

Delivering unrivalled compressed air quality for over 65 years – Silver Airline compressors

Powerful, reliable – and far too nice to be banished to the basement!



Standard
ULPA U16
bacteria filter

A design encapsulating over 65 years of experience

The best is yet to come

Powerful compressors from Dürr Dental have been the beating heart of dental surgeries around the world for many decades. From the market launch of the first oil-free compressor for dentistry right up to today's innovative solutions, Dürr Dental has always been at the forefront of developments in the field of dental medicine. The Silver Airline compressors, which represent the latest milestone on this journey, set the standard that all other systems have to live up to when it comes to performance and air quality.

Now they are even more convincing, based on the motto: Everything better. Because their true value is on the inside. Their internal technical perfection and functions make them the undisputed number one model for dentists who really appreciate quality and reliability.

In addition, Dürr Dental compressors are also certified as Class IIa medical devices in accordance with the Medical Device Regulation MDR (EU 2017/745).

Quality is good, quality control is better

In order to ensure the highest quality standards, we manufacture almost exclusively in Germany. All products of our ISO-certified company are subject to strict production standards and ongoing quality control.

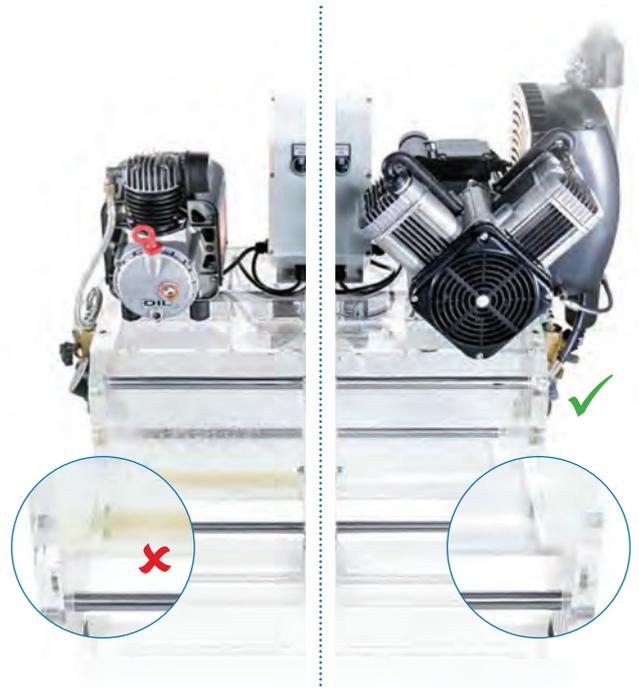
This is what counts:

- State-of-the-art air drying technology
- Maximised reliability during day-to-day work for many years
- Safe working and high-quality treatment results thanks to oil-free, dry and hygienic compressed air in accordance with the requirements set out in ISO 22052
- Class IIa certified medical device in accordance with MDR (EU 2017/745)





**DENTAL
HYGIENIC AIR
ISO 22052**



Oil-lubricated compressor without dry air unit

Oil-free duo compressor with membrane drying unit

Clean air, uncontaminated by water, oil or particulates, is an important hygiene factor in dental treatment. It also maintains the value of your instruments and work. For this reason, the quality of dental compressed air has been defined in the new ISO 22052, which is of course met by Dürrental compressors.

Dental compressed air has to be hygienic

The aim is to reduce the amount of moisture in dental compressed air to a minimum and prevent any contamination in the form of oil or solid particulates. This is the purpose of the membrane drying unit. It reliably prevents moist environments from forming in the compressed air system and becoming breeding grounds for organisms. In this way, it provides a continuous supply of compressed air without any of the buffering times required for regeneration. A low pressure dew point ensures hygienic, tasteless and odourless compressed air.

