

FILTER TOWER R SERIES



ABSAUGWERK



Advantages

- × Plug & Play in just 1 minute
- × Fully automatic operation
- × Healthy and hygienic indoor air
- × Low sound level with maximum performance
- × Compact design, flexible use
- × HEPA H14 filter for fine dust, viruses & bacteria
- × Low impulse 360° exhaust
- × Highest energy efficiency
- × Long filter service life, minimum maintenance effort
- × Sophisticated design

FILTER TOWER R SERIES

The Plug & Play filter tower for hall ventilation ensures healthy indoor air in industry and trade and at the same time improves product quality – the ideal supplement if selective extraction is not sufficient or practicable.

Industrial processes such as welding, tacking, or separating produce harmful fumes that must be safely extracted to protect employees, products, and machines. If local extraction is not sufficient to comply with the *legal dust limits in the workplace** or if large workpieces are processed, further measures are required for ideal room ventilation.

The flexible hall extraction based on the Plug & Play principle saves time-consuming installation work. Without fixing piping, the filter tower is immediately ready for use and can be retrofitted in existing or rented halls.

Sophisticated technology and design make it an efficient air purifier for industry, trade, and commerce.

*** TRGS 528 | Technical rules for hazardous substances:**

Welding work produces respirable gases and fumes with harmful effects that must be safely extracted to protect employees. The relevant and binding limit values can be found in TRGS 528.

20 %

**Longer
filter service life**

With grooved
nano-coating

360°

**Draft-free
all-round exhaust**

For optimal
room air distribution

70 %

**Lower
heating costs**

Through effective
heat recovery

63 dB(A)

