

SCS-Diluter

A standalone general welding fume
filtration system



Minor investment maximum result

The SCS-Diluter is a stand alone general filtration system, developed to reduce and control the background concentration of welding fumes in a workshop. It makes sure that legal limits for welding fumes are not exceeded.

SCS-Diluter systems are designed for infrequent to regular dry welding activities. And is the ideal solution when source extraction and hoods are not an option, for example when large work pieces are being fabricated, various welding processes take place at changing locations or when ductwork is difficult to install.

How does it work?

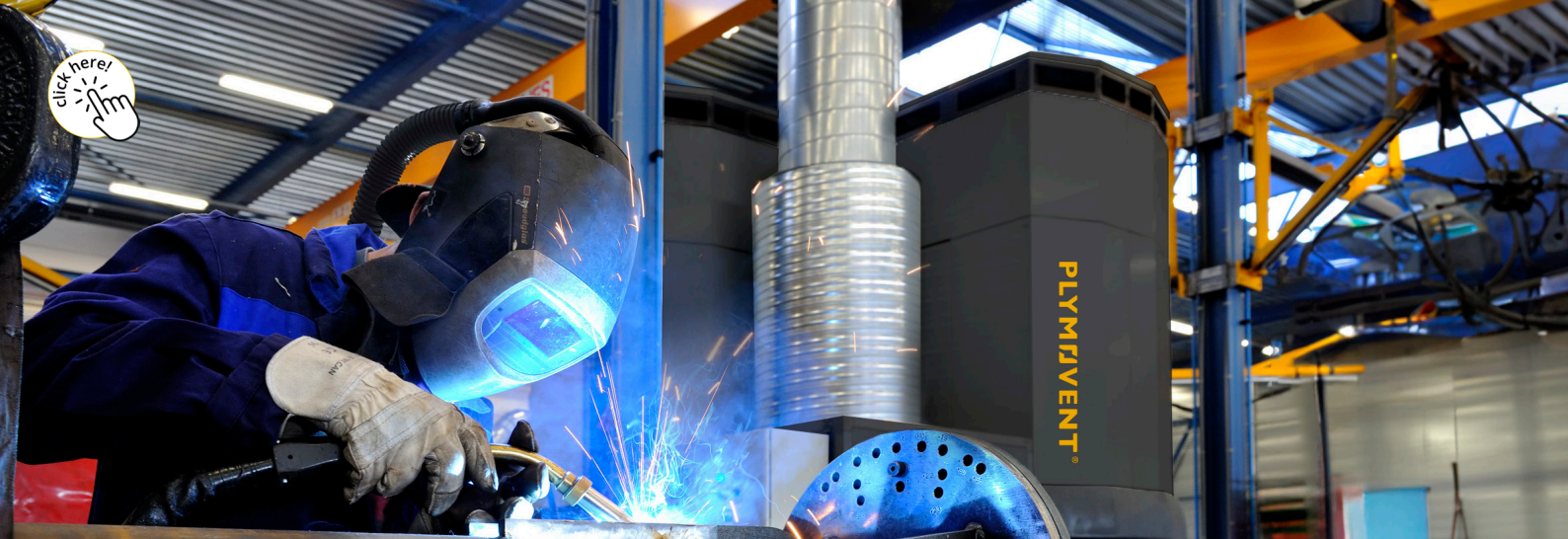
The blue haze of welding fumes, which concentrates between four and six meters above the floor, is continuously mixed with clean air injected by nozzles, causing the haze to disappear immediately. This clean air, filtered from the workshop, is adaptable in volume and direction to fit the situation. Because the system filters automatically and collects residue in a dustbin, maintenance is kept simple and hassle-free.

Additionally, the fan speed is controlled and adaptable to need by a frequency inverter. This saves energy, expands filter life and ensures a constant and reliable performance.



Benefits

- ✓ Healthier and cleaner working environment as a result of continuous filtration of polluted air
- ✓ Welders and other people will notice the difference immediately
- ✓ Re-circulation concept; expensive heated or cooled air stays within the workshop
- ✓ The silencer reduces the noise level of the air flow.
- ✓ Stand-alone without fixed duct work, less installation costs



Two versions of filter controls and filter cartridges

The **SCS-Diluter GO** features the integrated ControlGo, designed for basic needs with preset configurations, push buttons and indicator lights for easy interaction.

The **SCS-Diluter PRO** includes the ControlPro, offering an intuitive touch screen interface that displays system performance and upcoming actions. It has a user-friendly menu for full adaptability. Additionally, the SCS-Diluter comes with two cellulose filter cartridges with SurfacePlus treatment and the SCS-Diluter PRO W3 compliant with EN-ISO 21904-2:2020. This smart system is compatible with our IIOT management system: **ControlPro Connect**. This advanced web portal allows you to monitor, manage and control multiple filters in your facility at a glance.