The right compressed air for every application



It all comes down to performance

More than anything else, the selection of a compressor depends on the power reserves required and thus on the size of your surgery, the number of users and the number of other compressed air consumers, such as cleaning devices. Durr Dental offers models for all performance needs, from compact compressors for small surgeries to high-performance compressors for clinics. The array of products includes upgradable models that accommodate expanding surgeries and their growing needs for compressed air. Durr Dental and your specialist retailer will advise you on the right compressed air solution for your needs.

This is what counts:

- Selection of compressors for 1 to 16 users
- Optionally expandable via the Tandem principle
- High-performance compressors for large surgeries, clinics and dental laboratories
- Compressors with multiple units and an electronic control unit, suitable for networking via software
- Two Tandem compressors can be used in parallel in a single compressed air network

Primo

The Primo is the smallest of the Silver Airline series, which is ideally suited to a single user.



Duo

The classic compact compressor with 2-cylinder V unit and a 20-litre tank for 2 users.



Trio

The high-performance compressor with 3 cylinders and a 50-litre tank delivers sufficient reserves for up to 3 users.

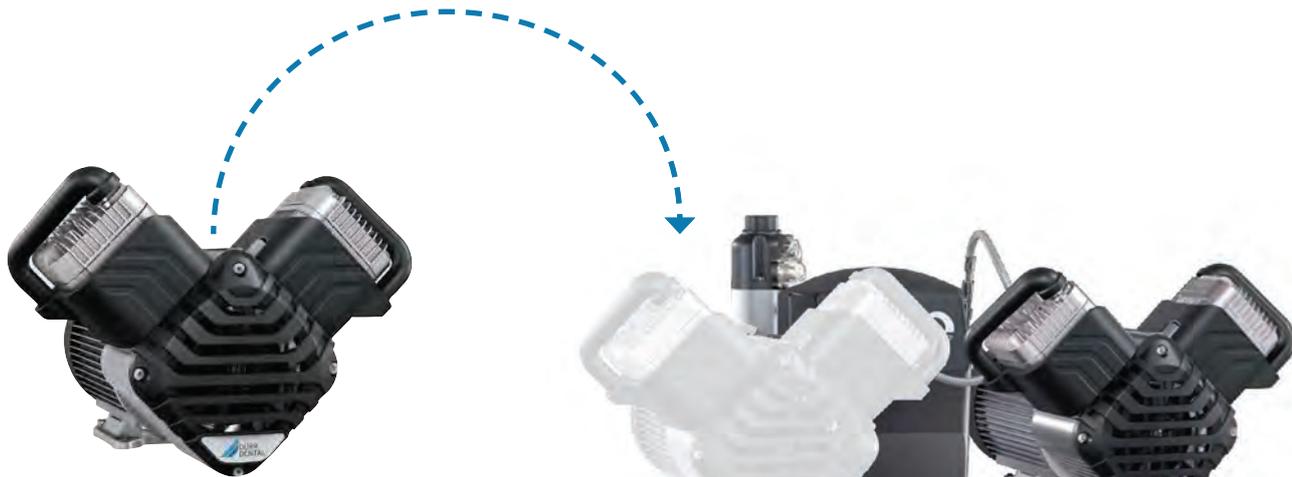


Quattro

The powerful 4-cylinder compressor with a 50-litre tank for up to 4 users.



Twice as good – the Tandem version



A solution with options for more

Silver Airline compressors in the Tandem variant offer especially high future and operational security. The possibility of modular upgrades makes it a flexible solution with the option for more. The basic version of the Duo Tandem provides 2 users with a reliable compressed air supply from a single unit. The dimensions of the compressor tank enables it to incorporate 2 units. If you wish to expand your surgery, adding a unit will double the available output to 4 users. Intelligent control also permits the parallel operation of two Tandem compressors on one compressed air line, which expands the performance reserves. All these options help you flexibly react to future additional requirements for compressed air in the surgery or clinic.



Available now!
Special CAD/
CAM variants available

The Tandem concept from Dürr Dental – the Duo Tandem with a single unit for 2 users. Suitable for modular expansion with a second unit for up to 4 users.

Duo Tandem

Solution with expandable performance. With its 50-litre tank it can work with 1 or 2 units for up to 4 users as required.

