



A Donaldson Company

A WORLD LEADER IN FUME
EXTRACTION TECHNOLOGY

DENTALPRO AEROSOL

AEROSOL REMOVAL

Integrated, non-intrusive fume extraction solution

Three-stage filtration, with HEPA filters removing
99.997% particles @ 0.3 microns

An ideal addition to any dental
setting to capture contaminants
at source, offering maximum
protection and minimal
interference.

DENTALPRO AEROSOL

FOUR PIECE MULTI-POSITIONAL ARM AND NOZZLE

FULLY PORTABLE WITH FLEXIBLE ARM

HEPA / ADVANCED CARBON FILTER TECHNOLOGY

DIGITAL SPEED CONTROL



Health hazards in dental surgeries

The transmission of dental aerosols is a hazard faced by dental staff every day. Procedures that use low- or high-speed handpieces, ultrasonic scalers, air polishers, or air/water syringes create bioaerosols and spatter. Understanding and minimising these risks will help protect the health of dental staff and reduce the chance of infection transmission.

Inhalation of airborne particles and aerosols produced during dental procedures may cause adverse respiratory health effects and bidirectional disease transmission.

Dental personnel and patients are exposed to tens of thousands of bacteria per cubic metre, and the potential to breathe infective material that is aerosolised during routine procedures is high.

Viruses, such as COVID-19 (measuring 120-160 nm), spreads primarily through droplets of saliva or discharge from the nose when an infected person coughs or sneezes. It is therefore essential that the risk is removed at source before causing further infection.

Read more about the health risks faced by dental staff and what can be done.



THE IDEAL PORTABLE EXTRACTION AND FILTRATION SOLUTIONS FOR ANY DENTAL SURGERY

Airborne droplets

Aerosols are defined as liquid or solid particles less than 50 micrometres in diameter. 90% of aerosols produced in dental settings are extremely small. The use of PPE alone does not offer sufficient protection.

[Read more about the benefits and limitations of face masks and extraction systems.](#)

PARTICLE TYPE	SIZE	RISK
Spatter	> 50um	Visible to the naked eye and will fall until it comes into contact with a surface
Droplet	≤ 50 um	Remain suspended in the air until they evaporate, leaving droplet nuclei
Droplet nuclei	≤ 10 um	Can contaminate surfaces in a range of three feet and may remain airborne for 30-120 minutes. Considered to convey a high level of risk of infection transmission - if inhaled, they can penetrate deep into the respiratory system.



BOFA HAS THE ANSWER

We are experts in dealing with hazardous airborne materials and gases and have been designing and developing portable dust and fume extraction systems for over 30 years. Our products have been developed with industry experts to ensure they address the specific needs of dental clinicians.

We work with dental facilities of different sizes and processes to ensure they have the very best solutions for their needs. Our stylish products work in harmony with your processes and

have been developed to provide affordable solutions to any size dental facility.

Our HEPA filters are tested to filter 99.997% of particles at 0.3 microns, well exceeding the 95% of filtration that N95 face masks can provide.

[Read more about the benefits and limitations of face masks and extraction systems.](#)

DENTALPRO AEROSOL



The DentalPRO Aerosol helps to reduce risk of cross contamination between dental staff and the patient during examination.

With a market leading airflow to ensure optimum capture, it is designed to work alongside appropriate PPE guidelines. The DentalPRO Aerosol works by extracting contaminated air away from dental staff breathing zones and passing through a series of filters.

It is simple to use and maintain, and there's no need to vent outside as the filtered air is sent back into the room. Its three-stage filtration includes a HEPA filter which removes 99.997% of particles at 0.3 microns.

Due to the large adjustable flow rate, the DentalPRO Aerosol may be used for a variety of procedures between dental staff and patient and can be turned to maximum capacity for applications that involve heavier aerosol generation.

With a sleek design, this is an ideal addition to any dental setting, offering maximum protection and minimal interference.

