

DENT



Extraction and Filtration Solutions for Dental Surgeries

Extraction. Filtration. Persistence.





Sustainable protection for dentists and practice staff

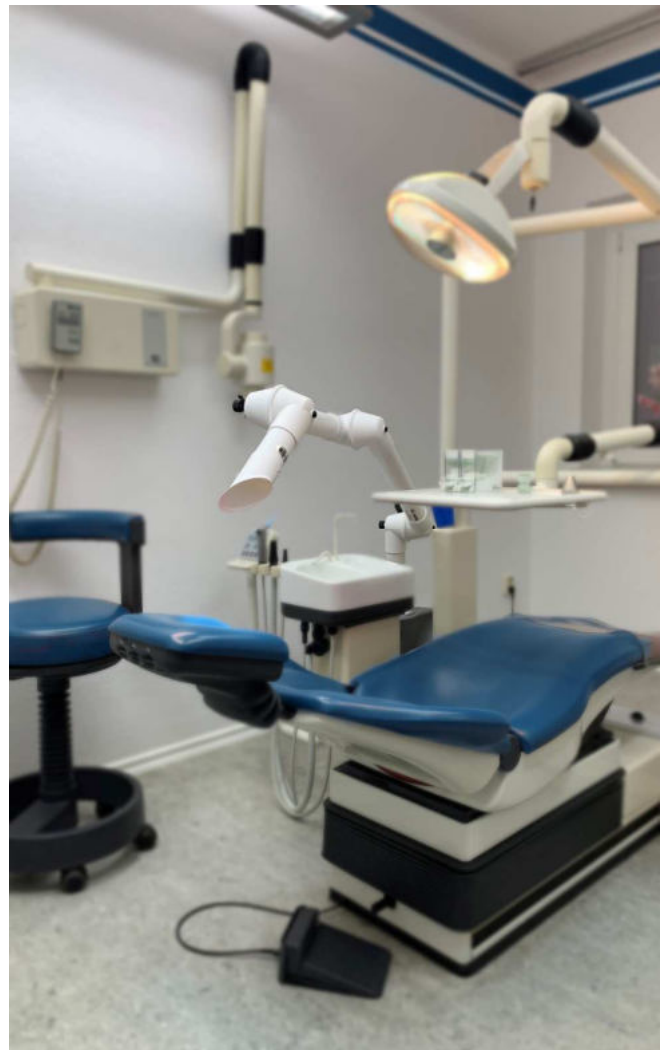
During treatment in dental surgeries, there is an increased risk of infection for the practice staff from viruses or bacteria, which may occur in the breath of patients or in the water mist.

The "DENT" extraction system series offers additional and effective protection against pathogens, as it minimizes the proportion of viruses, bacteria, and other dangerous particles, and operates at a low noise level.

The capturing element is designed to extract potentially contaminated air and provide dentists with optimal freedom of movement. The extraction arms are extremely stable and have been used successfully in the medical field for many years. The included foot switch offers a practical and economical way of operating.

The utilization of ULPA filters guarantees a safe separation of all particles. The filter can be changed with low contamination. The optionally available DENT Regeneration Box reliably kills pathogens.

A well thought out solution range for dentists from ULT.



Benefits at a glance

- » Ready-to-use kit consisting of filtration system, extraction arm and foot switch
- » Highly effective ULPA filter separates 99.9995% of particles, viruses and bacteria
- » Small, light and extremely quiet
- » Good ergonomics, easy handling
- » Loaded particle filter indication
- » Contamination-low filter change
- » Option: DENT Regeneration Box

DENT product range



	DENT 160
Equipment	Standard
Pre-filter for moisture separation	✓
Filter ULPA U15 separation rate: > 99.9995 %	✓
Extraction arm Polypropylene	✓
Foot switch	✓
Distance to the patient	Close
Material	Robust sheet metal
Max. volume flow	190 m ³ /h at 230 V
Max. vacuum	3,200 Pa at 230 V
Electrical connection	230 V / 50 Hz 120 V / 60 Hz
Noise level	49 - 54 dB(A)
Dimensions (W x D x H)	405 x 355 x 545 mm
Power consumption	150 W



JUMBO Filterrolley DENT	DENT 200
Standard mobile	Premium
✓	✓
✓	✓
✓	✓
✓	✓
Close	Average distance
ABS	Robust sheet metal
190 m ³ /h at 230 V	320 m ³ /h at 230 V
3,200 Pa at 230 V	9,000 Pa at 230 V
230 V / 50 Hz 120 V / 60 Hz	1~110 ... 240 V 50/60 Hz
49 - 54 dB(A)	47 - 58 dB(A)
340 x 450 x 530 mm	390 x 400 x 620 mm
150 W	900 W

ULPA filter technology

The sizes of bacteria and viruses differ significantly. Bacteria are up to one micrometer in diameter. Viruses, in turn, are 20 to 300 nanometers in size. They can be present in the breath of infected people.

U15 filters (ULPA) eliminate bacteria and viruses with a degree of separation of >99.9995% demonstrably and safely.

An ULPA filter's operating principle is based on a close-knit fiber network that effectively separates particles. However, ULPA filters do not work like a sieve, in which the mesh size determines the filtration effect. ULPA filters also effectively free the air from particles that are significantly smaller than the spaces between the fibers. Blocking, diffusion and inertia effects work here.

Each ULPA U15 filter is individually checked for leakage – with test report. The measurements are executed for the particle sizes with the lowest deposition rate, the so-called Most Penetrating Particle Size (MPPS) [1].

The specially developed aerosol pre-filter retains moisture and coarse particles and, thus considerably extends the life of the downstream U15 filter. The unique structure of the pre-filter media enables a perfectly balanced air flow, even with increasing filter saturation.

[1] MPPS is the particle size that can best pass through the filter without being separated. It is determined beforehand by the filter manufacturer or filter media supplier based on measurements.



Group	Filter class EN 1822	Separation rate for 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

Safe capturing

ULT relies on well-proven technologies. The Alsident extraction arm used has proved successfully in the medical field. It is dimensionally stable and yet easy to move. With its white color, it fits particularly well into the practice environment.

Polypropylene is extremely robust against the daily use of disinfectants and can be cleaned in a thermal disinfectant. The suction tip can be replaced and disinfected separately.



Efficiently eliminating viruses and bacteria

The DENT Regeneration Box

The extracted viruses and bacteria are now collected in the filter. A few may also be in the extraction arm and the device. For this, ULT offers a safe technology for elimination: the DENT Regeneration Box.

This box neutralizes bacteria and viruses in the extraction system and in the filter within an hour and, additionally, has a drying effect. Hand-

ling is extremely simple: The capturing element is removed from the extraction arm, which is led to the regeneration box and plugged onto the corresponding socket. After switching on the box, 65°C hot air flows through the filter device. The DENT Regeneration Box is automatically switched off together with the filter device after the process.



Technical data

Power	1.9 kW at 230 V / 1.4 kW at 120 V
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Max. temperature	65°C
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Electrical connection	230 V / 50 Hz 120 V / 60 Hz
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Dimensions	255 x 205 x 400 mm
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Weight	10 kg (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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ULT is certified according to ISO 9001:2015. The plants are designed according to international standards. In addition, the plants always comply with current EC directives on energy efficiency (ErP directive: Total energy efficiency of ready-to-use ventilation systems or minimum energy efficiency of electric motors).

Detailed technical information can be found on device specific data sheets or on our website. All technical data is general and not binding and does not guarantee the suitability of a product for a specific application.

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