

**WE HAVE SOMETHING
AGAINST THICK AIR!**
THE REHM SYSTEM FOR ENVIRONMENT AND HEALTH



Particulate matter pollution - not only on the road.

Increased exposure to environmental pollutants, such as particulate matter, affects us all. Both in the public and private sphere through road traffic, heating fumes, the use of printers, etc. and also at work. Here we are exposed to a high level of harmful vapors, gases, particulate matter and smoke, which can lead to health problems.

One of the main reasons is working with a conventional spray arc, which is not only slower and hotter than working with the FOCUS.PULS, but also produces vast amounts of welding fumes and requires more rework.

Now is the time to act!



Too much welding fumes makes you ill!

The topic for employees and employers:

Health risks

Welders and their colleagues have an **increased risk of asthma, bronchitis, cancer and cardiovascular diseases** due to the constant exposure to welding fumes in the workplace. The more pollutants there are in the air, the greater the likelihood of acute illnesses and serious long-term consequences.

The consequences are far-reaching:

- Reduced productivity and absenteeism due to sick leave and loss of concentration in poor air quality.
- Skills shortages and staff fluctuation if workplaces are not optimally equipped with the latest technology.
- Economic losses, as orders cannot be processed quickly.

Current legal requirements

(since 31.12.2018 mandatory!)

General dust limit value= 1.25 mg/m³ in the course of an 8-hour working day;
Reduction of the general dust limit value in accordance with TRGS 900= Technical Rule for Hazardous Substances (until 2001 = 6 mg/m³, until 2013 = 3 mg/m³). Valid since 2014.
This rule had to be implemented by December 2018 after a transitional period.

Please note:

High protection measures must be guaranteed.

- Areas previously managed without "protection" must be upgraded in terms of occupational safety.
- All workplaces, systems and equipment must be technically adapted to the limit value.
- Working above the limit value without appropriate measures is not permitted by law.

Legal basis for occupational health and safety: Occupational Health and Safety Act § 5 ArbSchG| Hazardous Substances Ordinance § 7 GefStoffV Technical Rules for Hazardous Substances TRGS 900, TRGS 528

**Are you sufficiently equipped?
We support you.
REHM hotline: 07161 3007-77**

Now is the time to act!

Welding machines are comparable to a vehicle fleet in terms of their exhaust emissions: Working with **older devices** (with a conventional spray arc) is not only slower, it also produces **vast amounts of toxic welding fumes** and the result also requires **reworking with a large amount of grinding dust**.

1. Problem identification through competent REHM advice

We determine your individual requirements on site, develop the right concept for you and find the solution with the right equipment and accessories. Always tailored to the existing conditions.

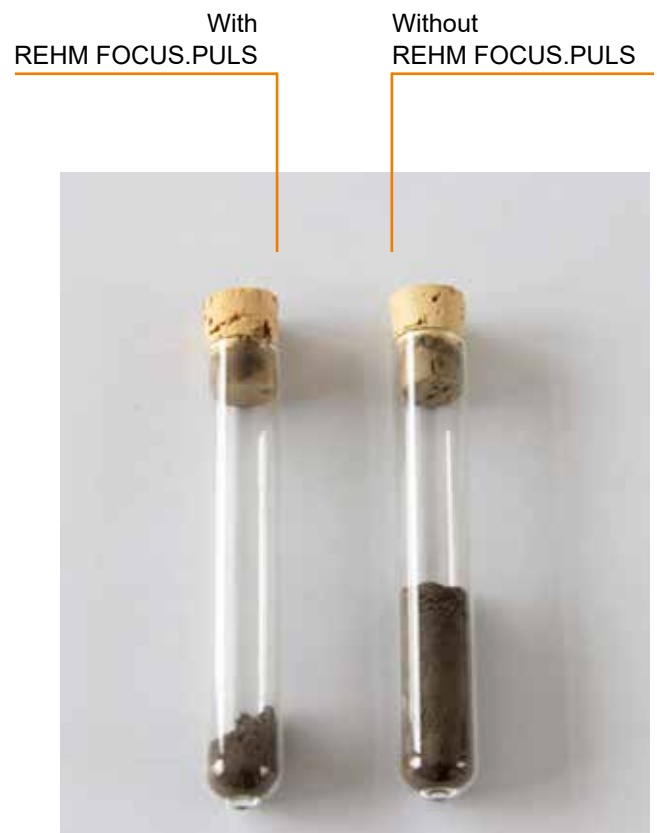
2. Avoid pollutants by use of REHM technology

The integrated pulse-controlled REHM **FOCUS.PULS** welding process produces around 70 % fewer pollutant emissions during steel welding compared to a conventional spray arc and also leads to 80 % less sanding dust.

Using the REHM **FOCUS.PULS** process not only means less welding fumes are released. Due to the increased wire feed speeds compared to the spray arc, the welding speed and therefore the welder's productivity increase while the A dimension remains the same.



Certified by the RWTH Aachen. The REHM FOCUS.PULS generates up to 70 % less welding fumes.



Welding fume emission when welding 1 kg of solid wire.

REHM has the right solution.

Modern welding technology from REHM impresses with significantly **less welding fumes** for an attractive workplace that does more than just comply with current legislation.
With a **higher working speed** and **more precise weld seam** at the same time.

3. Contain residual risks with effective accessories from REHM

The combined and targeted use of accessories helps to keep the working environment even cleaner. Residual hazards are captured by room extraction or by extraction burners and extraction systems and safely dissipated and averted by PPE products such as hard hats and respiratory protection.

