

## SCS FILTER SYSTEM



Self-cleaning filter system  
removes welding fumes efficiently



SCS unit in a Push-Pull system (general filtration system)

## DO YOU EXTRACT WELDING FUMES EFFECTIVELY?

**We do.** Proper extraction and filtration of welding fumes in a welding workshop contributes significantly to a better work environment. Whether you extract welding fumes at the source, through an extraction hood or a general filtration system, you always need to be in control.

For more than 35 years, Plymovent has been specialising in the extraction and filtration of welding fumes. We offer high-quality systems that remove welding fumes and keep the background concentration levels within the legal limits, in accordance with international guidelines.

All our extraction and filtration products are primarily designed to remove and control welding fumes in the metalworking industry to protect the welders and people working nearby.

## SCS FILTER SYSTEM

The SCS unit is an all-round central filter system. It is developed to remove dry fumes of welding, cutting and grinding processes in the metalworking industry.

### SELF-CLEANING

The SCS filter system is fitted as standard with RoboCleanPlus. This self-cleaning system cleans the filter cartridge automatically, section wise, through shots of compressed air. Dust and particles fall into the 100L waste container underneath.

Besides the user-friendly part, the self-cleaning system also increases the lifespan of the filter cartridge as dust and metal particles are being constantly removed from the filter surface, reducing maintenance and replacement costs.

## COMPACT UNIT

The SCS filter system features a vertically placed filter cartridge. Although the 150 m<sup>2</sup> filter surface is large, the SCS unit is small in volume, occupying little floor space.

### ENERGY SAVING

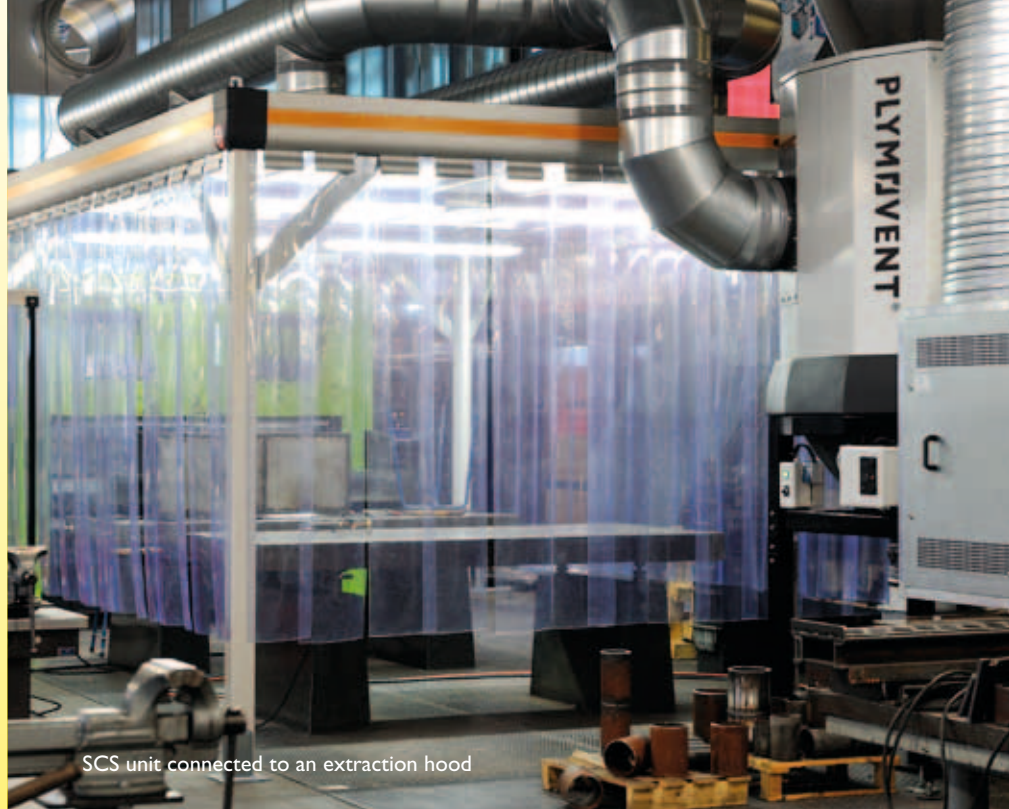
Using a SCS unit in your welding fume extraction system saves energy if recirculation is allowed (depending on local regulations).