Available in 230 V (1~) and 400 V (3~)



Quattro Tandem

Top performance for dental laboratories and large surgeries – a 90-litre tank with a choice of 1 or 2 units for up to 8 users.

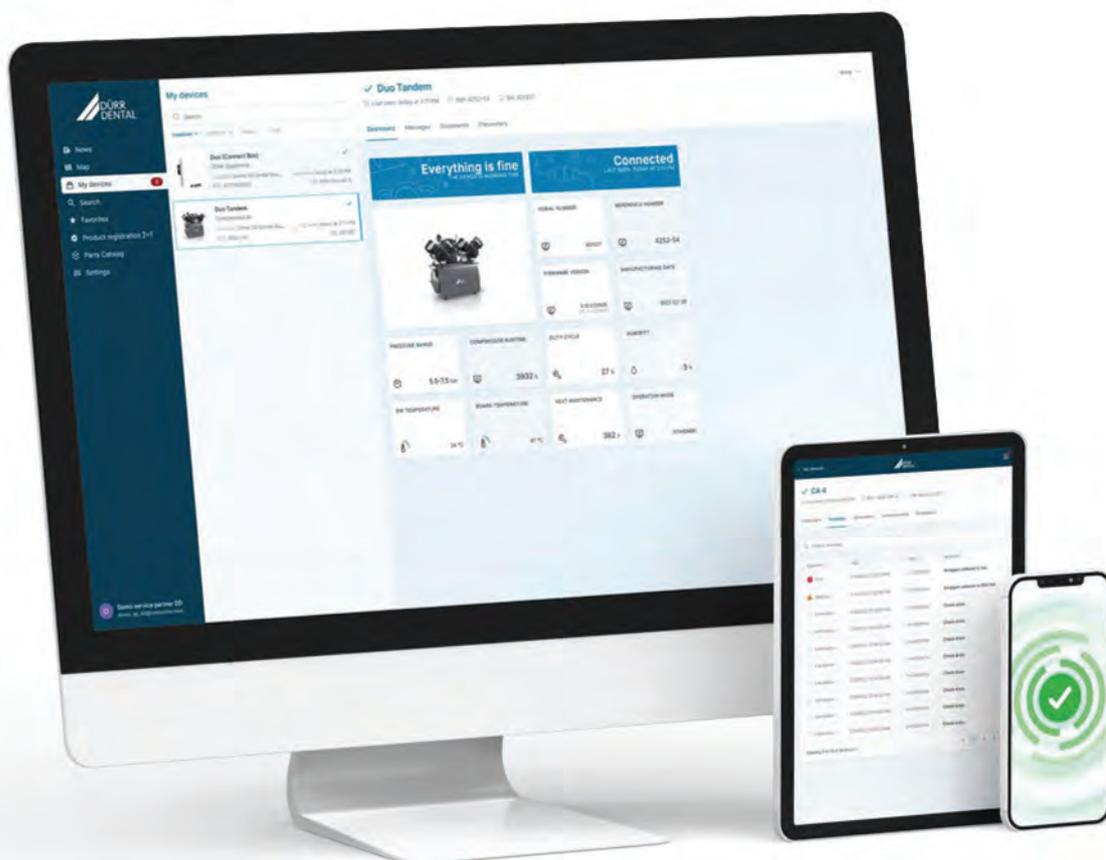


Quattro P 20

Maximum performance with a tiny footprint for dental laboratories and large surgeries. Redundant system for the highest reliability.



Stay relaxed with a clear view of everything – with VistaSoft Monitor



Go digital

In modern dental surgeries, it is commonplace to work with digital systems. From diagnostic imaging to hygiene documentation and invoicing, networked software solutions keep surgery staff constantly up to date.

