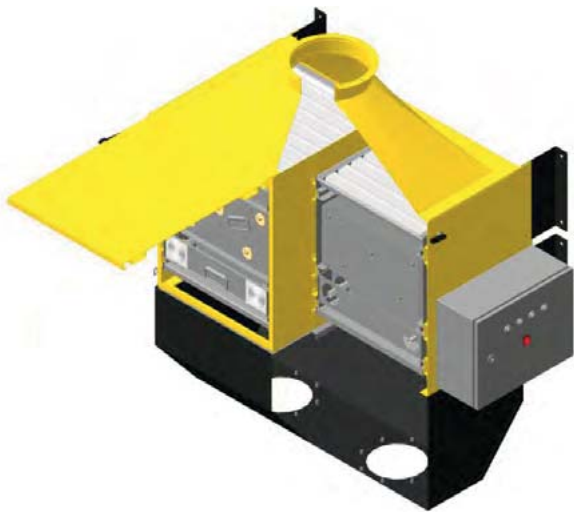


# ESP-5000 Electrostatic Filter



## Description

Electrostatic filters of ESP-5000 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 5000 filters are equipped with alarm system that controls the condition of filter elements. In addition to long-life electrostatic filtration system, ESP-3000 can be equipped with additional carbon filter module to absorb gaseous substances and odors or ion-exchange filter module that allows to capture certain types of gases. ESP-5000 units are supposed to be used with two standard 200 mm extraction arms, which are ordered separately. ESP 5000 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 and advantages

- 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

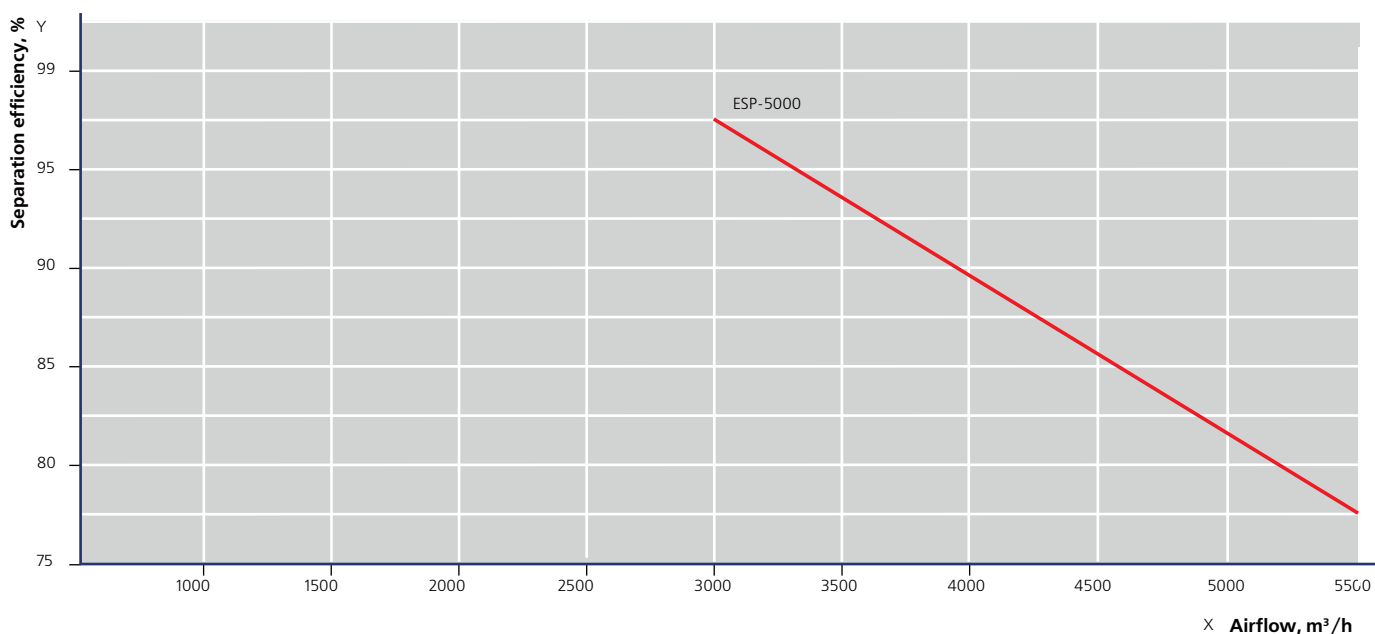
## Article numbers / Technical characteristics

