

The next generation. Tyscor suction systems.



COMPRESSED AIR
SUCTION
IMAGING
DENTAL CARE
HYGIENE

50%

ENERGY SAVING
POTENTIAL

Measured by the
Fraunhofer Institute
07/2014

The story of a radical new development

Over fifty years ago, ergonomic treatment reached a whole new level thanks to the dental suction systems from Dürr Dental. Using an innovative technological approach, the new generation of suction systems is now taking a quantum leap in terms of energy efficiency.

In 1964, Dürr Dental developed a suction system that allowed patients to be treated lying on their back for the first time. Back then this was a sensational development, now we take it for granted. But it's far from the end of our quest to continue to be the best in class, or rather to be the best in class time and time again. We are committed to improving the things that are already good or embarking on new paths when the time is right so that our clients can pursue new avenues. Rising to this challenge that we have set for ourselves, we have developed a completely new suction system with radial technology: the Tyscor V and VS suction systems from Dürr Dental.



GERMAN
DESIGN
AWARD
SPECIAL



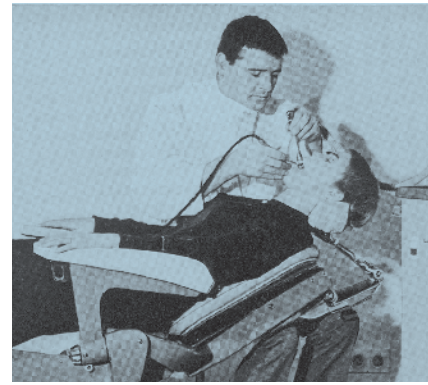
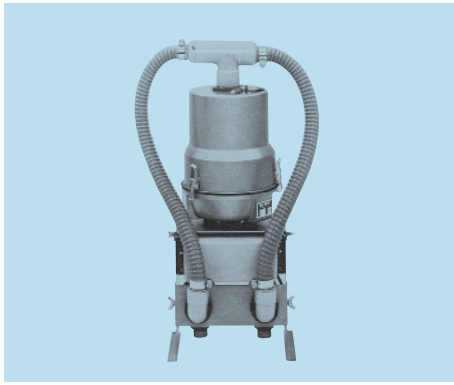
DESIGN
AWARD



reddot design award
winner



PROGRESS STARTS
WITH IDEAS



FOR NEARLY 80 YEARS:
100% COMMITMENT



WE DELIVER INNOVATIONS BY
THINKING ABOUT
TOMORROW TODAY

Radially brilliant

Dental technology is following a revolutionary path

In addition to Dürer Dental's usual quality and reliability, the newly developed suction systems with radial technology in the Tyscor premium range are up to 50% lighter and deliver potential energy savings of up to 50%. They truly are setting standards in performance and efficiency.

Versatile

Whatever the conditions in the dental practice – star-shaped or linear pipe installation, dry or wet suction – the Tyscor suction units are always the right choice. The Tyscor VS systems with attached rinsing unit can also be used in mixed systems with both dry and wet treatment units.

Scalability

The electronic control system in the Tyscor suction units offers a new world of scalability. Starting with one operator (Tyscor V/VS 1), upgradable via licence key to two operators (Tyscor V/VS 2). If demand grows, it is possible to operate two Tyscor V/VS 2 units on a single suction pipe for use by up to four operators simultaneously. Tyscor VS 4 offers full performance for four operators with two suction stages.

*measured on Tyscor VS 2



1 operator



V/VS 1

2 operators



V/VS 2

4 operators



V/VS 2 Tandem



2 4

Scalability of Tyscor V/VS 1 and V/VS 2



Energy saving

The radial technology of the Tyscor V and Tyscor VS units delivers outstanding performance, particularly in terms of energy consumption. Its load-dependent automatic adjustment provides constant suction at all times – and saves money in the process.

Network-compatible

With the standard network connection, the Tyscor V and Tyscor VS are not only installed plug & play ready, but are also just as easily integrated into the digital monitoring and controlling of practice supply systems via the software. This means that staff always know the status of the devices.

Quiet

With a housing made of noise-absorbing, foamed plastic and an engineering design focused on quiet running, the Tyscor V and VS are two of the quietest suction units in their class without additional sound protection.

Plug & play

The compact and modular design not only makes commissioning and setup really easy, but also offers quick and easy maintenance. Thanks to the 230 V 1~ supply, no three-phase AC current is required.

