

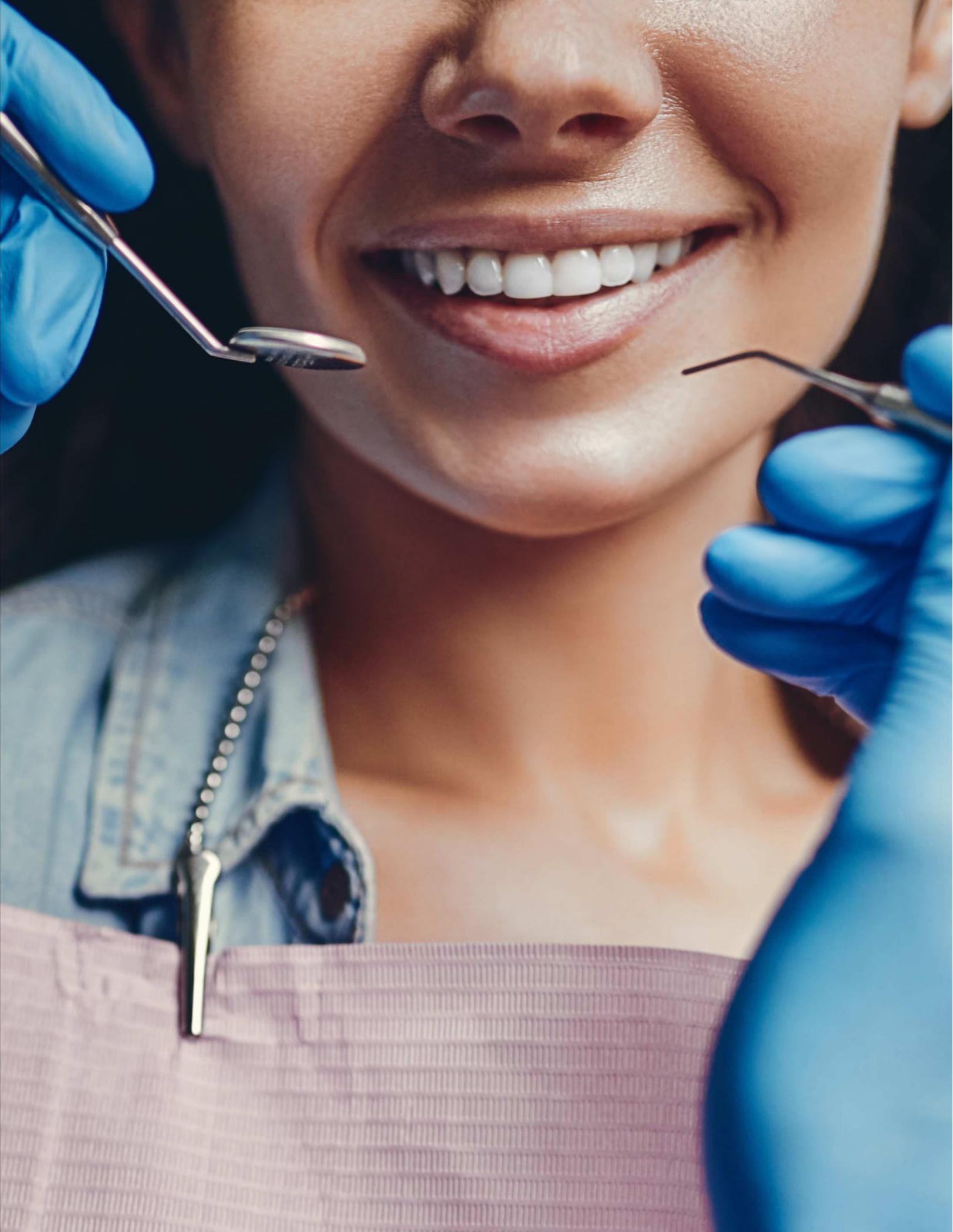
DENT



Extraoral Aerosol Evacuators for Dental Procedures

Extraction. Filtration. Persistence.





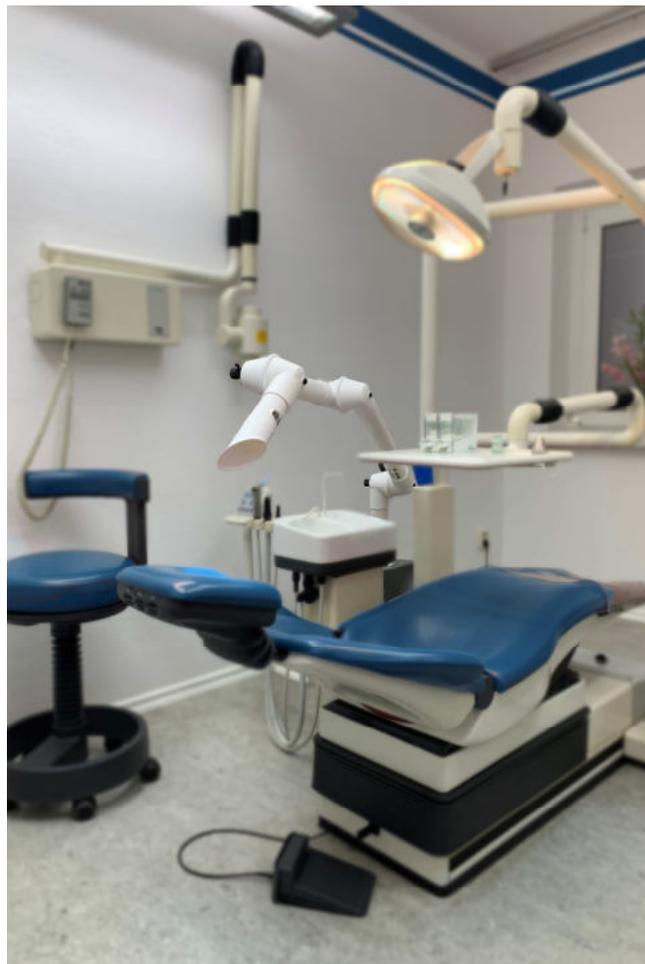
Minimizing the spread of viruses and bacteria

Dentistry personnel is exposed to a higher risk of contracting viruses and, or bacterial diseases during dental procedures. Contaminants are either airborne, or aerosol-borne.

