PLYMOVENT®
clean air at work

PHV



Portable filter unit removes welding fumes at the source



DO YOU REMOVE WELDING FUMES EFFECTIVELY?

We do. Removing welding fumes in a welding workshop, especially at the source, contributes significantly to a better work environment. Source extraction remains the most effective method of capturing and removing welding fumes directly from the breathing zone of the welder.

Plymovent has been gaining experience for 40 years in the field of air cleaning. We offer high-quality solutions that keep the background concentration of welding fumes within the legal limits, in accordance with inter-national guidelines.

All our extraction and filtration products are designed primarily to remove and control welding fumes in the metalworking industry to protect the welders and people working nearby. The result: better work performance, increased productivity and less absence due to illness.

FLEXIBLE PHV UNIT

The PHV unit is a portable, compact welding fume extractor. It is designed to remove welding fumes on-site, in confined spaces and difficult to reach welding locations. Its compact size and wheels facilitate easy movement. The PHV unit is particularly suited for maintenance and light-to-moderate welding activities.

EASE OF USE

The integrated automatic start/stop device makes it easy to operate a PHV unit. The unit turns on automatically, as soon as welding starts and turns off automatically as soon as the welding activities stop.

This user-friendly feature guarantees its effectiveness in removing welding fumes, reduces the sound levels and saves energy.

TWO MOTORS

Although the PHV unit contains two motors, the impact-resistant synthetic components make it light. The motors ensure its effective extraction capacity while using funnel nozzles or welding torches, regardless of the extraction volume and pressure. The two motors meet these different demands.

HOW DOES IT WORK

The PHV unit extracts the welding fumes at the source, near the welding process. Separation and filtration takes place in five steps and ensures a filtration efficiency of almost 100%*.

- The **tangential inlet** starts with the cyclonic separation of the larger particles.
- Two **spark arresters** prevent sparks from reaching the filter cartridge. A removable/cleanable aluminium pre filter captures the larger particles while the integrated spark arrester captures the finer particles.
- The **Dura-H main filter cartridge** has a surface of 12 m^2, resulting in a long filter lifespan and a consistent high filtration thanks to the alternately sealed channel technology.
- The optional **activated carbon filter (FAC-HV)** neutralises unpleasant smells.
- The final **HEPA* filter** guarantees the high filtration efficiency. The HEPA filter makes the PHV suitable for stainless steel welding fume applications and is fitted as standard.





Extraction nozzle EN-40



Extraction nozzle EN-20



Hose length 2.5 m or 5 m



Nozzle kits NKC/NKT



Hose connection HCH-45

FEATURES

- Long filter lifespan of the Dura-H filter cartridge.
- Integrated automatic start/stop, as standard.
- Double motor technology.
- Light, compact design; standard with wheels.
- High filtration efficiency, thanks to HEPA* filter.
- Low noise level.

* High Efficiency Particulate Arrester or HEPA is a type of air filter. To qualify as HEPA by government standards, an air filter must remove 99.97% of 0.3 micrometre particles from the air that passes through.

OPTIONS

Source extraction is by far the most effective extraction method for capturing welding fumes. The portable plug & play PHV unit can be enhanced with various options, depending on your requirements.

Plymovent supplies an extraction nozzle including a magnetic foot, **EN-40**, which is particularly suitable for electrode welding. The **EN-20** is a flexible tube including a funnel extraction nozzle and magnetic foot. Both nozzles are to be placed close to (2-4 cm) the welding process.

In addition to nozzles, we offer an **extension hose of 5 m** for optimum flexibility. The 2.5 m hose is fitted as standard.

The **NKC** and **NKT** nozzle kits ought to be attached to a standard welding torch. The nozzle kits provide extra support above the welding torch during your welding activities.

The hose connection, **HCH-45**, makes it possible to channel penetrating smells via a hose to the outside. In countries where recirculation is prohibited, the HCH-45 can also be used to dispose of welding fumes from stainless steel to the outside. An activated carbon filter (**HAC-HV**) can be added if recirculation is allowed to neutralise any penetrating smells.

In addition to these options, we also supply the **MBH**. This wall mounting bracket makes it possible to mount the unit onto a fixed location on the wall.



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Your authorised Plymovent distributor:

PLYMOVENT OFFERS TOTAL SOLUTIONS FOR AIR CLEANING

Beside portable plug & play filter units, Plymovent also offers extraction arms, downdraft and backdraft workbenches, extraction hoods, mobile and stationary filter units, fans and general ventilation and filtration systems to remove welding fumes in the metalworking industry.

Plymovent offers complete solutions for air cleaning. We have 40 years of experience in the extraction and filtration of welding fumes, grinding dust and oil mist in the metalworking industry. We are also specialists in the extraction of vehicle exhaust fumes and the removal of other impurities from indoor air.

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.

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.

Plymovent reserves the right to make design changes.

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