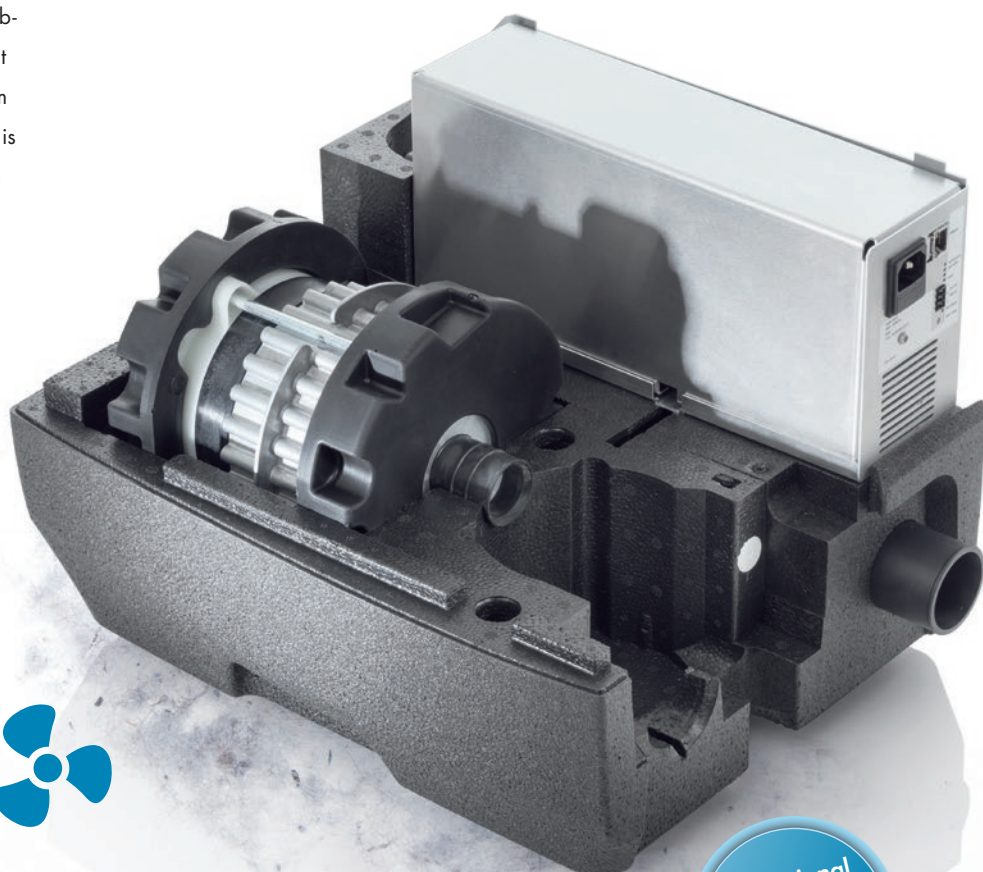
This is what counts:

- Over 50% energy saving potential through the use of a radial blower
- Expandability and scalability thanks to the electronic control
- Quick and easy plug & play installation thanks to the integrated control system and 230 V supply (no three-phase AC current required)
- Improved operational safety due to timely service notifications and automatic maintenance reminders
- Modular design, retrofitting from a dry to a wet suction system is possible



Dry suction systems

The dry suction systems from Dürr Dental combine extremely powerful performance with exceptionally quiet operation. Dürr Dental V suction units can easily withstand up to seven or eight hours of continuous operation. The substances that are sucked in are directed straight into the integrated separation unit or amalgam separator. The suction power required for this is generated by the turbine wheels, which rotate contactlessly – only dry air makes its way to the suction unit itself. For reliable protection against condensation water, all models are equipped with a condensation separator as standard. Thanks to the modular design, it is easy to change over from a dry suction system to a wet one.



Operational
reliability
with two
suction stages

Tyscor V 1

Dry suction unit for entry into the world of radial technology for a single operator. Upgradable via licence key to two operators working simultaneously (Tyscor V 2).

Tyscor V 2

The compact and lightweight suction solution for two operators. The modular design makes it possible to retrofit to a wet suction system (Tyscor VS 2).

Tyscor V 4

Integrated touch display for user-friendly adjustment of operating parameters (e.g. suction power modes Eco, Balanced or Boost).



