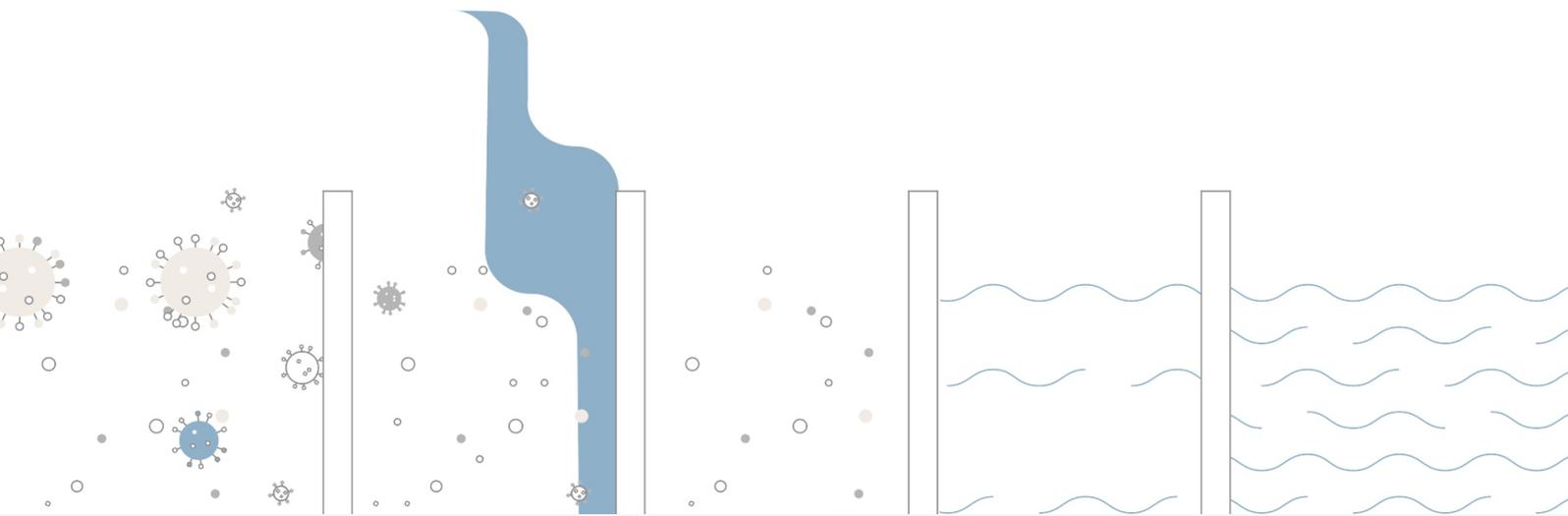


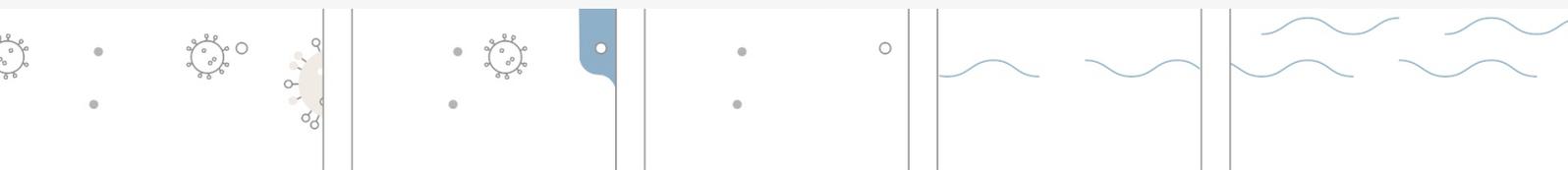
MAVENET

HEALTH CARE INNOVATIONS



PRODUCT INFORMATION

MavAir® Professional





MavAir® Professional

is a mobile room air cleaner with scientifically proven reduction of odours and aerogenic noxae (pathogens, impurities)



Reference
Picture

1. IMPROVEMENT OF INDOOR AIR QUALITY WITH THE UNIQUE 4D PROCESS

In the course of a lifetime, a person consumes an average of 35,000kg of food, 70,000kg of water and 350,000kg of air. No form of nourishment is more important to people than air. MavAir® Professional cleans this most essential nourishment with the unique 4D process.

D1 – Particle filter

The particle filter (F7) removes large particles, fluff from carpets and human and animal hair. The prefilter extends the service life of the ULPA filters (U15). This filter must be replaced every 3 months.

D2 – Cold plasma filter

The cold plasma filter sets the MavAir® Professional by MAVENET Health Care Innovations apart from ordinary room air purifiers. An energy discharge creates a plasma field. This uses cold plasma to remove organic carbon compounds from the incoming air. The plasma oxidises filter gases, dissolves odours and inactivates fungi, viruses, allergens and bacteria. They are then no longer harmful to humans. Minute particles are aggregated, making it even easier for the ULPA filter (U15) to detect even the smallest and respirable particles.