**Lower
noise level**

With a capacity
of 10,000 m³/h

Performance: 12,500 m³/h | 4.3 kW

A new era

**Space-saving
with only 1.56 m²**

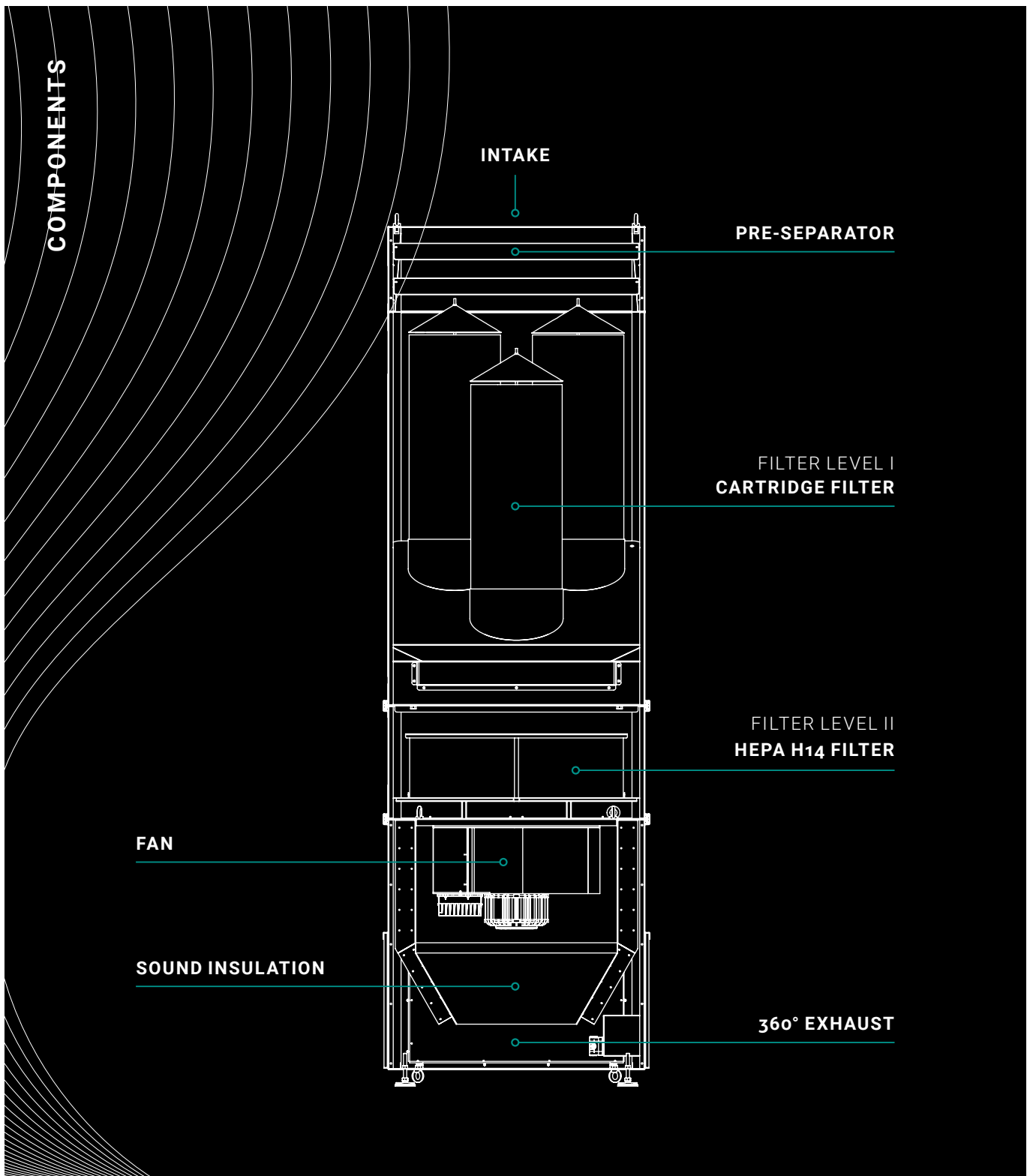
**Ready to use
in just 1 minute**

The filter tower creates a safe working atmosphere for employees through a controlled air flow and at the same time protects products and machines from contamination by coarse and fine particles. With an air volume of 12,500 m³/h, up to 99.8 % of all pollutants are filtered out of the air.

The mobile extraction system is used in metal-working companies. One unit can filter the air in rooms up to 350 m². Several units can be used at the same time for larger halls or in the case of high welding fume generation. No pipes are required for the installation, so the filter tower can be retrofitted easily and inexpensively. Maximum flexibility and quick installation make it universally applicable.

