

Room air cleaner TAC V+

High-performance air cleaner "Made in Germany" for filtering viruses in production, logistics, order picking and mail and parcel distribution centres



- Effective air purification and virus filtering:** developed for continuous operation in shipment preparation, production or distribution areas - virus-contaminated aerosol clouds are sucked in, viruses are filtered and clean air is blown out
- "Clean-Zones-Areas":** Establish safe zones with virus-free filtered breathing air at airline level - individually dimensioned according to the number of devices and persons and the set air exchange rate
- "Plug & Play"** - set up, plug in, switch on, done. Room filtration independent of existing air conditioning and ventilation systems.
- Saving resources:** 100 % environmentally friendly, no chemicals, no installation effort
- Effective air filtration:** F7 pre-filter and HEPA H14 main filter with 99.995 % separation efficiency for particle sizes from 0.1 to 0.2 μm
- Unique in the world and exclusive to Trotec:** automatic filter regeneration through thermal virus decontamination - first the viruses are separated in the heat-resistant special filter and then regularly thermally inactivated there!
- High-quality materials and workmanship:** "Made in Germany" - original Trotec manufacture, virus special filter with individual testing and test certificate
- Flexible positioning:** simply place the mobile TAC V+ where it is needed

H14 clean air capacities	TAC V+	
Maximum discharge air volume without filter in m ³ /h	2,300	
Outlet air volume in m ³ /h with HEPA-H14 filter	1,600 ¹	
Clean zone area in m ³ at 5 air changes/hour	320	SECURITY LEVEL ↓
Clean zone area in m ³ at 10 air changes/hour	160	
Clean zone area in m ³ at 15 air changes/hour	107	
Clean zone area in m ³ at 20 air changes/hour ²	80	

¹ Filter efficiency class H14 $\leq 1,200$ m³/h certified according to DIN EN 1822
² Clean room airline standard

With the TAC V+, you can decide for yourself which security level is best suited to your requirements: the higher the air circulation and thus the rate of air exchange (LW), the lower the time viruses remain in the room air and thus the lower the risk of infection. The level of the air exchange rate also determines the radius of action of each individual high-frequency air cleaner. A basic protection can be achieved from 5 LW, but for a significant risk protection in fully occupied rooms we recommend air exchange rates between 10 and 20 LW, because the primary goal is to prevent breathing the air from different people as much as possible. And if an employee expresses the concern that a higher degree of protection is required, e.g. because he or she belongs to a risk group, this can be adjusted separately for each clean-zone area individually directly on each device that treats the relevant zone in which that employee is located.

NEW

The TAC V+ high performance air cleaner reduces the risk of aerosol infection in endangered work areas: ideal for picking and sorting areas, logistics and distribution centres.

More and more experts confirm that a viral infection via the air is probably the most decisive route of infection. Recent studies suggest that, especially when speaking, viruses are released into the environment in the form of aerosol clouds and can remain in the air for hours.

Play it safe with high-frequency air purification

Trotec promotes aerosol control in indoor air as a decisive measure right from the start and, as the first address for professional air treatment solutions, can therefore also offer you the first highly effective air cleaning device with integrated virus decontamination!

Virus-free air reduces the aerogenic risk of infection to zero

If the air in a room can be kept largely free of germs and viruses, the risk of aerogenic infection in work areas is minimised.

Our high-frequency air cleaner TAC V+ was developed exactly for this task, because it effectively and quickly reduces the dwell time and intensity of aerosol and clouds of suspended matter in closed rooms, thus creating an environment with greatly reduced risk of infection for employees and visitors.



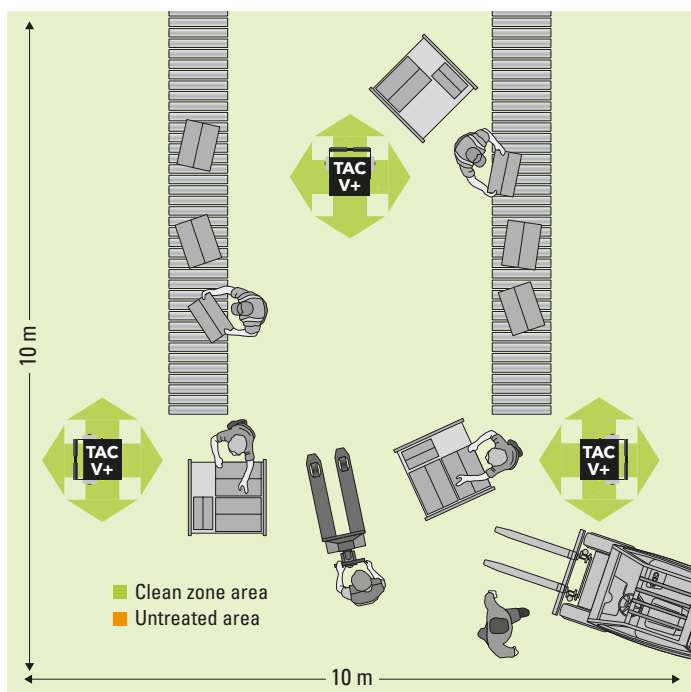
The TAC V+ enables the large-volume intake of polluted room air with effective H14 HEPA filtration and a flexibly adjustable flushing of the room, free from airborne aerosols.