D3 – Activated carbon filter

The carbon filter is responsible for the fresh odour coming from the unit. Oxidized gases can decompose naturally into their original substances. Carbon filters cannot be cleaned. Replace the filter at least every 12 months.

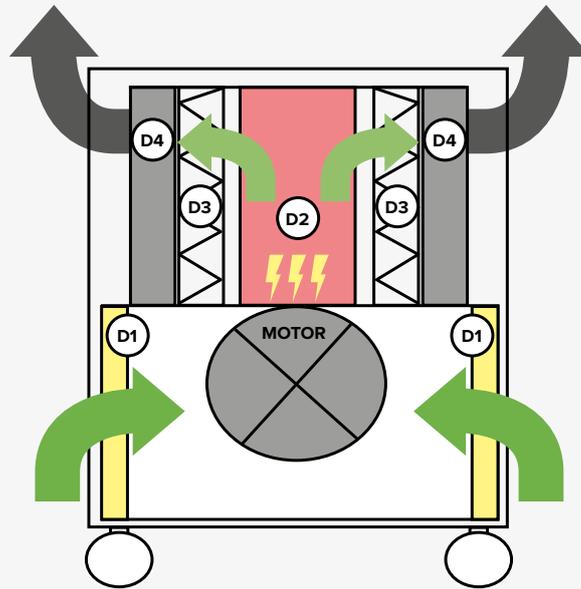
D4 – ULPA filter (U15)

The ULPA filter (U15) removes the smallest respirable particles such as viruses, bacteria and fungi. The particle aggregation of the plasma reactor makes the filter even more efficient.

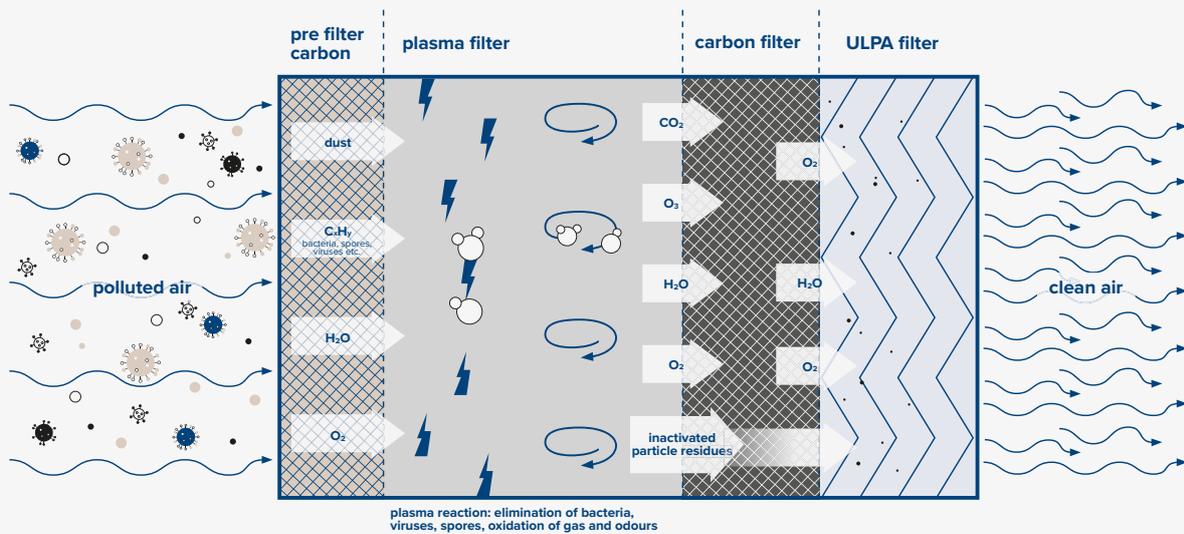
In HEPA/ULPA filters that are operated without a plasma stage, the germs, viruses, spores and bacteria are not inactivated and once they have grown through the filter, they can be distributed again in the room on the discharge side.

Replace the ULPA filter at least every 6 months – and more often if the particle load of the filter at the place where it is used makes this necessary. If the ULPA filter is used continuously in contaminated rooms, the ULPA filter should be replaced earlier if necessary. ULPA filters (U15) cannot be cleaned but must be replaced.