Our software integrates the supply systems in the surgery network, ensuring that a constant overview of the current status of monitored systems is always provided. The surgery is also automatically notified about upcoming maintenance tasks, such as filter changes on the compressor. 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:

- Constant overview of all supply engineering via the PC
- Option of calling up operating statuses via the task bar on the PC
- Quick service call help via remote maintenance from the service technician
- Central management of connected devices
- Maintenance intervals always under control for maximum operational safety and reliability
- Quick and safe diagnosis when servicing
- Available for all Silver Airline compressors with electronic controls



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Multi-stage filter system for hygienic compressed air with improved reliability

Compressed air for dental applications must be free of oil, dry and hygienic and must not have any particulate contaminants that are too large. This follows directly from section 5.3 in the relevant standard ISO 22052. This helps teams and their patients by ensuring that straight and contra-angle hand pieces, powder jet devices and treatment units all run smoothly. ISO 22052 sets out the quality requirements that are required to be met by compressed air for dental applications. Thanks to our membrane drying unit and the bacteria filter, Dürr Dental compressors generate dry, oil-free dental compressed air that meets the requirements of ISO 22052 – helping you to achieve optimum results in your work.



Bacteria filter set

Preserving the value of your equipment and ensuring optimum air quality at all times: the right filters for your compressor

The filters installed in Dürr Dental compressors ensure that consistent performance is maintained and will help preserve the value of your compressed air system. Even in the best filters, germs, dirt and dust will build up over time. An annual filter change therefore ensures the best possible performance, while reducing wear and extending the service life of the entire compressed air system.

1

Air intake filter

The first stage is the air intake filter on the unit. In the second stage, the coalescing filter provides particle-free and clean air to keep the high-value membrane protected against soiling and damage. Finally, the bacteria filter removes any remaining germs in stage three – resulting in hygienic compressed air.

2

Coalescing filter with water collecting container

Working as an inflow filter, the coalescing filter protects the downstream components of the membrane drying unit. The water is drained through a valve via the collecting container.

Bacteria filter

The Dürr Dental bacteria filter is a high-performance particulate air filter in filter class ULPA U16 according to standard EN 1822-1:2019-10 / ISO 65U according to standard ISO 29463-3:2018.

Membrane

Downstream of the coalescing filter, 1,200 internally coated hollow membrane fibres remove moisture from the compressed air. The system delivers 100% availability without regeneration interruptions and provides a constant supply of dry compressed air during continuous operation. In this way, it protects valuable instruments and treatment results. Apart from an annual filter change, the system is maintenance-free.



Quick guide to filter changes:

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Technical data at a glance

Model	Primo	Duo	Duo	Duo Tandem 1 Aggr	Duo Tandem 1 Aggr	Duo Tandem 2 Aggr	Duo Tandem 2 Aggr.
Voltage (V)	230 (1~)	230 (1~)	400 (3~)	230 (1~)	400 (3~)	230 (1~)	400 (3~)
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
User	1	2	2	2	2	4	4
Tank capacity (l)	20	20	20	50	50	50	50
Delivery at 5 bar¹⁾ (l/min)	61/71	125/145	125/145	125/145	125/145	253/292	253/292
Pressure range²⁾ (bar)	6-7.8	6-7.8	6-7.8	5.5-7.5	5.5-7.5	5.5-7.5	5.5-7.5
Noise level³⁾ [dB(A)]	65/66	66	66	66	66	69	69
Noise level in cabinet³⁾ [dB(A)]	49/50	51	51	51/50	51/50	51/53	51/53
Dimensions (H x W x D cm)	69 x 49 x 47	69 x 49 x 47	69 x 49 x 47	76 x 75 x 52	76 x 75 x 52	76 x 79 x 52	76 x 79 x 52
Weight (kg)	45	50	50	65	70	95	100

