



SHAFIR TECHNOLOGIES

שפיר טכנולוגיות

PROTECDENT

PROTECTION OF THE PRACTITIONER BY ULTRA-FILTRATION AIR– 99,999% @0,3 μm

Main function

With the end of the confinement and the return of consultations and treatments, dental offices and clinics will have to equip themselves with protective equipment. In addition to personal protective equipment (PPE), active equipment capable of channeling contamination and neutralizing it at the source must be provided.

Due to the special nature of oral therapy, contamination due to droplets and aerosol sprays may contaminate the practitioner as well as the environment.

Thanks to our 50 years of experience and our management of air contamination, the Manufacturer teams were able to develop a specific system in record time effectively protecting the practitioner and his environment.



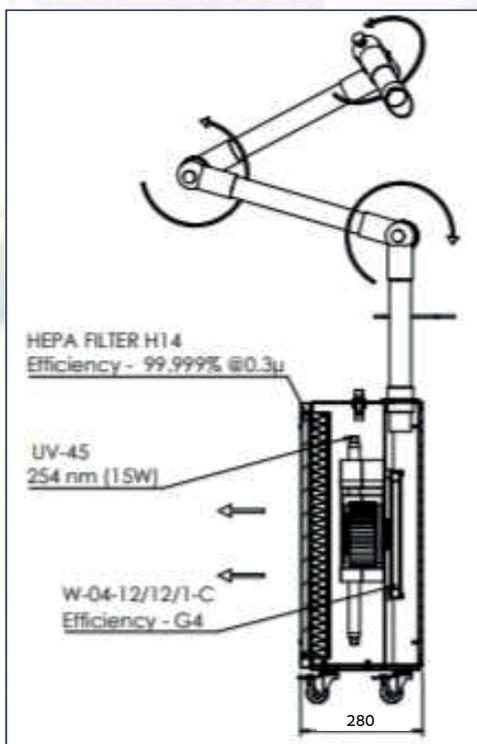
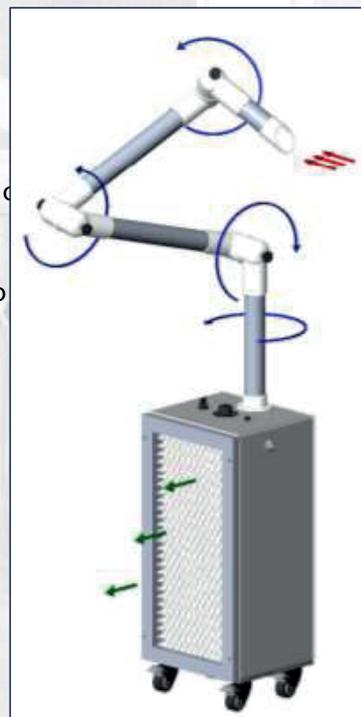
FUNCTIONNING PRINCIPLES

The air flow is generated at the patient mouth level creating negative pressure and a large suction in order to protect the practitioner from possible projection. The air is guided to the filtration unit where it is pre-filtered by a G4/Merv 7 type filter and then filtered by an HEPA H14 type absolute filter with an efficiency greater than 99.999% @ 0.3 μm . A germicidal UV lamp will continuously sterilize the filtration plenum, in which all the fine particles carrying any pathogenic microorganisms will have been trapped.

- The suction cone collects the droplets. In the diagram on the right, this flow is symbolized by red arrows (contamination). The ultra-filtered air comes out through the HEPA filter (green arrows) and contributes, in addition to protecting the practitioner and the environment, to continuous improvement of the air quality in the room
- Note that if the telescopic arm is not used (possibly in routine mode without risk of virus) the module can be transformed into an air filtration unit for a room of 20 m²

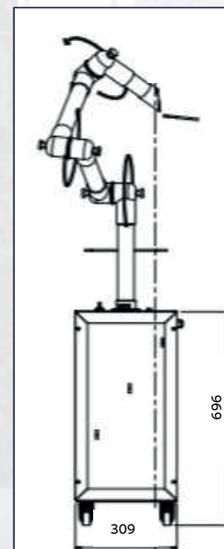
components - section below

- A G4/Merv 7 prefilter stops particles from 1 to 10 μm
- The H14 HEPA filter traps all particles (100% of possible viruses)
- Brushless motor (fan)
- UV lamp - Germicide 254 nanometers
- Generation of ultra-filtered air. The local air quality is continuously improved



Technical specifications

Model	FANJET 36
Voltage	220V - 50 hz
Power	250W
Air flow	300 m ³ /h
Sound level	52db
Filtration efficiency	99,999% @0,3μm
Size	305x610x250 mm
Net weight	15,5kg with wheels
Flange diameter	50mm
Filter layer	2 layers + UV
Length of folding arm	1,4m
Diameter of folding arm	50mm



Detailed FFU measurements



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