FUNCTIONAL DIAGRAM MAVAIR® PROFESSIONAL THE 4D AIR CLEANING PROCESS



4D AIR PURIFYING PROCESS



2. AIR EXCHANGE RATE

The MavAir® Professional can only deliver the best results if a certain part of the room air can be captured. As a rule, the quality of the room air is improved if the air volume in the room is circulated at least about 4 times per hour. In the case of a higher pollutant content and stronger odour, a higher air exchange rate may be useful. The possibility of using the MavAir® Professional is therefore influenced by the nature of the room. Furniture, partitions, an air conditioning system, open doors and windows can have an influence on the air circulation function of the appliance. The air exchange rate is calculated as follows:

$$\frac{\text{m}^3/\text{h capacity MavAir}^{\circledR} \text{ Professional}}{\text{Volume m}^3} = \text{air exchange rate/h}$$

MavAir® Professional has a capacity of 800m³/h, which is regulated in 5 stages:

1. Stage: 100m³/h
2. Stage: 200m³/h
3. Stage: 400m³/h
4. Stage: 600m³/h
5. Stage: 800m³/h

If a room has a volume of 50m³ and the MavAir® Professional runs at level 2 (200m³/h), the air exchange rate is calculated as follows:

$$200\text{m}^3/\text{h} : 50\text{m}^3 = 4\text{-fold air exchange rate/h}$$

3. CLEANING THE HOUSING

Wear suitable protective clothing when cleaning the device.

The housing of the MavAir® Professional is made of stainless steel inside and out. Disconnect the power supply (pull the mains plug) before cleaning the appliance. The advantage of stainless steel is that it is antibacterial. Clean the inside and outside of the device with common disinfectants. Do not use the device again until it is completely dry. Only then is the device ready for operation again.

The blower motor and the plasma filter are maintenance-free.

4. MOVING THE DEVICE

The MavAir® Professional is equipped with 4 castors. The brakes on the castors can be activated by pressing them down and released by pulling them up. When moving the appliance, protect the power cord from being rolled on.

5. GAS AND ODOUR ELIMINATION

Odours are generally very complex and often a mixture of hundreds of compounds that cannot all be tested.

Common unpleasant odours such as cigarette smoke, food odours, sanitary odours, etc. are eliminated. At the same time, the germ load of colony-forming units, viruses, pollen, spores (including moulds), bacteria and respirable particles is significantly reduced or completely eliminated, which qualifies the device for a wide range of applications. The table on the following page gives you an overview of a selection of gases and odours which are rendered harmless by the MavAir® Professional.

SAFETY NOTICE: The MavAir® Professional may not be operated in rooms where flammable gases are emitted!

MavAir® Professional Odour elimination

| QUELLE | REINIGUNSWIRKUNG | BEMERKUNGEN |
|-------------------------------------|------------------|---|
| Acetone | very good | |
| Acrylic liquids | good | Acrylic adhesive with very unpleasant odour |
| Benzaldehyde | good | Smells of almonds- odour perceptible at low concentration |
| Benzene | very good | Odour perceptible at high concentration |
| MEK Methylethylketone reference gas | good | |
| Chloranisols | very good | |
| Collodion | good | |
| Ethanol 94% | very good | |
| Heating oil, diesel | very good | |
| Litter box | very good | |
| Kitchen, food smell | very good | |
| Naphthalene | good | Odour perceptible at low concentration |
| n-Butanol | very good | |
| n-Butylacetate | very good | Odour perceptible at low concentration |
| Phenol | very good | Odour perceptible at low concentration |
| Meat, sausage, fish | very good | |
| Incontinence, Toilet smell | very good | In Raucherräumen regelmäßiger Filterwechsel erforderlich |
| Cigarette smoke, Passive smoking | good | In smoking rooms regular filter changes are necessary |

10. TECHNICAL DATA MAVAIR® PROFESSIONAL

- ▶ Suitable for a room size $\leq 50\text{m}^2$ with a room height $\leq 3,30\text{m}$
- ▶ Dimensions: L 605mm x B 422mm x H 760mm
- ▶ Air circulation rate: $800\text{m}^3/\text{h}$
- ▶ Connection value: 230 V 50 Hz, max. 130 Watt
- ▶ Safety symbol: CE
- ▶ Connection: power supply unit/earthed plug
- ▶ CO_2 -particle sensor to control the devices
- ▶ Weight: 50kg
- ▶ Filter technology in four stages – 4D:
 - D1: F7 particulate filter
 - D2: Cold plasma filter
 - D3: Activated carbon filter
 - D4: ULPA filter (U15)*
- ▶ Housing: antibacterial stainless steel (outside: powder-coated, inside: polished)
- ▶ Integrated pressure sensor technology for filter wear analysis
- ▶ Country of manufacture: Germany – "100 % made in Germany"
- ▶ Production: according to medical devices-Standard (DIN 13845)

* ULPA filter (ULPA = Ultra-Low Penetration Air) of filter class U15 according to EN1822-1:2009 made of hydrophobic membrane with a local separation efficiency of $> 99.9995\%$.

11. GUARANTEE

The MavAir® Professional is a quality product. The warranty is 2 years.

Pre-filters, ULPA filters (U15) and activated carbon filters are excluded. Proper use and proof of purchase are the conditions for the guarantee. The warranty period starts on the day of purchase.

CONTACT

MAVENET GmbH
Pestalozzistraße 23 | 10625 Berlin

Phone: +49 30 39 82 044-01

Fax: +49 30 39 82 044-99

www.mavair.de | www.mavenet-innovations.com
zentrale@mavenet-innovations.com

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