Model	Trio	Quattro	Quattro Tandem 1 Aggr.	1x Quattro Tandem 2 Aggr.	Quattro P 20
Voltage (V)	230 (1~)	400 (3~)	400 (3~)	400 (3~)	400 (3~)
Frequency (Hz)	50	50/60	50/60	50/60	50/60
User	3	4	4	8	16
Tank capacity (l)	50	50	90	90	90
Delivery at 5 bar¹⁾ (l/min)	181	258/293	258/293	516/586	1032/1172
Pressure range²⁾ (bar)	6-7.8	6-7.8	5.5-7.5	5.5-7.5	5.5-7.5
Noise level³⁾ [dB(A)]	67	69	69	72	75
Noise level in cabinet³⁾ [dB(A)]	49	53	-	-	-
Dimensions (H x W x D cm)	76 x 74 x 52	76 x 74 x 52	82 x 102 x 62	82 x 102 x 62	114 x 115 x 77
Weight (kg)	80	85	120	170	300

¹⁾ Delivery without dry air ²⁾ Max. pressure 9.5 bar ³⁾ Average values at 5 bar and 50 Hz



Accessories and filters



Soundproof cabinet, small



Soundproof cabinet, large



Pressure reducer



Bacteria filter



Coalescing filter



Air intake filter



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Tornado Compressors

Built for the long run

The
NEW
Tornado



Run with safety – Dental Compressed Air from Dürr Dental

For over 65 years, compressed-air systems from Dürr Dental have been used extensively in practices and clinics around the world. Their superb performance and air quality – oil-free, dry, hygienic – has made them market leaders. Dürr Dental compressors are also certified as Class IIa medical devices in accordance with the MDR (EU 2017/745).

Tornado 2

Perfect for 2 dental units: Compressor with 2 cylinders and 20 liters of compressed air capacity.



Tornado 1

Optimal for one dental unit:
The single-cylinder compressor with a 20-liter compressed air tank.



Tornado 4

Designed for high performance and four dental units:
The twin compressor with 4 cylinders and a 50-liter compressed air tank.



The Heart of the Practice: High Performance with a Calm Resting Pulse

Power Pack



Optionally equipped with a modern membrane drying system, a stable drying performance in continuous operation is guaranteed. With low maintenance requirements, high mileage, and consistent compressed air quality, it reliably meets all the demands of a dental compressor.

Silent Hero



With outstanding filter performance, the system ensures a high level of safety and hygiene in dental practices. Easy filter replacement guarantees worry-free operation and a long service life. Well-designed sound insulation and low noise emissions ensure quiet operation – ideal for use in dental practices.



Designed for Silence and Durability

Power in whisper mode

A dental compressor must be a reliable partner for dental practices. The new Tornado meets the growing demands in terms of air quality and performance. The highly developed compressor is extremely quiet, and can have a calming effect on both patient and practitioner. But how quiet is quiet? The answer is exceptionally so! The Tornado has a new aerodynamic noise reduction hood, available for Tornado 1 & 2, which ensures a volume comparable to a light summer rain shower.



Automatic Condensate Drain

Condensation collects in the containers of systems without a membrane drying system. They must be emptied regularly using a manually operated valve.

The easy-to-retrofit automatic condensate drain has three advantages:

- You save time. The drain takes over the manual draining of the water.
- The available tank volume becomes smaller and smaller if the water is not drained. Therefore, the automatic condensate drain ensures that the compressor switches on less frequently.
- It prevents condensation from the tank from being conducted through the pipes to the air consumers.



"I Want Perfection: Even with Compressed Air."



Compressed air with a quality promise

With Tornado compressors, equipped with membrane drying unit. You can be sure that the compressed air supplied to your treatment units meets the highest quality standards. On request, you can have your Tornado equipped with a bacteria filter. This means that the Tornado complies with the strict regulations of the international standard ISO 22052, which specifies the quality criteria for dental compressed air.

Because we at Dürr Dental take quality very seriously, we have certified the Tornados according to this standard. For us, this means meeting our high standards of safety and reliability. For our customers, this means being able to concentrate fully on their work with patients. Because the Tornados take care of the quality of the compressed air in your practice.

Membrane Drying Unit – Always Ready to Run!