Wet suction systems



A Dürre Dental VS suction unit is a power pack you can rely on. It concentrates all of the suction and separation in the practice into a single, compact unit. It can effortlessly handle the amounts of liquids processed by up to four operators at the same time. In the process, thanks to the integrated two-stage separation system, the aspiration of secretions and blood foam into the turbine space is reliably prevented. The reliable drive of the unit runs exceptionally quietly, and all important functional elements are protected against corrosion. Central installation in a multi-room practice places high demands on the cleaning and hygiene of the pipe network. With the flow accelerator developed by Dürre Dental, the suction system automatically eliminates the risk of deposits, odours and hygiene problems.

*When using a rinsing unit

Tyscor VS 1

Wet suction unit for entry into the world of radial technology for a single operator. Upgradable via licence key to two operators working simultaneously (Tyscor VS 2)



Tyscor VS 2

The compact and lightweight suction solution for two operators. Intelligent control allows two suction units to be operated on a single suction pipe.



Tyscor VS 4

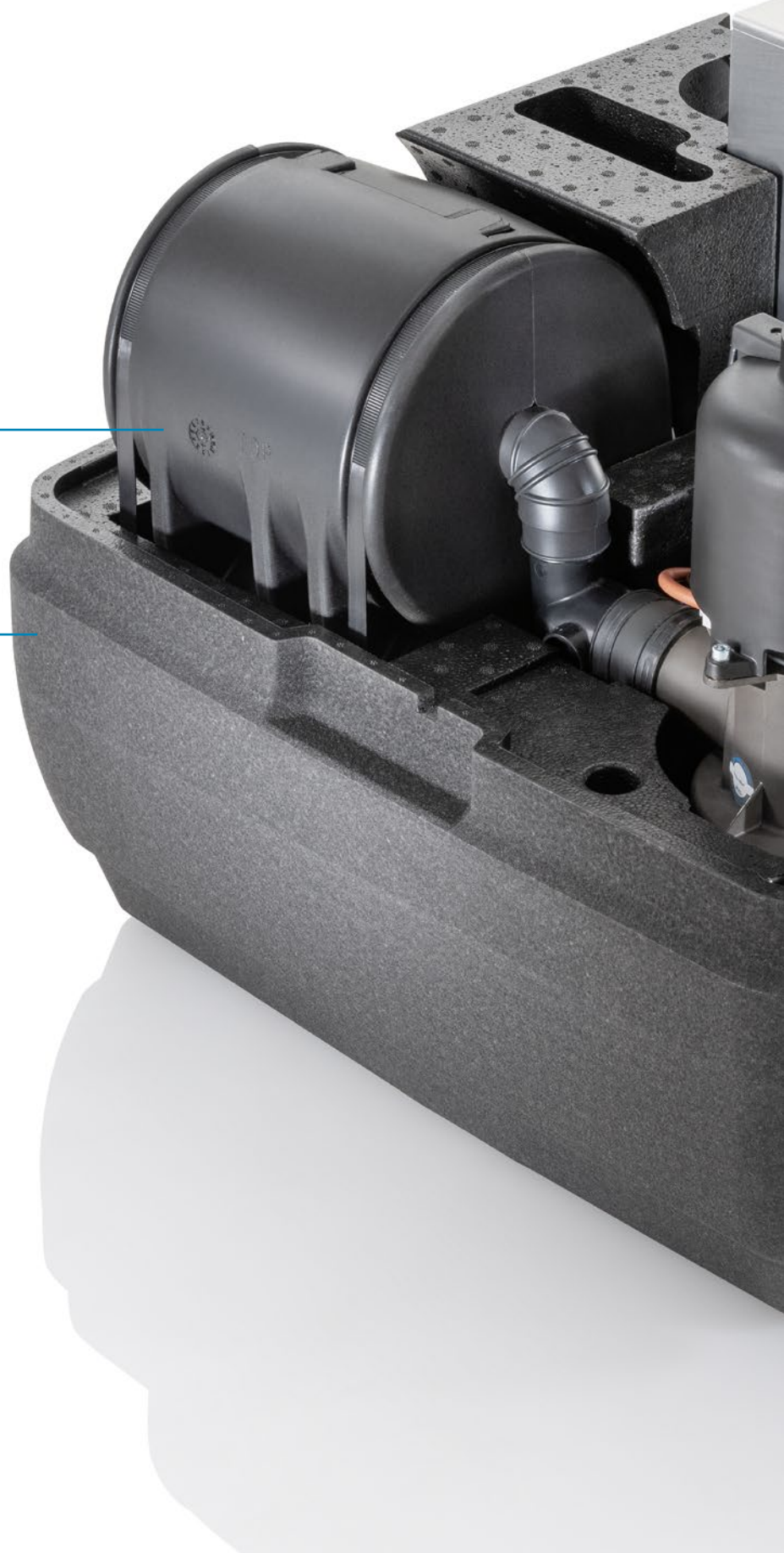
Integrated touch display for user-friendly adjustment of operating parameters (e.g. suction power modes Eco, Balanced or Boost)



Quality you can trust

Groundbreaking technology, made in Bietigheim-Bissingen

As an innovation leader, Dürr Dental constantly sets new standards in its development of products and services. In everything it does, Dürr Dental strives to deliver maximum quality and absolute reliability. This is why our ISO-certified company manufactures nearly all of its products in Germany.