Adjustable outlet nozzles

Direction and volume control throw up to 50 meters (164 ft)

360° air inlet

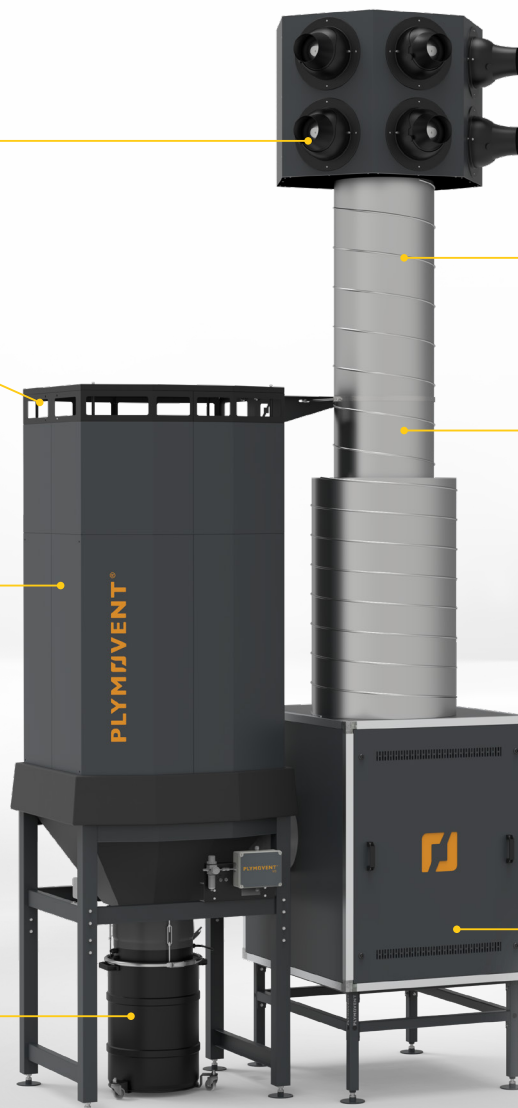
Filter unit is also provided with a spark arrester

150 m² filter cartridge

- RoboCleanPlus system
- Two cellulose filter cartridges

100 liter dustbin on wheels with sensor switch

Dustbin can be removed while the unit is operational



Energy savings 50% in first year

Pressure indication device controls the preset volume

Silencer

Reduce noise level of airflow

ControlPro

Integrated control system

Sound absorbing case

Reduce the noise of the fan motor to 69 db(A)

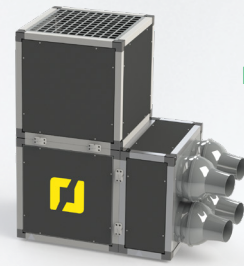


Close the “circle of air” with the Booster Fan and increase the airflow in your workshop

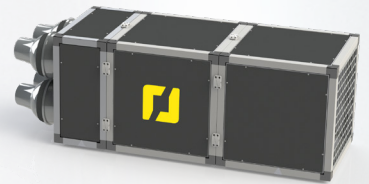
In situations where the Diluter filter capacity is sufficient but the workshop or the distance between diluters is too large, the booster fan is used to complete the air circulation. Plymovent offers the booster fan in two types with different functionalities.

- **BoosterFan/A:** fan with angled airflow to enhance the return flow to the Diluter system
- **BoosterFan/S:** fan with straight airflow to enlarge the throw between two Diluter systems

These booster fans are also the solutions to prevent the air from getting stuck in a blind spot of the workshop, such as dead corners, niches and in case of L-shaped workshops.

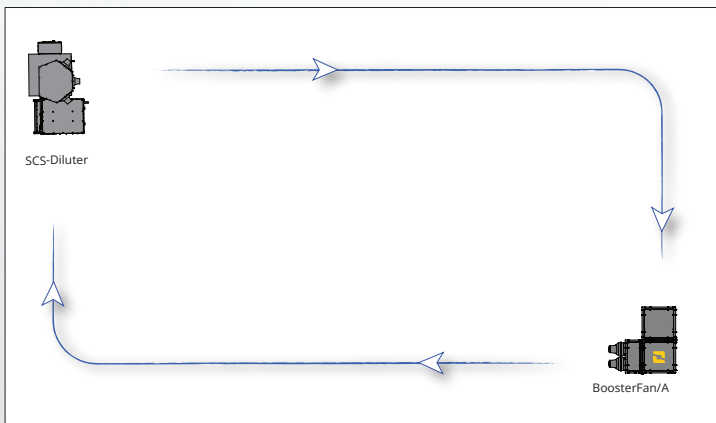


BoosterFan/A

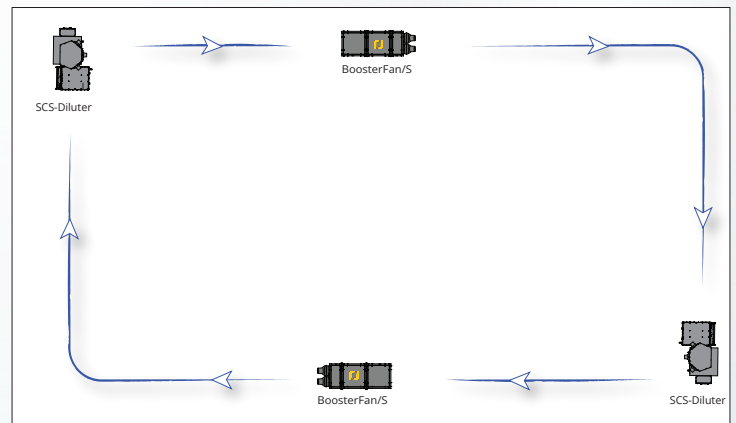


BoosterFan/S

Example BoosterFan/A in a 40 x 20 meter workshop



Example BoosterFan/S in a 80 x 20 meter workshop



PLYMOVENT®

clean air at work

We care about the air you breathe

Plymovent is committed to ensuring a clean, safe and healthy working environment for everyone, everywhere. For that reason we design, manufacture and supply products, systems and services all over the world for the extraction and filtration of polluted indoor air.

We provide high-quality solutions to welders, metalworkers, firefighters, garage mechanics and many more workers at risk from a polluted workplace. Our products contribute significantly to a cleaner, safer and healthier workplace.

Reach out to us, online or offline

With over 130 locations all over the world, there is a Plymovent specialist nearby who can provide answers to all your questions. Visit our website to find your local partner in Clean air at work.

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