Consistency counts

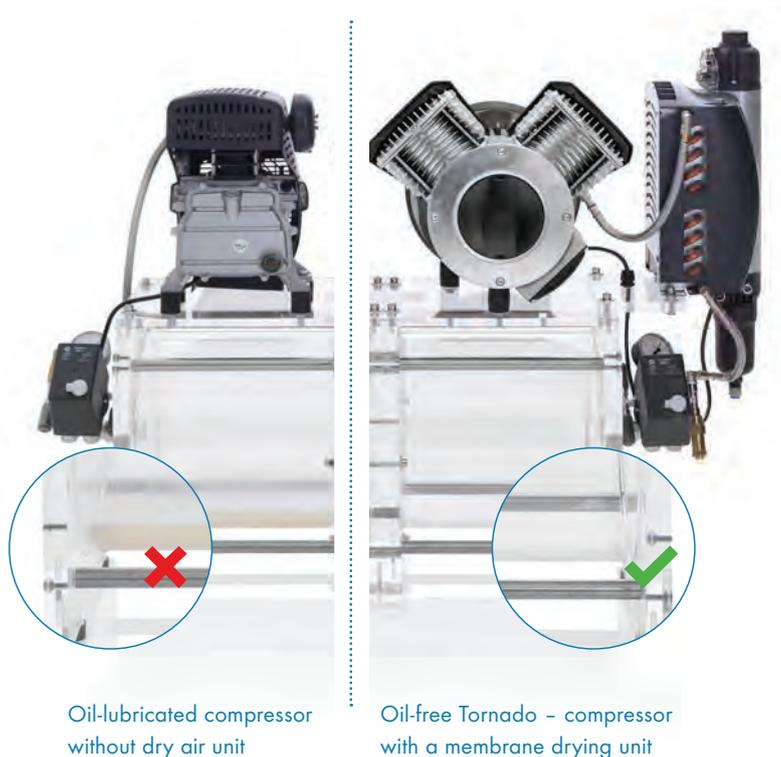
Clean air that is not contaminated by water, oil, or particles is an important hygiene factor in dental treatment. It also preserves the value of your compressor, your instruments, and your work.

The excellent drying performance of the membrane drying technology in the Tornado series removes the breeding ground for germs and makes an indispensable contribution to practice hygiene. The high-quality filters only need to be replaced once a year.

By the way: A membrane drying unit keeps you ready to go at all times, as it does not require any buffer time for regeneration.



In conventional adsorption dryers, moisture accumulates over time. This type of dryer must therefore be regenerated regularly, as shown by the gray area in the diagram. Membrane dryers maintain a constant moisture level, which means they can be used without interruption.



For the long run – durable and high-performance

There are good reasons for reliability. With Dürr Dental compressors, it is the quality of the components and the details in the technical design. The air circulation in the aggregates has been redesigned, optimizing thermal management. Heat now dissipates even better and the load during continuous operation is reduced – benefiting longevity. Having the piston sleeve replaced every ten years will ensure the functionality and value retention of your Tornado for a long time to come.

Multi-stage Filter System for Hygienic Compressed Air with Improved Reliability

Compressed air for dental applications must be oil-free, dry and hygienic, and must not contain particles that are too large. The filters used in Dürr Dental compressors ensure consistently high performance and help preserve the value of your compressed air system. With the right filters for your compressor, you also ensure optimum air quality at all times. However, even in the best filters, germs, dirt and dust accumulate over time. An annual filter change therefore ensures maximum performance, reduces wear and extends the service life of the entire compressed air system.

The Dürr Dental bacteria filter is a highperformance particulate air filter in filter class ULPA U16 according to standard EN 1822-1:2019-10 / ISO 65U according to standard ISO 29463-3:2018.



i For maximum performance, please change the filter annually.

1 Air intake filter

The first stage is the intake filter on the aggregate. In the second stage, the coalescence filter ensures particle-free and clean air and protects the high-quality membrane from contamination and damage. Finally, in stage 3, the bacteria filter removes any remaining germs and particles – the result is hygienic compressed air.