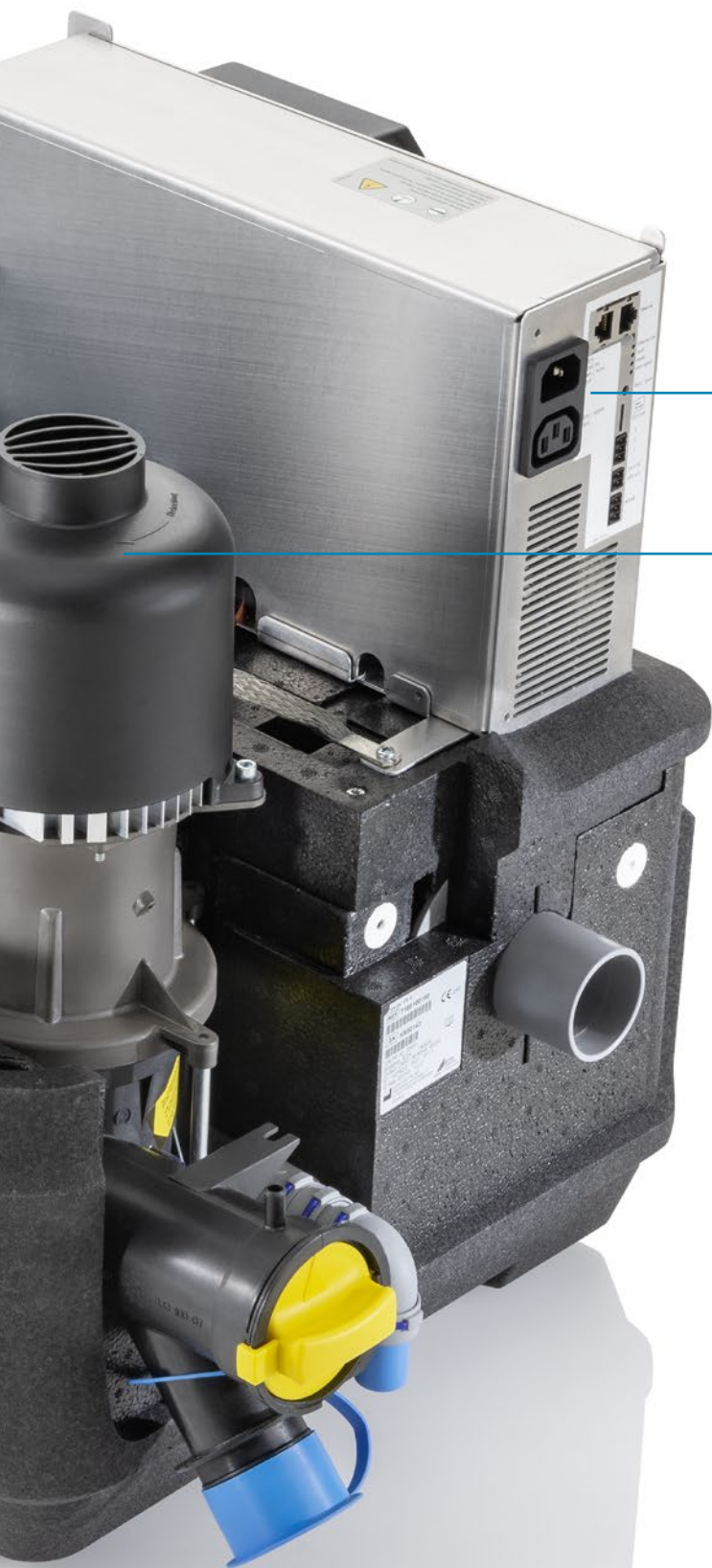
[3]

[2]



Controller [1]

An integrated control module adapts the power of Tyscor suction systems to demand, thereby delivering energy efficiency. The standard network connection and the software provide a continuous overview of the operating status and allow the desired suction mode (Eco, Balanced or Boost) to be selected with ease. With Tyscor V/VS 4 the settings can be adjusted directly via the integrated touch screen.