Article №	Model	Compatible fan model*	Intake chamber	Airflow, m <sup>3</sup> /h	Filtration surface, m <sup>2</sup>	Separation efficiency, %	Weight, kg
27083	ESP-5000-11c-4.6	VMA/VMK-4700	spIS-5000 (2x250 mm side connections)	3000-4000	32,8	>92	-200
27084	ESP-5000-11c-8.5	VMA/VMK-6000		4000-4800			
27085	ESP-5000-12c-4.6	VMA/VMK-4700	spIS-5200 (2x160 mm bottom connections)	3000-4000			
27086	ESP-5000-12c-8.5	VMA/VMK-6000		4000-4800			
27087	ESP-5000-13c-4.6	VMA/VMK-4700	sSTOS-5000 (small, 250 mm bottom connection)	3000-4000			
27088	ESP-5000-13c-8.5	VMA/VMK-6000		4000-4800			

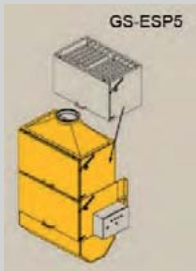

## Delivery set / Standard kit info

- Inlet chamber
- Ionization cell (2 pcs)
- Pre-filter (2 pcs)
- Blowout output filter (2 pcs)
- Mounting flange for VMA fan
- Precipitation cell (2 pcs)
- Control panel (including fan starter and thermal relay)


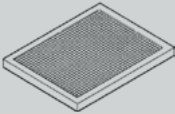
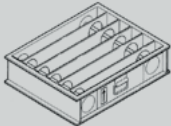
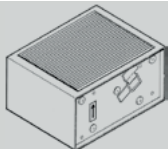
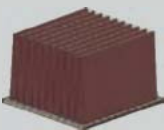



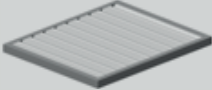
## Filtration efficiency diagram



## Additional filtration modules

	Article №	Model	Description	Pressure drop, Pa
	6298	GS-ESP5	Set of ion exchange filters for ESP-5000. Designed for filtration of gas components contained in the welding fumes. Consists of a metal housing with a door, with two removable sIEC-3 cartridges inside. Module is delivered with cartridges. The module is mounted on top of the main body of ESP-5000 filter.	100
	6299	sMCF-ESP5	Carbon filter for ESP-5000. Mostly efficient for capturing of odours (VOC) gases and CO. Carbon filter module contains two standard replaceable carbon filters sCF-002. The delivery package of sCF-ESP5 includes two carbon filters sCF-002.	400

## Spare filter elements and accessories

	Article №	Model	Description
	6389	sCF-002	Carbon filter
	6387	sFF-3000	Pre-filter, aluminum, washable (2pcs required)
	6049	sIO-3000	Ionization cell, aluminum, washable, 10 tungsten threads (2pcs required)
	6048	sEC-3000	Precipitation cell, aluminum, washable, 83 precipitation plates (2pcs required)
	10866	sIEC-3-ESP5	Ion exchange filter cartridge (2pcs required)
	6385	sPF-5000	Floor stand
	16435	Detergent	Concentrate of liquid detergent for cells washing
	6350	sVPSP-M	High voltage unit for electrostatic filters with alarm circuit card
	10824	sBF-ESP5	Blowout output filter, G4 (2 pcs required). Only for new generation of ESP-5000 filters.