3 Fine filter

In combination with the membrane drying unit, the fine filter ensures that additional contamination by microorganisms is ruled out.

Membrane

Downstream of the Coalescence filter, 1,200 internally coated hollow membrane fibres remove moisture from the compressed air. The system delivers 100% availability without regeneration interruptions and provides a constant supply of dry compressed air during continuous operation. In this way, it protects valuable instruments and treatment results. Apart from an annual filter change, the system is maintenance-free.

2 Coalescence filter with water collecting container

Working as an inflow filter, the coalescence filter protects the downstream components of the membrane drying unit. The water is drained through a valve via the collecting container.



Technical Data at a Glance

Model	Tornado 1	Tornado 2	Tornado 4
Voltage (V)	230 (1~)	230 (1~)	230 (1~)
Frequency (Hz)	50/60	50/60	50/60
User	1	2	4
Delivery at 5 bar (l/min)			
without Membrane Drying Unit	68/78	134/153	260/296
with Membrane Drying Unit	62/70	118/137	229/261
Tank capacity (l)	20	20	50
Pressure range¹⁾ (bar)	6-7.8	6-7.8	6-7.8
Noise level at 5 bar [dB(A)]	64/68	68/71	73/75
Noise level with housing [dB(A)]	58/61	60/62	-
Noise level in the cabinet²⁾ [dB(A)]	47/49	51/53	-
Dimensions (H x W x D cm)			
without Membrane Drying Unit	69 x 48 x 41	67 x 48 x 41	73 x 78 x 54
with Membrane Drying Unit	69 x 49 x 47	67 x 49 x 47	73 x 78 x 61
with noise reduction hood and Membrane Drying Unit	84 x 63 x 60	84 x 63 x 60	-
Weight (kg)			
without Membrane Drying Unit	32	38	84
with Membrane Drying Unit	38	44	90
with noise reduction hood and Membrane Drying Unit	49	57	-

¹⁾ Optional pressure reducer is available

²⁾ Cabinet optionally available

Accessories and filters



Connect Box



Wooden cabinet, small



Pressure reducer



Air Intake filter



Bacteria filter



Fine filter



Coalescence filter



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**DÜRR
DENTAL**
THE BEST, BY DESIGN

V and VS suction systems for your practice. Tried and tested systems – redefined



V/VS suction systems - delivering optimum performance for your daily work

Today, the name DÜRR DENTAL stands for progress and innovation in dentistry - as it always has done for decades. As an innovation leader, the company sets standards with its developments and has the right product for every requirement.

In 1964, DÜRR DENTAL developed a suction system that for the first time allowed patients to be treated lying down. Back then this was a sensational development, even though we take it for granted now. 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. This philosophy has driven us to develop the tried-and-tested V and VS suction systems as the perfect suction solutions for a wide range of practice sizes.

A good dentist thinks of everything - including safety

Safety is paramount: With certification in accordance with ISO 10637, the V/VS 600, 900 S and 1200 S satisfy international safety standards that are essential for the operation of a modern dental practice. This standard ensures that the devices used meet the highest requirements and offer reliable protection. In addition, our products are certified as Class IIa medical devices in accordance with the MDR (EU 2017/745). They therefore meet all regulatory requirements and offer safety and dependability.





To ensure that you stay safe and healthy, a minimum suction volume of 300 l/min is essential.

Without this kind of suction system, the cooling spray from fast-running and ultrasonic instruments can cause an aerosol cloud to spread throughout the entire treatment room. DÜRR DENTAL V/VS suction systems deliver enough power to enable a suction capacity of 300 l/min at the cannula and thus efficiently reduce the risk of infection. It is really important that the spray mist is already extracted in the mouth of the patient so that no aerosol can form in the first place. After all, if it doesn't leave the mouth of the patient then there is no need to eliminate it afterwards. The right intraoral suction unit with a spray mist cannula therefore makes an important contribution to infection protection for the dentist, the practice team and the patient. An investment in a DÜRR DENTAL suction system not only pays off in the day-to-day treatment of patients, but also in lower operating and maintenance costs.