FEATURES OF THE DENTALPRO AEROSOL

- ✓ Fully portable and easy to move into position
- ✓ Supplied with multi-joint arm and funnel capture device making this a versatile unit
- ✓ Low noise level, so won't interrupt clinician-patient interaction
- ✓ Movable arms allow the inlet nozzles to be positioned in multiple locations to suit the requirement
- ✓ Detachable nozzles and inlets for easy change and cleaning
- ✓ Three-stage filtration; pre-, HEPA and advance carbon filter
- ✓ Specially designed advanced carbon filter with large surface area for high airflow
- ✓ Ergonomically designed
- ✓ High airflow and high vacuum for maximum aerosol capture
- ✓ Variable speed - adjust as required
- ✓ Easy to operate
- ✓ Filter condition indicator
- ✓ Multi-voltage sensor automatically adjusts to local voltage (90-257V)

HIGH FILTER EFFICIENCY AT HIGH AIRFLOW

EASY TO ADJUST AND MANOEUVRE



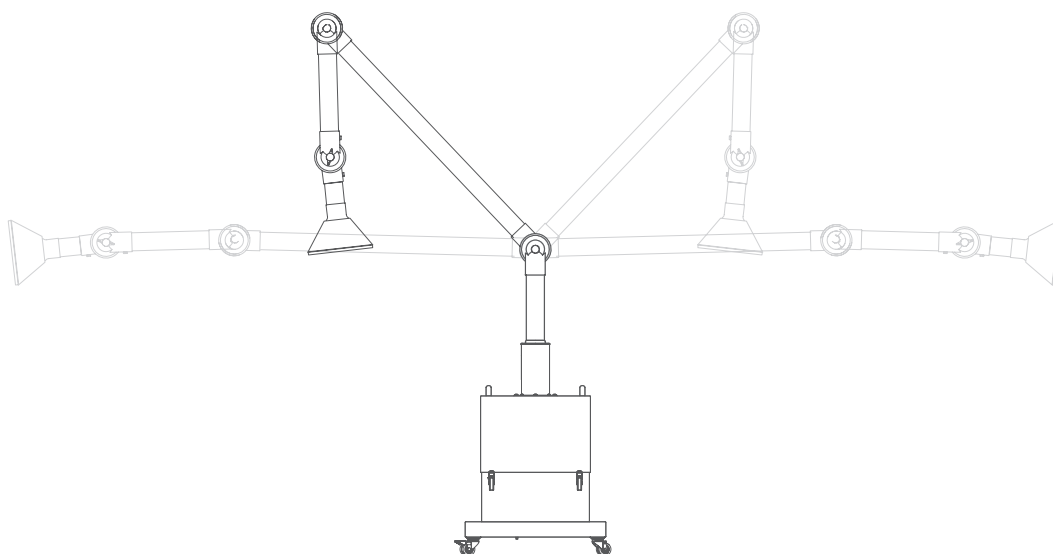
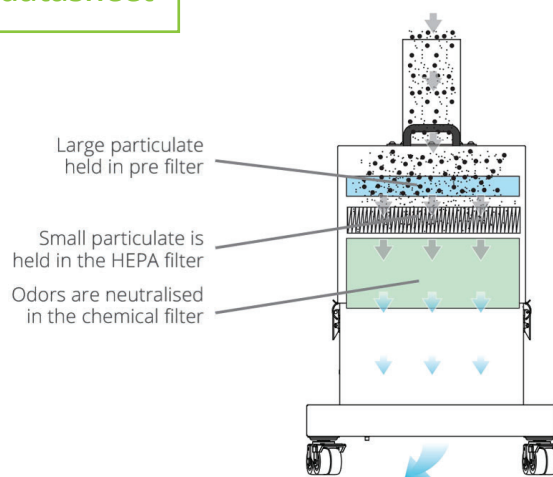
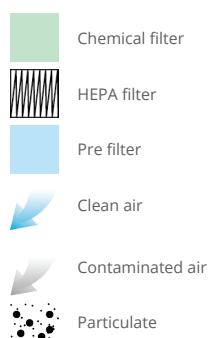
Product specifications

DENTALPRO AEROSOL

Number of surgeries	1 surgery	Motor	Centrifugal turbine
Electrical data	90 - 257v 1 ph 50/60Hz Full load current: 12.5 amps	Dimensions (HxWxD) Without arm/ spigot	840 x 475 x 550 mm 33.07 x 18.70 x 21.65"
Airflow/ pressure	240 m³/hr / 141 cfm	Weight	54 kgs / 119 lbs
Noise level	< 64 dBA (at typical operating speed)	Power cord length	3 m
Filters	DeepPleat pre-filter HEPA filter Odour/gas filter	Serviceable life	12 months
Filter efficiency	HEPA with 99.997% at 0.3 microns	Approvals	CE
Cabinet construction	Powder coated mild steel		

DentalPRO Aerosol datasheet

Airflow through filters



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