The ULT “DENT” series provides an additional safety measure to minimize the spread in operatory rooms tremendously.

The capturing element is perfectly designed for extraoral aerosol evacuation, allowing for maximum elbow-room for the dentist. The three-joint extraction arm has a proven track in dental applications. It can be whipped down conveniently and is easy to adjust. The evacuator can remotely be turned on and off by the footswitch.

All ULT “DENT” units come with an U15 (Ultra Low Particulate Air) filter. The filtration efficiency is greater than 99.9995% at 0.1 to 0.3 microns – exactly the size spectrum of most viruses and bacteria. The RegBox150 comes as an option and kills pathogens by flushing the filter set-up of the evacuator with heated air.



Advantages at a glance

- » Plug & play kit consists of evacuator, three-joint extraction arm, capturing element and footswitch
- » U15 filter with an efficiency of 99.9995% at 0.1 to 0.3 microns
- » Small, lightweight and flexible
- » Perfectly designed, easy handling
- » Convenient and safe filter change
- » Option RegBox150

Product portfolio DENT



	DENT 160
Moisture separating pre-filter	✓
Filter ULPA U15 separation rate: > 99.9995 % (DIN EN 1822)	✓
Extraction arm Polypropylene	✓
Foot switch	✓
Distance to the patient	Close
Material	Robust sheet metal
Max. air flow	112 cfm
Nominal	47 cfm @ 5.6" wc
Electric	120 V / 60 Hz
Noise level	54 dB(A)
Dimensions (W x D x H)	15.9" x 14" x 21.5"



JUMBO DENT	DENT 200
✓	✓
✓	✓
✓	✓
✓	✓
Close	Average distance
ABS	Robust sheet metal
112 cfm	190 cfm
47 cfm @ 5.6" wc	High pressure operation: 76 cfm @ 20" wc
120 V / 60 Hz	1~110 ... 240 V 50/60 Hz
49 - 54 dB(A)	47 - 58 dB(A)
13.4" x 17.7" x 20.9"	15.4" x 15.7" x 24.4"

Even better than HEPA - ULPA

Bacteria and viruses come in different sizes. Bacteria for instance have a diameter of up to one micrometer. Viruses however range from 20 to 300 nm in size. They are mostly bound to aerosols in the air we breathe.

Viruses are not airborne individually but stuck on droplets forming aerosols. Those aerosols escape the oral cavity during dental procedures.

Each and every U15 filter applied to ULT “DENT” units is tested individually according to DIN EN 1822 with an aerosol of 0.1 to 0.3 microns. This size spectrum represents the Most Penetrating Particle Size (MPPS), particles too small to be separated by impact and too big to be captured

by diffusion. The size of a CORONA virus is exactly within this spectrum. The higher the efficiency of the filter in this particular range, the safer for dental personnel and patients. That is the reason why ULT is going above and beyond HEPA, applying U15 filters to the “DENT” series. U15 filters have a filter efficiency of greater 99.9995% at 0.1 to 0.3 microns, making them the best filter available on the market.

The particularly designed aerosol pre-filter retains moisture and coarse particles, extending the lifetime of the downstream U15 filter significantly. The unique structure of the pre-filter media allows for a perfectly balanced airflow, even with progressing blockage.



Group	Filter class EN 1822	Filtration efficiency @ MPPS in %
E (EPA)	E10	≥ 85
	E11	≥ 95
	E12	≥ 99.5
H (HEPA)	H13	≥ 99.95
	H14	≥ 99.995
U (ULPA)	U15	≥ 99.9995
	U16	≥ 99.99995
	U17	≥ 99.999995

Extraction arm and capturing elements

The three-joint extraction arm is made of Polypropylene (PP), which is resistant to disinfection agents, making it the perfect choice for medical applications. The capturing element should be replaced and disinfected after every treatment.



Inactivating viruses and bacteria efficiently

The RegBox150

Contaminants and pathogens are settling inside the extraction arm, the filter media of the pre-filter and the U15 filter cassette. The only reliable procedure to inactivate pathogens is flushing the evacuator system with heated air. The RegBox150 provides warm air at 150° F to the hooked-up evacuator, flushing the entire system time controlled for 60 minutes. After the process, the RegBox150 and the evacuator power down automatically.

Benefits of the RegBox150 at a glance:

- » Drying and disinfecting the inaccessible inside of the extraction arm
- » Drying the moisture from aerosols inside the pre-filter for extended lifespan
- » Prevents biofilms from forming a breeding ground for bacteria
- » Inactivating pathogens inside the filter set-up



Technical data

Power	1.4 kW / 120 V
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Temperature max.	150°F
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Electric	120 V / 60 Hz
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Dimensions	10" x 8" x 15.7"
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Weight	22 lbs.
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All technical details are to be regarded as non-binding and general and particularly do not count as a guarantee of the suitability of a product for a specific application.

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