For processes such as

**Welding
Tacking
Separating
Soldering
Flame cutting
and much more**



Filter

Permanent filter cartridges
Dust class M
Aut. jet-pulse cleaning

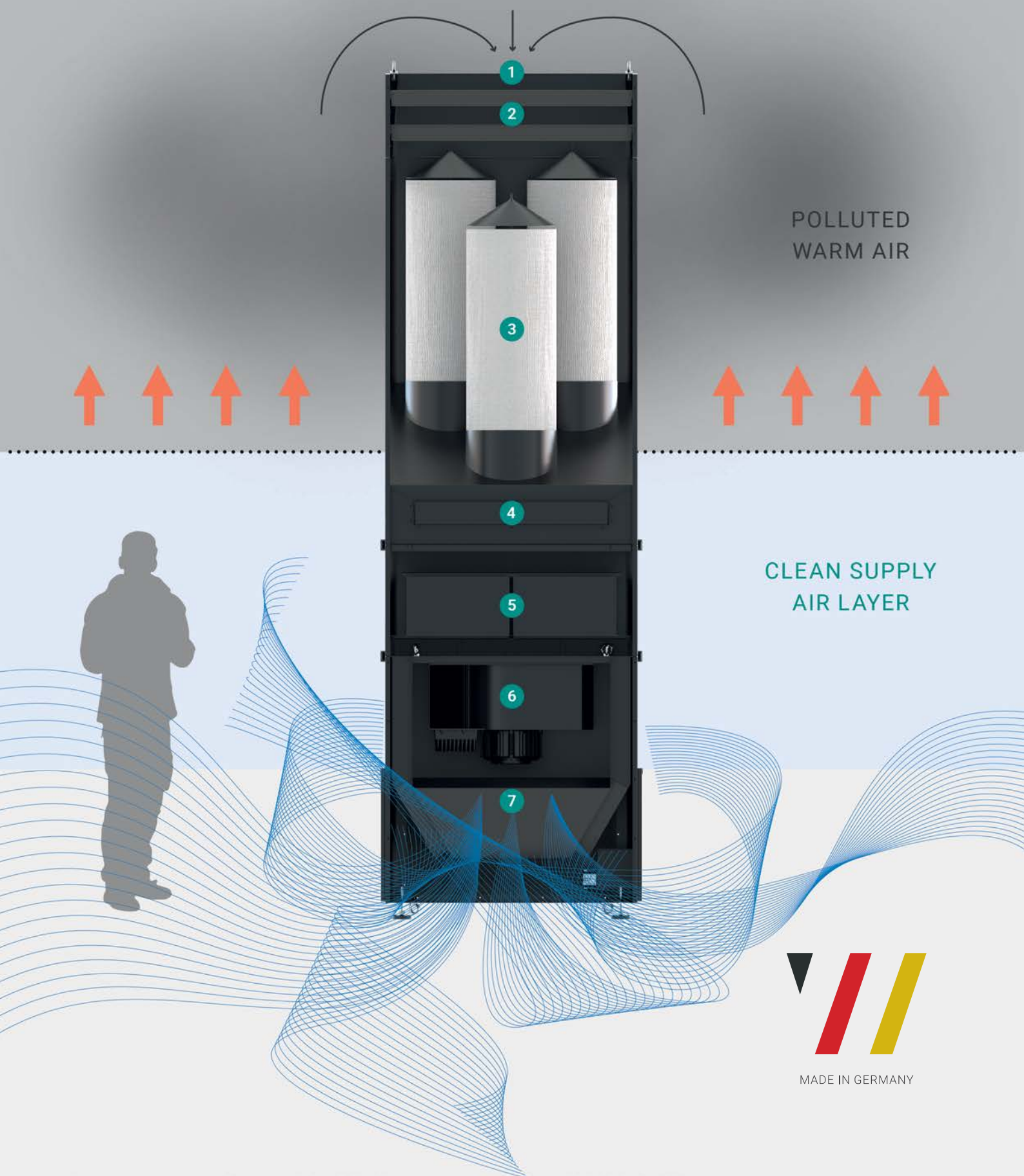
Options

HEPA H14 filter (*retrofitable*)
Individual color & branding
for dealers

Set-up

Electricity and compressed air connection
No pipelines required
Safe installation with crane lugs

Clean air: Layer by layer



MADE IN GERMANY

A proven system in hall ventilation is layered ventilation according to the IFA recommendation. The warm, polluted air rises due to its thermal properties. There it is extracted and filtered at the extraction area on top of the filter tower. The cleaned air is returned draft-free to the hall near the floor. In the lower area, a protected zone (*fresh air lake*) is created for employees and machines with almost outside air quality.

Filter tower technology:

1 INTAKE

Thermal currents cause the polluted air to rise to the top, where it is extracted via a top inlet.

2 PRE-SEPARATOR

Coarse particles and possible sparks are separated before they reach the main filter. This minimizes the risk of fires and significantly increases the filter service life.

3 FILTER LEVEL I

The main filters in application category M filter 99.8 % of all residual pollutants from the air and can be cleaned using a fully automatic jet-pulse cleaning system.

4 DISCHARGE

The dust discharge guarantees a comfortable and low-dust disposal of the separated substances.

5 FILTER LEVEL II

The optional HEPA H14 filter captures fine dust, viruses, germs and carcinogenic emissions such as e.g., stainless steel dust.

6 FAN

The built-in EC fans with IE5 technology are energy-saving, extremely quiet and yet powerful.

7 EXHAUST

The cleaned air is fed back into the room with low impulses via the 360° exhaust in the floor area.

HEPA H14 FILTER

FILTERS 99,995%
OF ALL FINE DUST &
VIRUSES

Fig. left: Layered displacement of the polluted air due to thermal buoyancy.



Sustainably **efficient**

Ventilation systems not only serve to clean the room air, but can also save energy. The warm air can be retained in winter through air recirculation and distribution in recirculation mode. This significantly reduces heating costs. The automatic adjustment of the air output as required reduces power consumption and at the same time lowers operating costs.

50%

Less
energy costs

70%

Less
heating costs

SAFETY

- Certified HEPA H14 filter
- Filtering of pollutants from the air
- Fewer cases of illness thanks to healthy ambient air and good indoor climate
- Noise protection through soundproof construction

EFFICIENCY

- Energy and heating cost savings
- Highly efficient EC fan with IE5Technology
- Little resistance and maximum ventilation performance thanks to the Direct-Flow principle
- Frequency converter to regulate the air flow

ENDURANCE

- Long filter service life due to highly effective filter material and integrated pre-separator
- Automatic jet-pulse filter cleaning during operation
- Quality »Made in Germany«

APPLICATION

- Flexible use, retrofittable at low cost
- Clean working environment
- Minimal maintenance effort
- Lower machine cleaning costs
- Large, accessible inspection opening for easy filter changes



Get funded up to 40%!

The Federal Office of Economics and Export Control (BAFA) and the Reconstruction Loan Corporation (KfW) offer a federal subsidy program to increase energy efficiency in industry. Small and medium-sized companies can apply for a 40 % subsidy for our filter tower.*

We are happy to advise you on the application and implementation.

**BETTER.
HEALTHY.
WORK.**

Sophisticated design

**Efficiency meets technology in
an effective design.**

The rounded corners and the interplay of materials create a strong aesthetic quality on the outside. But also inside the system, the low-edge design and an ideal air flow ensure low pressure loss and few deposits.





real. better.

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Let us network!



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