



## DILUTER SYSTEM



Prevent accumulation of  
welding fumes in your workshop



## DO YOU CONTROL WELDING FUMES?

**We do.** Controlling welding fumes in a welding workshop significantly contributes to a better work environment. Simply by keeping the background concentration of welding fumes as low as possible. This can be realised by using the right welding processes and by using a high-quality welding fume extraction and filtration system that prevents the accumulation of welding fumes in your workshop.

As a specialist in air cleaning technology, Plymovent offers various solutions to control welding fumes in the metal-working industry, like source extraction, extraction hoods and general ventilation and filtration systems. All designed to remove and control welding fumes as best can.

## DILUTER SYSTEM

The Diluter system 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.

Diluter systems are the ideal solution if source extraction and hoods are not an option, for example when large pieces of metal are being fabricated, various welding processes take place at changing locations or when ductwork is difficult to install.

## HOW DOES IT WORK

Because of the heat generated by welding processes, welding fumes rise and concentrate in a 'layer' four to six meters above the work floor. By means of the multi-directional outlet nozzles, the Diluter system continuously mixes/dilutes the layer

of welding fumes with clean, filtered air. To optimise this process, each nozzle can be rotated individually to optimise the airflow. Positioning the nozzles inside the layer of welding fumes, gives the best result and minimises the background concentration of welding fumes in the workshop. You and your personal will notice this immediately, as the visual blue layer of welding fumes disappears.

The polluted air from the workshop is captured by a filter unit. The air is cleaned and send back into the workshop via the outlet nozzles. The residue of fume dust is collected in a dustbin, that can be emptied easily. The fan speed and thus the airflow is adaptable to your requirements and once set, kept by a frequency inverter. This ensures a reliable operation plus it saves energy and expands the lifespan of the filter cartridge(s).

## 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 personal will notice the difference (disappearance of the visual blue layer of welding fumes) immediately. The result: better work performance, increased productivity and less absence due to illness. On top of that, your machinery stays cleaner, increasing your company's security.



## BENEFITS

- Reduction of the background concentration of welding fumes
- Continuous purification of (polluted) air
- Energy saving; recirculation of expensively heated or cooled air
- Stand alone unit; no ductwork required
- Suits almost any work environment
- Easy to install

Please note that the Diluter system controls the general background concentration of welding fumes in the welding workshop. This does not exclude the need for personal protection for welders during their welding activities.

## ENERGY SAVING

The Diluter system recirculates the indoor air in the facility. The central filter system extracts polluted air and brings clean, filtered air back into the workshop via the outlet nozzles.

This recirculation reduces the need for ventilation with outside air. Expensively heated or cooled air stays within the workshop, reducing your costs and your operational impact on the environment.

## THE SMART SOLUTION WITHOUT DUCTWORK

The Diluter system is easy to install because it does not require any ductwork, which also reduces labour costs. It is a very flexible solution for facilities with many welding processes, crane transport and changing work locations. The Diluter system suits almost any workshop and is a relatively small investment for controlling welding fumes in a welding facility.



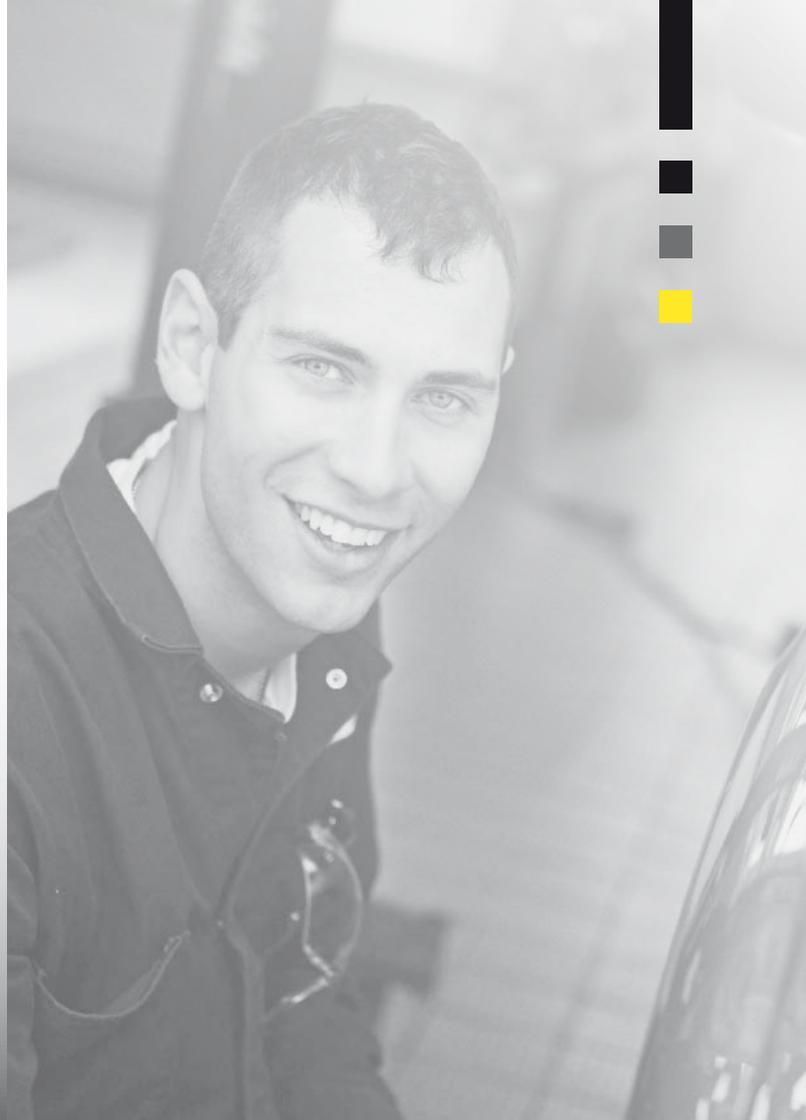
## PLYMOVENT COMPLETES THE PACKAGE

In addition to the Diluter general filtration system, the Plymovent industrial product range includes:

- Extraction arms and cranes
- Downdraft tables
- Extraction hoods
- Mobile and stationary filter units
- Control boxes and system control panels
- Fans

## 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. For more information please contact your authorised Plymovent distributor or visit our website [www.plymovent.com](http://www.plymovent.com).



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clean air at work

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## PLYMOVENT OFFERS TOTAL SOLUTIONS FOR AIR CLEANING

For over 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.

Your authorised Plymovent distributor:

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*Plymovent cares about the air you breathe. We offer products, systems and services which ensure clean air at work, anywhere in the world.*

*We respect the environment and we deliver high-quality products. Our expertise gained over many years and our genuine commitment to customer requirements enable us to provide precisely the solutions you need.*