Recirculation reduces the need for ventilation with outside air. Expensively heated or cooled air stays within the workshop, reducing both general and technical costs and the impact of operations on the environment.

## FEATURES

- Self-cleaning RoboCleanPlus system; maintenance-friendly.
- Large filter surface of 150 m<sup>2</sup>.
- Long filter lifespan.
- Timer, pressure sensor and integrated software allow for automatic cleaning.
- Requires minimal floor space.
- Low energy consumption, saves energy.

\* If the SCS unit is used to control the background concentration of welding fumes in a workshop (as part of a general filtration system), welders need to use personal protection during their welding activities, such as overpressure helmets.



SCS unit connected to an extraction hood

## SCS IN WELDING FUME EXTRACTION SYSTEMS

The SCS filter system is fairly easy to install. The eight air inlet positions and two air outlet positions make the unit very flexible. As the compact SCS filter system requires little floor space, the unit can be used in various settings.

### ■ Source extraction by means of extraction arms

The SCS filter system can be installed with extraction arms, up to 15. If the arms operate continuously, we recommend a maximum of 8 extraction arms. If the arms are equipped with automatic sensors and dampers, we recommend a maximum of 15 extraction arms. We know from experience that the real operation time is often 50%. In the case of source extraction, the SCS filter system and arms can be combined with single fans or one central fan.

### ■ Isolated work area by means of an extraction hood

The SCS filter system is qualified to cover the capacity of many robotic welding installations, especially robotic welding installations covered by a shielded extraction hood. One SCS unit covers a robotic workplace of up to 20 m<sup>2</sup>.

### ■ General filtration system\* to control the background concentration of welding fumes

The SCS filter system can be used in a Push-Pull system or a Diluter system to continuously recirculate clean air. A Push-Pull system uses horizontal ductwork to pull welding fumes/polluted air and to push recirculated clean air. The Diluter system extracts the welding fumes/polluted air and injects clean air to mix with the welding fumes.

General filtration systems\* are recommended if extraction arms and extraction hoods are not an option, for example, if various welding processes are taking place at continuously changing locations.



## CLEAN AIR AT WORK

High-quality welding fume extraction and filtration systems in the metalworking industry are long-term investments. They create a cleaner and healthier work environment. Welders and other personnel will notice the difference (disappearance of the visible blue layer of welding fumes) immediately. The result: improved work performance, increased productivity and less absence due to illness. On top of that, your machinery will stay cleaner, lowering your company's maintenance costs.

## FROM SCRATCH TO THE RIGHT SOLUTION

Plymovent is not just a manufacturer. We offer professional advice and engineering services to provide a solution tailored to your specific needs or requirements. In addition, we offer service and maintenance services to keep your system functioning optimally.



Multiple arm system

## PLYMOVENT OFFERS TOTAL SOLUTIONS FOR AIR CLEANING

All welding fume extraction equipment of Plymovent, like extraction arms, single and central fans, suit the SCS filter system. System control panels are highly recommended. They are developed to save energy (as less power is being consumed) and to optimise the airflow throughout your system. The built-in frequency inverter adjusts the airflow according to your needs, making the system more efficient all-over.

For more than 35 years, Plymovent has been gaining experience in the field of air cleaning. We not only have extensive knowledge of the extraction and filtration of welding fumes and oil mist in metalworking industries, we are also specialised in the removal of vehicle exhaust fumes, tobacco smoke and other indoor air pollution. For more information, please contact your authorised Plymovent distributor or visit our website.

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clean air at work

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high-quality products. Our expertise gained over  
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