Housing [2]

Typically for Dürr Dental, the design principle of “form follows function” also applies to the housing. The half-shell chassis made of foamed plastic is extremely lightweight. The embedded modular interior comes out without having to remove any fixed screws, which not only enables easy operation (simply connect the hoses and the plug), but also allows for easy maintenance and any repairs.

Suction unit [3]

A vacuum compressor with radial technology is used for the first time in the suction unit of the Tyscor V and VS systems. This technological innovation delivers spectacular performance, in particular where energy consumption is concerned. In addition, the small impeller with high air gaps and the hybrid engine mounts allow for a compact design and maximum reliability.

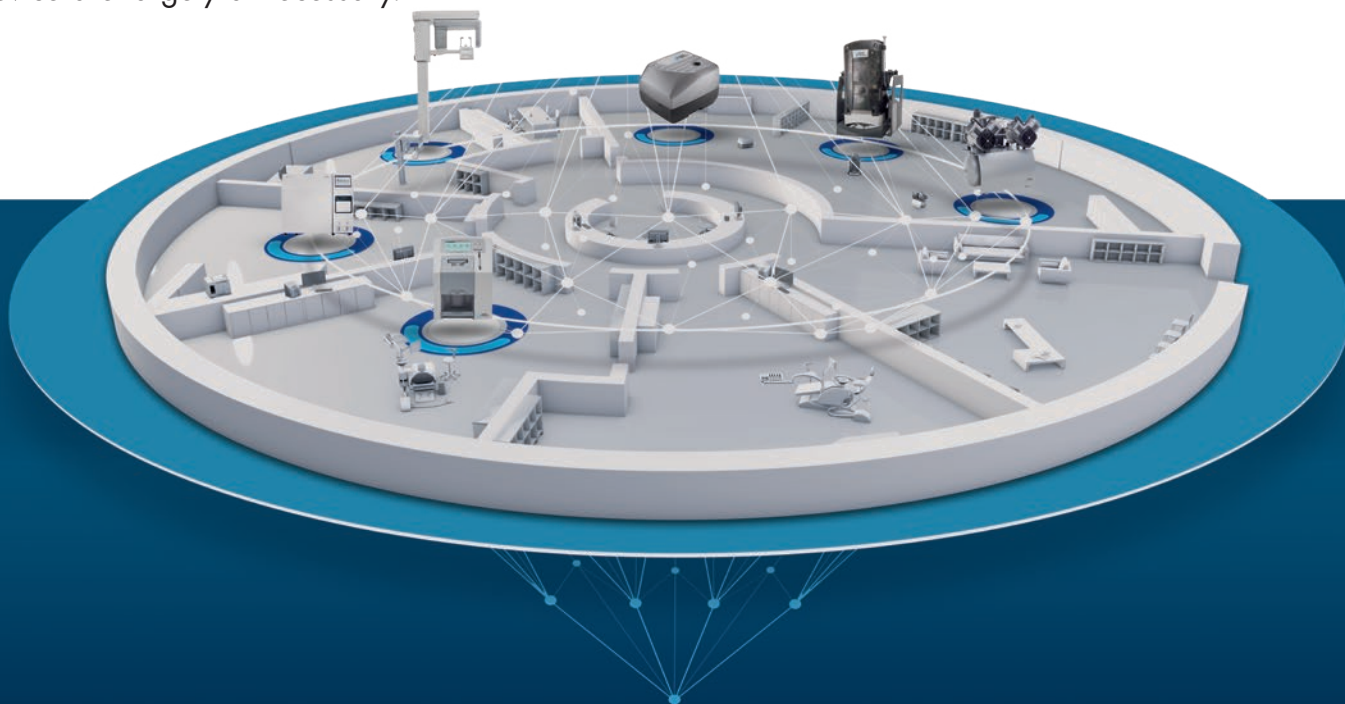
Separation [4]

For the separation unit of the Tyscor VS systems, tried-and-tested Dürr Dental technology has been perfectly adapted to suit the new machine concept. Integrated rotational speed monitoring automatically reduces the speed if it detects contamination or flooding of the separation unit and even switches off the machine completely before a defect can occur. Thanks to their modular design, the dry Tyscor V systems can be easily converted to wet Tyscor VS systems, offering maximum flexibility and investment protection.

