

ESP-3000 Electrostatic Filter

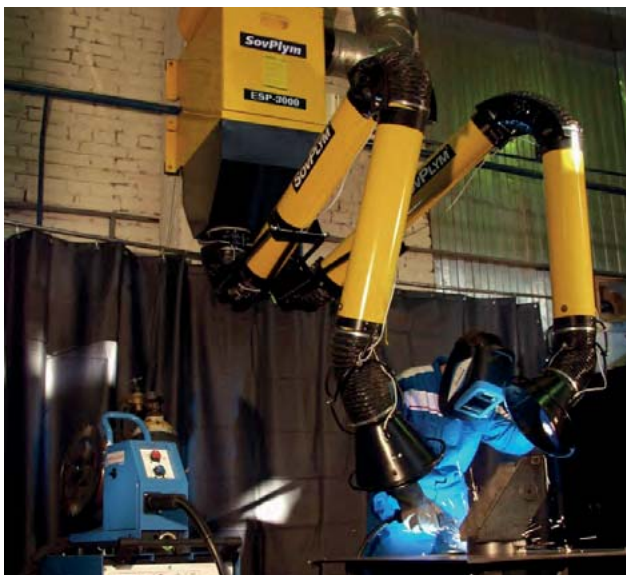


Description

Electrostatic filters of ESP-3000 series are designed for filtration and cleaning of aerosols of dry and solid substances, welding fumes of low concentration and fine non-metallic dusts with particle sizes down to 0,05 microns. ESP 3000 filters are equipped with alarm system that controls the condition of filter elements. ESP-3000 units are supposed to be used with one or two standard extraction arms, which are ordered separately. In addition to long-life electrostatic filtration system, ESP-3000 can be equipped with additional carbon filter cartridge to absorb gaseous substances and odors. ESP 3000 units are suitable for continuous indoor operation under the following environmental conditions: ambient temperature from +10 to +45 °C and relative humidity of 80% at 25 °C.

Processes and applications

- Welding processes
- Dust extraction
- Soldering



Restrictions

- Not suitable for extraction of any type of metallic dust
- Not suitable for continuous operation and for high-intensity applications
- Not suitable for welding fume extraction of aluminum or other non-ferrous metals

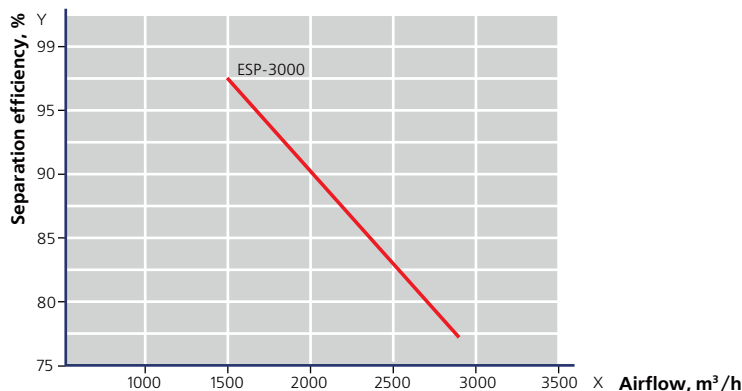
Features

- Built-in alarm system
- Low lifetime costs
- Wall-hanging, less space needed
- Washable filtration cells
- Additional carbon filter (option)
- Compatible with all standard extraction arms

Article numbers / Technical characteristics

Article №	Model	Compatible fan model*	Intake chamber	Airflow, m ³ /h	Filtration surface, m ²	Separation efficiency, %	Weight, kg
27042	ESP-3000-3C-2.6	VMA/VMK-3000	spIS-3000 (2x250 mm side connections)	1600-2400	16,4	>92	~90
27044	ESP-3000-3C-4.6	VMA/VMK-4700					
27046	ESP-3000-3C-8.5	VMA/VMK-6000					
27048	ESP-3000-4C-2.6	VMA/VMK-3000	spIS-3200 (2x160 mm bottom connections)				
27050	ESP-3000-4C-4.6	VMA/VMK-4700					
27052	ESP-3000-4C-8.5	VMA/VMK-6000					
27060	ESP-3000-10C-2.6	VMA/VMK-3000	sTOS-3000 (small, 250 mm bottom connection)				
27062	ESP-3000-10C-4.6	VMA/VMK-4700					
27064	ESP-3000-10C-8.5	VMA/VMK-6000					

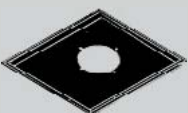
Filtration efficiency diagram



Delivery set / Standard kit info

- Inlet chamber
- Ionization cell
- Pre-filter
- Mounting flange for VMA fan
- Precipitation cell
- Control panel

Spare filter elements and accessories

	Article N°	Model	Description
	6389	sCF-002	Carbon filter
	6387	sFF-3000	Pre-filter, aluminum, washable
	6049	sIO-3000	Ionization cell, aluminum, washable, 10 tungsten threads
	6048	sEC-3000	Precipitation cell, aluminum, washable, 83 precipitation plates
	5165	spIS-3000	Intake chamber with two side 250mm connections
	5164	spIS-2200	Intake chamber with two 160mm bottom connections
	5178	sSTOS-3000	Small intake chamber with one 250mm bottom connection
	5320	sPF-2000-3000	Floor stand
	16435	Detergent	Concentrate of liquid detergent for cells washing
	6350	sVPSP-M	High voltage unit for electrostatic filters with alarm circuit card