



When welding fumes are extracted on a regular or even continuous basis, considerable quantities of heated air will be extracted together with the welding fumes. From a cost point of view, this may not always be

acceptable. The alternative is to clean the extracted air and recirculate it into the work area.

Incidentally, filtering the extracted welding fumes can also be necessary to satisfy the applicable emission standards. The Euromate Pro Line product range includes several stationary units with various filter systems for specific applications. These units can be combined with various types of extraction arms.



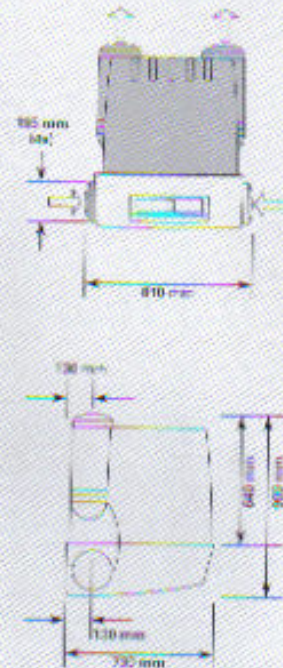
STATIONARY WELDING FUME EXTRACTORS



SFD MECHANICAL FILTER



Dimensions SFD



The Euromate SFD is based on the mechanical DuraFilter® system and is designed for infrequent to regular welding operations. The SFD is a completely mechanical system, without electrical components, that offers a simple, effective, and economical solution for filtering dry welding fumes. The system is equipped as standard with a clogged filter indicator, which shows either the extraction is still satisfactory or the filter needs to be replaced. The unit can support a maximum of two workplaces where welding is carried out.



SFD specifications

- Impact resistant synthetic housing
- DuraFilter®
- Filter surface area 50 m²
- Filter efficiency up to 99.8%
- Aluminium spark arrester
- Clogged filter indicator
- Suitable for a maximum of two extraction arms, each fitted with a FAN 28
- Weight 30 kg

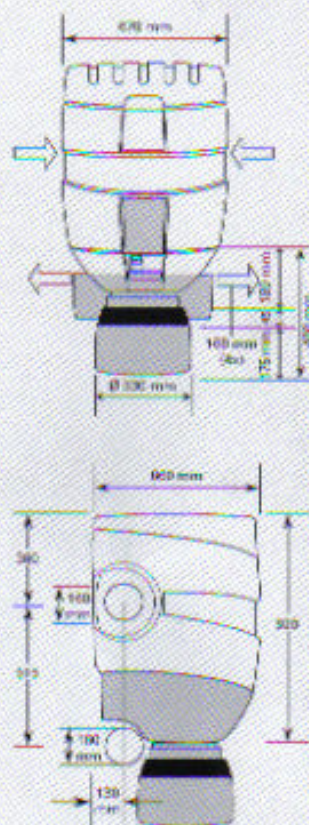
SFS SELF-CLEANING FILTER



The SFS self-cleaning filter has been specially designed for intensive welding operations that produce dry welding fumes. The SFS utilises the patented RoboClean[®] cleaning system. RoboClean[®] operates with compressed air and is equipped accordingly with an external connection as standard. A control voltage of 24 Volt is required to drive the pulse / cleaning mechanism.

The SFS is suitable for one extraction arm in combination with a FAN 28.

Dimensions SFS



SFS specifications

- Impact resistant synthetic housing
- RoboClean[®] automatic filter cleaning
- Cartridge filter with SurfacePlus[®] treatment
- Filter surface area 30 m²
- Filter efficiency up to 99.8%
- Aluminium spark arrester
- Compressed air connection 4-6 bar
- Control voltage 24 V
- Suitable for one extraction arm in combination with a FAN 28
- Weight 85 kg

SFE ELECTROSTATIC FILTER

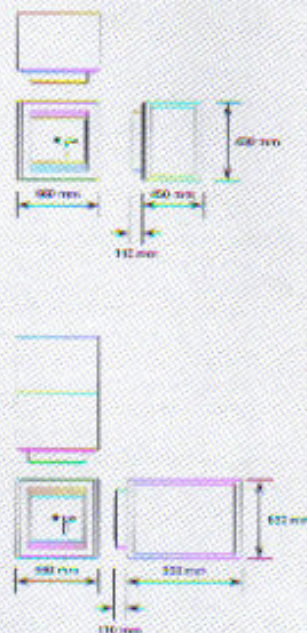


The Euromate electrostatic filter system SFE is eminently suitable for treating welding fumes originating from oil treated steel. The SFE can be supplied in two capacities. The SFE 25 is suitable for a maximum of two workplaces if the fumes are discharged to the outside. The SFE 50 can handle a maximum of five workplaces. If recirculation is used, these numbers are respectively one and three. Greater capacities can be achieved by combining separate SFE 50 units. The open filter structure ensures a constant suction level. The filters can be easily removed and cleaned, which guarantees correct operation. By combining various types of prefilters and final filters, the most suitable



extraction can be achieved for each machining process. In some processes, for instance when cutting oil is used in machining operations, oil mist is released. To remove this oil mist, the SFE can be equipped with an oil mist eliminator as a prefilter. The SFE is fitted as standard with an oil collector. A drain tap can be fitted to allow the oil to be drained easily.

