be used for the following applications:
- MIG-MAG/GMAW welding
- TIG welding
- FCAW welding
- stick/MMAW welding

Do **not** use the EDS for the following applications or in the following circumstances:
- oil mist
- extraction of hot gases (more than 45°C/113°F continuously)
- sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids
- explosive environments of explosive substances/gases

SPECIFICATIONS

Physical dimensions and properties	
Inlet diameter: • Filter unit • Fan (interior diameter)	 • Ø 400 mm (15.75 in.) • Ø 401 mm (15.79 in.)
Outlet diameter: • Filter unit • Fan (internal diameter)	 • Ø 400 mm (15.75 in.) • Ø 501 mm (19.72 in.)
Material: • Filter housing • Base • Frame • Fan • Fan housing • Outlet unit with nozzles • Silencer	 • steel • LMDPE (linear medium density polyethylene) • steel • steel • steel with aluminium profiles • zinc-plated steel and aluminium • zinc-plated steel
Colour: • Filter housing • Filter base • Frame	 • grey RAL 7035 • grey RAL 7024 • black RAL 9005
Weight (net)	800 kg (1764 lbs)
Drum contents	100 litres (26 gallon)
Filter	
Material	cellulose fibres
Filter surface area	2 x 75 m² (2 x 807 ft²)
Filter class	L according to DIN EN 60335-2-69
RoboCleanPlus filter cleaning system	
Required compressed air quality	dry and oil-free according to ISO 8573-3 class 6
Required pressure	6 bar (2400" WG)
Compressed air connection	quick connection coupling Ø 9 mm (CEJN 320)
Compressed air consumption	max. 150 nl/min. (5.3 ft³/min.) (depending on the degree of saturation of the filter)
Duration off-line cleaning cycle	90 minutes
Performance	
Fan type	radial
Unrestricted airflow	max. 12.000 m³/h (7,063 CFM)
Throw	max. 50 m (164 ft)
Speed of revolutions	2920 at 50 Hz
Electrical data	
Power consumption fan	7,5 kW (10 HP)
Connection voltage	400-690V/3~/50Hz
Insulation class fan	F with PTC
Nominal current	13,9 A
Protection class	IP 54
Ambient conditions	
Operating temperature: • min. • nom. • max.	 5°C (41 °F) 20°C (68 °F) 45°C (113 °F)
Max. relative humidity	75%
Outdoor use allowed	no
Storage conditions	• 5-45°C (41-113°F) • relative humidity max. 80%

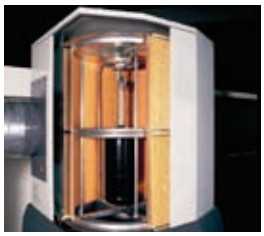
www.plymovent.it - Importatore in esclusiva per l'Italia: AIRUM srl T 051/60.25.072

■ Scope of supply	
Central filter system SCS-D - Air inlet - Spark arrester - Frame - Drum - Drum flange - Bush - Fan - Frame fan - Silencer - Duct Ø 400 mm - Duct Ø 500 mm - Outlet unit with nozzles - Control box	
■ Order information	
Package composed of the following article numbers: • 7456100000 • 9850060080 • 9850070040 • 9850070030 • 9824000150 • 7906060210	 • SCS-D central filter unit • FCC-150 filter • CB-EDS control box • Diluter; outlet unit with nozzles • fixing material • SIF-1200 RI in sound-absorbing case
■ Shipping date	
Gross weight (incl. pallet): • Pallet 1 • Pallet 2 • Pallet 3 • Pallet 4	 • 260 kg (573 lbs) • 155 kg (342 lbs) • 295 kg (650 lbs) • 150 kg (331 lbs)
Packing dimensions: • Pallet 1 (SCS, drum, frame) • Pallet 2 (outlet unit with nozzles, spark arester) • Pallet 3 (fan, frame fan, control box) • Pallet 4 (silencer, duct, connection material)	 • 120 x 170 x 220 cm (47.2 x 66.9 x 86.6 in.) • 120 x 120 x 170 cm (47.2 x 47.2 x 66.9 in.) • 120 x 120 x 200 cm (47.2 x 47.2 x 78.7 in.) • 80 x 120 x 200 cm (31.5 x 47.2 x 78.7 in.)
Harmonized Tariff Code	8537.1091.90
Country of origin	the Netherlands

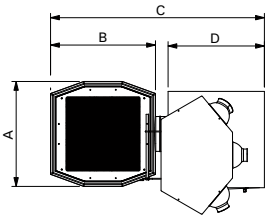
APPROVALS/CERTIFICATES

CE	
UL	on fan motor and frequency inverter
RoHS 2002/95/EC	EU Directive 2002/95/EC (RoHS) (valid as of July 2006)

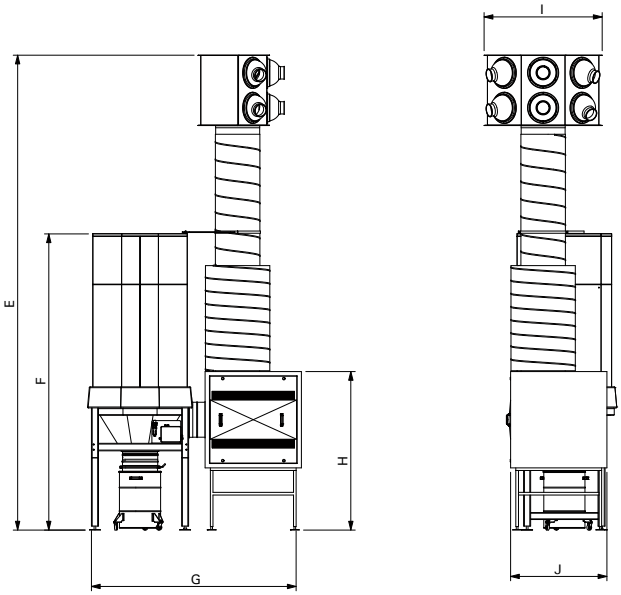
FEATURES

RoboCleanPlus automatic filter cleaning system	
Adjustable outlet nozzles	

DIMENSIONS



	mm	inch
A	1200	47.2
B	1200	47.2
C	2440	96.1
D	1100	43.3
E	5425	213.6
F	3385	133.3
G	2340	92.1
H	1810	71.3
I	1350	53.2
J	1100	43.3



Product type	**EDS**
Article no.	refer to order information
Product category	general filtration systems
Version	040810/B

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

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