

Air Purifier

Air Infect Protect



Environmental Virus Clearance of Closed Spaces

e.g. Offices, Canteens, Hotels, Restaurants,
School and University Rooms, Gyms, etc.

Franz Ziel GmbH is a company based in Billerbeck, Germany and has almost 40 years of experience as a leading global provider of pharmaceutical systems and process solutions.

Ensuring aseptic conditions is our daily business. In order to live up to our guiding principle "PROTECTING LIFE WITH TECHNOLOGY", a high degree of responsibility and know-how is required.

Based on this know-how and proven technologies, we have developed an air purifier with a special focus on flexible and mobile use in the professional sector. Due to its multi-stage filter system, not only Covid-19 and other viruses are effectively reduced to a minimum, but the air is also cleaned of fine dust, bacteria and aerosols - for your employees and customers to breathe safely!

- High Quality „Made in Germany“
- Modern Touch Panel for intuitive operation
- Insulation for a non-disturbing background noise
- Rolers for an easy and flexible handling
- Appealing design in stainless steel or anthracite color for discreet room integration
- 1.500 m³/h air volume flow (AIP 1.5T) \triangleq e.g. the air requirement of approx. 50 people in the gastronomy or 75 people in the fitness area (according to DIN1946-2)
- Low-maintenance and thermally^{*/**} self-regenerating HEPA filter for effective and reliable air purification including aerosols and viruses



Touch Display

AIP 0.5T



AIP 1.5T

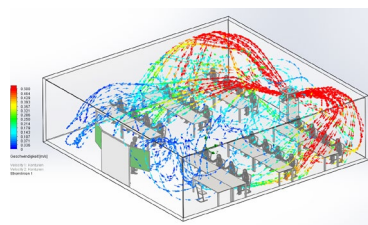
Available in stainless steel or in powder-coated version in RAL 7016

* "So that the room air cleaner does not turn into a virus spinner, the H14 filter should be heated up by the device once a day for around 30 minutes to around 100 ° C in order to destroy the viruses in the filter and prevent the development of biofilms, bacteria and fungi without harmful chemicals To counteract additives or UV-C radiation. "

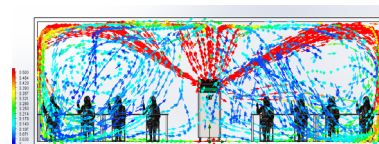


- We have almost **4 decades of experience** and know-how in the field of clean room technology for pharmaceutical applications.
- **Low background noise** for concentrated work, this is achieved through the use of the most **modern insulation**, which is unique for air purifiers of this performance class.
- **Thermal filter decontamination^{*/**}** can only be found on the market from very few suppliers, as it requires special know-how. However, it is crucial in order to prevent viruses from multiplying in the filter and infection of the maintenance staff when changing the filter.

- In contrast to most air purifiers, the Air Infect Protect sucks the air **evenly out of the room** in a ring-shaped manner on the underside of the device and releases it again through outflow openings with adjustable air grilles on 3 sides (AIP 1.5T) or up (AIP 0.5T).
- With a balanced ratio of flow through and exchange rate, the AIP ensures **optimal flushing of the entire room**.
- A special **filter seal** ensures that no unfiltered, contaminated air can pass by the filter to the outside.
- In addition to **reducing disease-causing aerosol concentrations**, the Air Infect Protect also removes any other suspended matter, such as pollen or fine dust from the air.
- **High-quality components** from German suppliers are used.
(Camfil, Siemens, Ziehl-Abegg, Kalthoff)



Air flow in the room



Air flow around the air purifier



Operation:

Operation is intuitive via a modern touchpad. The device can be operated in both manual and automatic mode. In weekly operation, for example, both air cleaning and filter regeneration are fully automatic.

Functional components

Components	Functions
Pre-filter F7	Pre-filtering the sucked in air
HEPA-Filter H14	High-performance filter for generating sterile air
Infrared heater with safety temperature sensor**	Decontamination of the HEPA-Filter
Touch-Display Unit	Control element for users
Insulation	Effective reduction of operating noise
Differential pressure monitor	Filter monitoring with display "filter change"
Air grille	Adjustable airflow
4 Rollers	Mobility
FZ Logo	Operating status: Green (normal operation) Red (malfunction) Yellow (filter change) Blue (decontamination)

** Currently not available for US market



Device data

Electrical connection data	Measurements H x B x T [mm]
AIP 1.5T	
230 V	device app. 1.550 x 650 x 600
app.500 W power consumption in recirculation mode	incl. handle & cable holder app. 1.550 x 656 x 740
app. 2.900 W short-term power consumption during decontamination**	weight app. 140 kg
AIP 0.5T	
230 V	device app. 1.250 x 500 x 440
app. 200 W power consumption in recirculation mode	incl. handle & cable holder app. 1.250 x 510 x 450
app. 1.100 W short-term power consumption during decontamination**	weight ca. 70 kg

Air Flow Rates AIP 1.5T

Level	Volume flow m ³ /h	Sound level dB (A)	Room volume at 6-times air exchange rate* m ³	Room size at 3 m ceiling height m ²	Room volume at 5 times air exchange rate m ³	Room size at 3 m ceiling height m ²
1	250	29	42	14	50	17
2	500	33	83	28	100	33
3	750	41	125	42	150	50
4	1.000	43	167	56	200	67
5	1.250	47	208	69	250	83
6	1.500	51	250	83	300	100

Air Flow Rates AIP 0.5T

Level	Volume flow m ³ /h	Sound level dB (A)	Room volume at 6-times air exchange rate* m ³	Room size at 3 m ceiling height m ²	Room volume at 5 times air exchange rate m ³	Room size at 3 m ceiling height m ²
1	300	38	50	16	60	20
2	400	42	67	22	80	27
3	500	45	83	28	100	33

* As recommended by the University of the Federal Armed Forces in Munich,
Institute for Fluid Mechanics and Aerodynamics