Dimensions SFE 25/50



SFE specifications

- Available in all standard voltages, 1 or 3 phase(s), 50/60 Hz
- Epoxy-coated steel housing
- Euromate electrostatic filter system, easy clean
- Filter efficiency up to 99%
- Aluminium spark arrester
- High voltage indicator light
- Fitted with an oil collector as standard
- Can optionally be fitted with an oil drain tap and various types of prefilters and final filters
- Power consumption
SFE 25: 30 W
SFE 50: 50 W
- Maximum capacity with external discharge
SFE 25: 2500 m³/h
SFE 50: 5000 m³/h
Maximum capacity with recirculation
SFE 25: 1000 m³/h
SFE 50: 3000 m³/h
- Collector surface area
SFE 25: 14.2 m²
SFE 50: 28.4 m²
- Weight
SFE 25: 60 kg
SFE 50: 100 kg

Modern technology: the heart of the Euromate Pro Line range



DuraFilter[®]



RoboClean[®]



Electrostatic filter

The DuraFilter[®] cartridge filter has an effective surface area of no less than 50 m². Its special structure guarantees high filter efficiency and a long lifespan. This keeps the operational cost for the filter system to a minimum. The system is suitable for dry welding fumes.

RoboClean[®] is a self-cleaning filter system whereby the filter sections are periodically purged with air pulses from a pressure vessel. The extraction capacity remains constant, even during intensive use. The residue is collected in a collector. The cartridge filter has an effective surface area of 30 m² and is treated in accordance with the SurfacePlus[®] method. This ensures high filter efficiency and a long lifespan. The system is suitable for dry welding fumes.

The electrostatic filter is made up of three sections, i.e. a mechanical prefilter, an ioniser where the polluted particles are charged, and a collector with an effective surface area of 14.2 m². The collector is equipped with electrically charged plates which attract the polluted particles. The purified air is recirculated via a final filter. The system is particularly suitable for the extraction of welding fumes, released during the processing of oil treated steel and oil mist.

HFE AND SFM



HFE industrial air cleaner

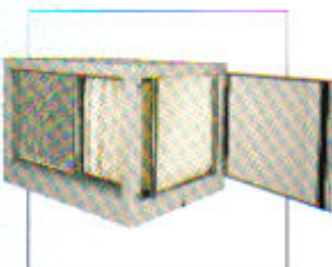
This air cleaner is suitable for extracting welding fumes in situations where it is impossible to use an extraction arm at the source. The HFE is suitable for treating regular and oily welding fumes originating from oil treated steel. The system is based on an electrostatic filter and has an in-built fan. For removing oil mist, the HFE can be equipped with an oil mist eliminator as a prefilter.

The unit is fitted as standard with an oil collector. A tap can be fitted to drain the oil collector.

The unit is available in two capacities. The choice depends on the volume of air that must be treated per hour.

SFM bag filter

This unit is fitted with a multi-layer bag filter. This filter combines excellent efficiency with low air resistance. The SFM has been developed for applications with a low dust/welding fume load, such as TIG welding. Furthermore, the SFM is specially suited to be used as a backup filter after the SFE. If the electrostatic filter becomes clogged, the SFM, because of its low air resistance, ensures that filter efficiency is guaranteed.



HFE specifications

- Epoxy-coated steel housing
- Euromate electrostatic filter system, easy clean
- Filter efficiency up to 99%
- Adjustable outlet grid
- Aluminium spark arrester
- High voltage indicator light
- Fitted with an oil collector as standard
- Can optionally be fitted with an oil drain tap and various types of prefilters and final filters
- Fitted with an integrated fan
- Power consumption
 - HFE 25: 0.75 kW
 - HFE 50: 1.5 kW
- Maximum capacity
 - HFE 25: 2500 m³/h
 - HFE 50: 5000 m³/h
- Collector surface area
 - HFE 25: 14.2 m²
 - HFE 50: 28.4 m²
- Weight
 - HFE 25: 100 kg
 - HFE 50: 195 kg
- Available in all standard voltages, 1 or 3 phases, 50 Hz

SFM specifications

- Epoxy-coated steel housing
- Synthetic bag filter class F8
- Aluminium spark arrester
- Maximum capacity
 - SFM 25: 2500 m³/h
 - SFM 50: 5000 m³/h
- Weight
 - SFM 25: 44 kg
 - SFM 50: 68 kg

Service

Euromate suppliers have wide-ranging technical (welding) know how and meet the strict Euromate training standards. Where necessary, they can call on to Euromate's long international experience. Together with other data the nature of the welding operations, the welding processes used, the applicable legislation and the annual usage of consumables are the basis for professional and expert advice that is combined with practical and personal service.

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Which solution?

- Dry welding fumes, standard welding operations:
SFD mechanical DuraFilter®
- Dry welding fumes, intensive welding operations:
SFS self-cleaning RoboClean® filter
- Welding operations on oil treated steel
**SFE/HFE electrostatic filter with aluminium prefilter
and synthetic final filter.**
- Removal of oil mist:
**SFE/HFE electrostatic filter with oil mist eliminator
and aluminium final filter.**

Why Euromate?

- Attractive price/performance ratio
- Innovative and reliable technology
- Comprehensive range
- ISO 9002 quality guarantee
- Professional advice for tailor made solutions
- Fast and reliable service