We have a large selection of accessories to suit your needs.

Exemplary solution for optimum welding fume prevention and (over)fulfillment of legal requirements

- + MIG/MAG welding machine
FOCUS.ARC P 300
Article no. 1307055



- + 3M™ welding and grinding mask
G5-01* with 3MTM Adflo™ blower system
Article no. 8470470



- + Profi high vacuum suction unit
KEMPER VacuFil Compact
Article no. 8500454



- + Fume extraction torch RAB 8XE Mini Gas 4m#
Article no. 7600531



*G5-01 without automatic welding filter (ADF)
#also available as water-cooled version

4. Benefit from the right REHM solution

Regardless of whether you opt for a coordinated standard package or an individual solution - you will enjoy these advantages and benefits in any case:

- Compliance with legal requirements
- Cost savings through less rework, less downtime, fewer days of absence
- Increasing employee satisfaction, less fluctuation, no shortage of good staff
- Increasing profits through efficiency
- Reducing emissions without sacrificing efficiency and quality
- Conformity with regulations of the Professional Associations

Take advantage of the REHM benefits!
We will be happy to advise you.
REHM hotline: 07161 3007-77

REHM releases fine dust (welding fumes and grinding dust) not a chance!

As a developer and manufacturer of innovative technologies, we have been producing exclusively in Germany for over 50 years, thus guaranteeing the outstanding processing quality of the devices, which can withstand even the most adverse environmental conditions.

70 % less welding fumes
80 % less grinding dust
with **FOCUS.ARC® P**



The **FOCUS.ARC® P** welding machine provides you with exactly the benefits you are missing when MIG/MAG welding with conventional welding machines. By using REHM welding processes, you achieve high quality results, whether steel, stainless steel or aluminum, which avoid reworking or at least reduce it to a minimum. This has a positive effect on the economic efficiency of every work process.

In addition to its high efficiency, other major advantages of the **FOCUS.ARC® P** are up to 70 % reduction in welding fumes and up to 80 % reduction in grinding dust compared to conventional MIG/MAG welding processes. These are decisive factors in terms of general health protection, with cleaner breathing air, less noise and less soiling of surfaces.

Reduction of up to 95 %
welding fume exposure with
RAB 8XE Mini



The **RAB 8XE Mini** is a welding torch with integrated welding fume extraction.

The torch can easily be connected to a central extraction system or to a stand-alone, mobile extraction unit, enabling mobile working. Due to the special shape of the extraction head on the inside, the shielding gas flows out at a higher speed.

The combination of faster gas outflow and optimum extraction performance at the extraction head ensures excellent welding quality in all welding positions.

KEMPER CleanAirTower
room extraction system



The **CleanAirTower** is the plug & play solution for effective cleaning of the entire hall air. The tower is used as a supplement wherever spot extraction is not sufficient for welding fumes. It also protects employees in surrounding workplaces.

The new **CleanAirTower** has been redesigned both technically and visually. The technical modifications, above all the newly designed intake element, have many advantages. Visually, the tower impresses with its new, clear design.

With the new **CleanAirTower**, you benefit from a 20 % longer filter service life, 10 % more extraction power, increased protection against sparks and less maintenance for cleaning work.

IFA-approved welding fume extraction unit W3

The REHM system for environment and health

Our developers are continuously working on the goal of optimizing welding technology for industry and trade. Each newly developed welding machine sets new standards for modern welding in demanding applications and in terms of effectiveness, economy and emission reduction.

Suction unit KEMPER VacuFil Compact



The **KEMPER VacuFil Compact** is equipped with an extra large, vertically mounted filter cartridge for particularly effective cleaning. The separation efficiency is more than 99.9 % and effectively protects welders in industrial applications against the finest particles in welding fumes.

The child's play one-button operation makes it easy to set the appliance, even when wearing gloves. An optional automatic extraction power control ensures that the set extraction power always remains constant - like cruise control.

With the automatic start/stop function, the appliance only runs when and for how long it is needed. Compared to other appliances, the silencer significantly reduces the noise level and makes working more pleasant.

PPE products 3M™ Speedglas™ G5-01* with 3M™ Adflo™ blower respiratory protection



The **3M™ Speedglas™ high performance welding mask G5-01** offers the best protection for your eyes, with an excellent view of the welding spot, for safe and fatigue-free work. The new helmet design also offers optimum protection against radiation, sparks and splashes.

The **Adflo™ blower unit** has the highest respiratory protection classification and provides a continuous and individually adjustable supply of pollutant-free fresh air. This is good for your health and allows you to stay focused at work.

*G5-01 without automatic welding filter (ADF)

With REHM ERGO WORK to the perfect workplace



With **REHM**, you can benefit from solution-oriented advice, our innovative welding equipment, optimum extraction systems and the right PPE from our strong partners to create the perfect, tailor-made workplace for you.

This **perfect workplace** not only increases efficiency, but also creates a good and safe working environment for your employees.

**Do you have any further questions?
We will be happy to advise you.
REHM hotline: 07161 3007-77**

THE REHM PERFORMANCE PROGRAM

- REHM MIG / MAG welding machines
- REHM TIG welding machines
- REHM MMA electrode inverter
- REHM PLASMA cutting systems
- Welding accessories and consumables
- Welding fume extraction
- Technical welding advice
- Torch repairs
- Service

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