Exterminate aerosol clouds within minutes

At the installation site, the mobile high-frequency air cleaner creates a "clean zone area" flushed with virus-filtered clean air. In this zone, the ambient air remains largely free of airborne germs and viruses, because the TAC V+ enables the large-volume intake of contaminated room air with effective H14 HEPA filtration and a flexibly adjustable zone flushing with virus-filtered clean air, free of aerosol particles.

Worldwide unique filter decontamination

The special filter used in the TAC V+ not only reliably retains 99.995 % of all aerosol particles larger than 0.1 µm - the filter is also heated cyclically, which inactivates all viruses separated in the filter and thus "decontaminates" the filter 100%. **This thermal self-regeneration function of the H14 special filter is unique in the world and only available from Trotec!**



Example of a parcel picking zone: With a surface area of 10 x 10 m and a height of 5 m, the work area shown has an air volume of 500 m³, which 3x TAC V+ can circulate 9.6 times per hour (air capacity of 4,800 m³/h), which corresponds to an air exchange rate (LW/h) of about 10.

Technical data room air cleaner TAC V+

- Air flow rate freely blowing max. 2,300 m³/h
- Air flow rate with HEPA H14 1,600¹ m³/h
- Realizable Clean-Zone-Area depending on the selected air exchange rate per hour (LW/h), see table on front
- Air filter pre-filter F7 (EN 779:2002), ePM10 85% (ISO 16890)
- HEPA air filter Trotec HEPA-H14 Heat Resistant
- Exemplary energy consumption approx. 6 kWh / 12 h with 2 regeneration cycles daily and 12 h operating time
- Sound level 54 dB(A) at 1,100 m³/h, distance 1 m
- Power supply 220-240 V 50 / 60 Hz 2,950 W
- L x W x H / weight 580 x 620 x 1,300 mm / 79 kg



Room air cleaner TAC V+

It's always a good investment, also for "post-Corona-times".



The TAC V+ high performance air purifier not only filters viruses, but also dust and microfibers from paper and textiles directly at the workplace - ideal for work areas exposed to dirty air.

Even "after Corona" the TAC V+ remains a valuable investment as a universal problem solver. On the one hand, this high-performance air purifier can also protect employees and visitors effectively from aerogenic infection from flu viruses during the annually recurring flu waves.

On the other hand, in many production areas there is sometimes a high level of fine dust contamination, for example during order picking and at shipping points.

For example, handling of shipping boxes can cause increased fibre abrasion and fine paper fibres can pollute the room air. During textile processing or finishing, the air is quickly filled with numerous textile micro-particles.

Not only can this fine dust affect the health of employees, but it can also damage electronic components in computers, forklift trucks and other machines nearby, resulting in increased susceptibility to malfunction or premature breakdown.

Zone air cleaning pays off.

Especially smaller companies often shy away from investing in complete room installations of complex and expensive air cleaning systems for all indoor air.

And thanks to the TAC V+, such an overall investment is not necessary in practice.

Scalpel instead of sledgehammer

Why clean the air in a room 100% when dust is only partially generated in a few places and can be "filtered" much more cost-effectively directly at the place of origin?

The TAC V+ is mobile and cleans directly where the dust is generated. In an 8-meter-high hall with a desired air exchange rate of 10/h, for example, a single unit covers a working area of 20 square meters and - depending on the filtering equipment - keeps it free of germs, fine dust and microfibers.

And if the organization of work changes, the TAC V+ can simply be repositioned, because it is mobile and can therefore be used flexibly in different locations - a power socket is all that is needed.

Employers benefit in many ways from mobile room air cleaning with the TAC V+ in dusty work areas:

Clean air is valuable. Not only from a health point of view, but also directly from a purely economic point of view. Because professionally filtered air reduces cleaning costs, it results in less maintenance and downtime - and also fewer sick days.

- **More productive employees –**
Professional air purification reduces sick leave, because careless working conditions can affect health. Fewer days off, mean more productivity. Therefore, clean and filtered room air pays off directly.
- **Less maintenance –**
If dust accumulates unhindered, technical failures and costly process errors in dirty work areas are almost inevitable. On the other hand, with clean, filtered air, maintenance and production costs can be reduced noticeably, machines can be kept running for longer and downtimes can be significantly reduced.
- **Satisfied customers –**
The less dust there is in the operation, the cleaner the production and logistics will be. Reducing the amount of dust creates the best conditions for flawless delivery. This means a better image, fewer returns, stronger customer loyalty and a higher chance of follow-up orders.
- **Reduced cleaning costs –**
Dust that is extracted and filtered directly from the air cannot settle on inventory and furniture surfaces, so it does not need to be cleaned. Consequently, the cleaning effort related to dust is reduced considerably.