Our added value – for operational reliability and value retention

Ensuring reliable practice operation

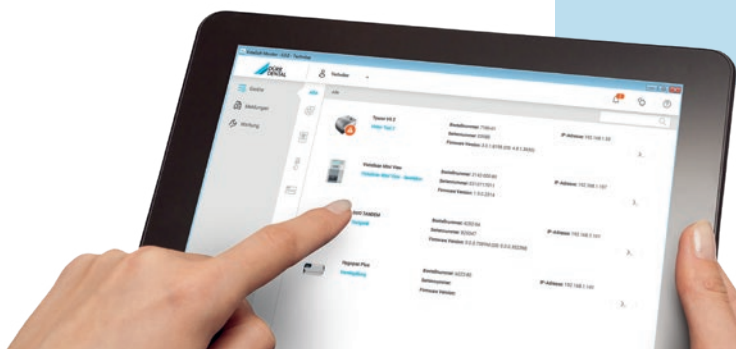
The Dürr Dental software brings dental practice supply systems into the digital age. The functional status of the connected units can be centrally monitored – for highest operational reliability and simple diagnostics. This greatly simplifies the work of the practice team, since visual inspections directly on the device are largely unnecessary.



Ensuring smooth operation of the suction system is vital to the daily operation of a practice. The software integrates the supply systems in the practice network, ensuring that a constant overview of the current status of monitored systems is always provided. The software sends automatic notification of scheduled maintenance. In the event of a fault, the software will indicate whether you can remedy the problem yourself, or it offers the option of informing a service technician directly via e-mail. The technician can immediately look for a solution using a remote maintenance function.

This is what counts:

- Improved operational safety of the devices thanks to early service notifications and automatic maintenance reminders
- Comfortable adjustment of device settings in accordance with practice conditions (e.g. suction power modes Eco, Balanced or Boost)
- Efficient communication in case of a service call, fast analysis and timely solution via well-prepared technician or even remote maintenance.
- Automatic notification of maintenance intervals and messages



How to keep your suction unit fit

Around half of all suction units suffer from restricted performance due to deposits and blockages. This is because although most units are disinfected, they are not cleaned as well. This results in substances such as blood, secretions, tooth material, filling materials and prophylaxis powder forming a dense sludge. In turn, this leads to blockages (obstruction of the suction unit), which can lead to a drop in performance and – in the worst case – complete standstill of the practice.



The solution from Dürr Dental: Orotol® plus and MD 555 cleaner

In combination, Orotol® plus and MD 555 cleaner protect all components of a suction unit (including the lines) against deposits, contamination and encrustation. If used regularly, they can prevent a reduction in performance and extend the life of your suction unit.

For more information please visit: duerrdental.com/orotol

Dürr Dental recommends:

- For disinfection and cleaning: Orotol® plus and Orotol® ultra
- For cleaning: MD 555 cleaner special detergent for suction systems

Important! Only these products have been tested by Dürr Dental. When using prophylaxis powders, Dürr Dental recommends the water-soluble Lunos Prophylaxis Powders in order to protect the Dürr Dental suction systems.

Technical data at a glance

Tyscor suction units	New Tyscor V 1	New Tyscor VS 1	Tyscor V 2	Tyscor VS 2	New Tyscor V 4	New Tyscor VS 4
Voltage (V)	230 (1~)	230 (1~)	230 (1~)	230 (1~)	230 (1~)	230 (1~)
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. electrical output (kW)	0.6/0.7	0.6/0.7	0.6/0.7	0.6/0.7	1.3/1.4	1.3/1.4
Current consumption (A)	2.7/3.3	2.7/3.3	2.7/3.3	2.7/3.3	5.8/6.2	5.8/6.2
Number of operators	1	1	2	2	4	4
Dimensions without housing (HxWxD cm)	34 x 36 x 46	32 x 36 x 46	34 x 36 x 46	32 x 36 x 46	54 x 45 x 62	51 x 45 x 69
Weight without housing (kg)	9	11	9	11	19	24
Noise level¹⁾ without housing [dB(A)]	approx. 55	approx. 53	approx. 57	approx. 55	Approx. 62/62	Approx. 61/64
Noise level¹⁾ with housing [dB(A)]	approx. 49	approx. 48	approx. 52	approx. 50	-	-

¹⁾ The noise level applies to the suction unit and is affected by the room in which the unit is installed. In a reverberant room (e.g. tiled walls), the noise level may be higher.



Noise reduction hood Tyscor V/VS 1/2

Size 39 x 45 x 52 cm (H x W x D)

Weight 10 kg



Upgrade kit for Tyscor V/VS 1