Exhaust air virus-bacteria filter

Outlet air from the suction unit is potentially microbially contaminated. We therefore recommend that it should pass through a virus/bacteria filter before it makes its way outside the building. Doing this protects others by keeping the surrounding air clean.

Suction systems from DÜRR DENTAL – there's much more to them

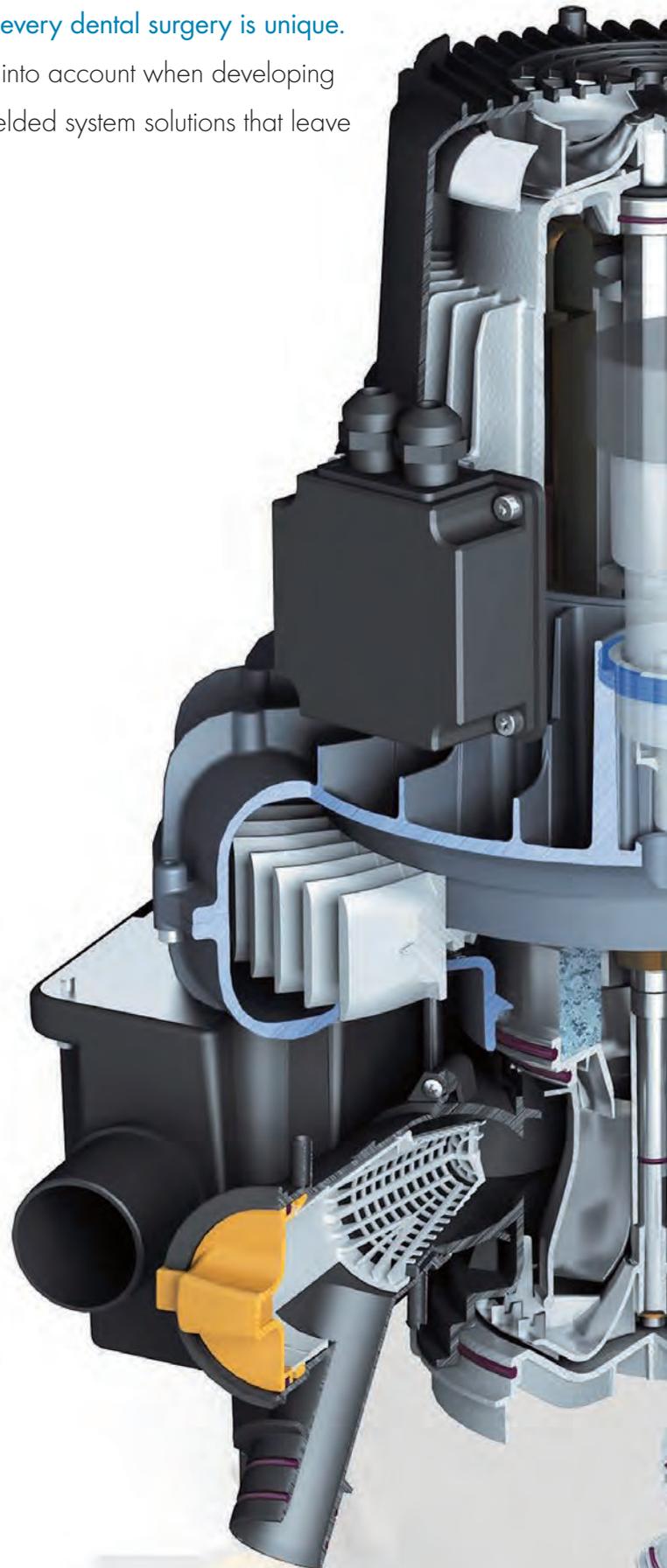
Whether in terms of work processes or available space – every dental surgery is unique. DÜRR DENTAL always takes these individual characteristics into account when developing its suction systems. Over a period of many years, this has yielded system solutions that leave nothing to be desired.

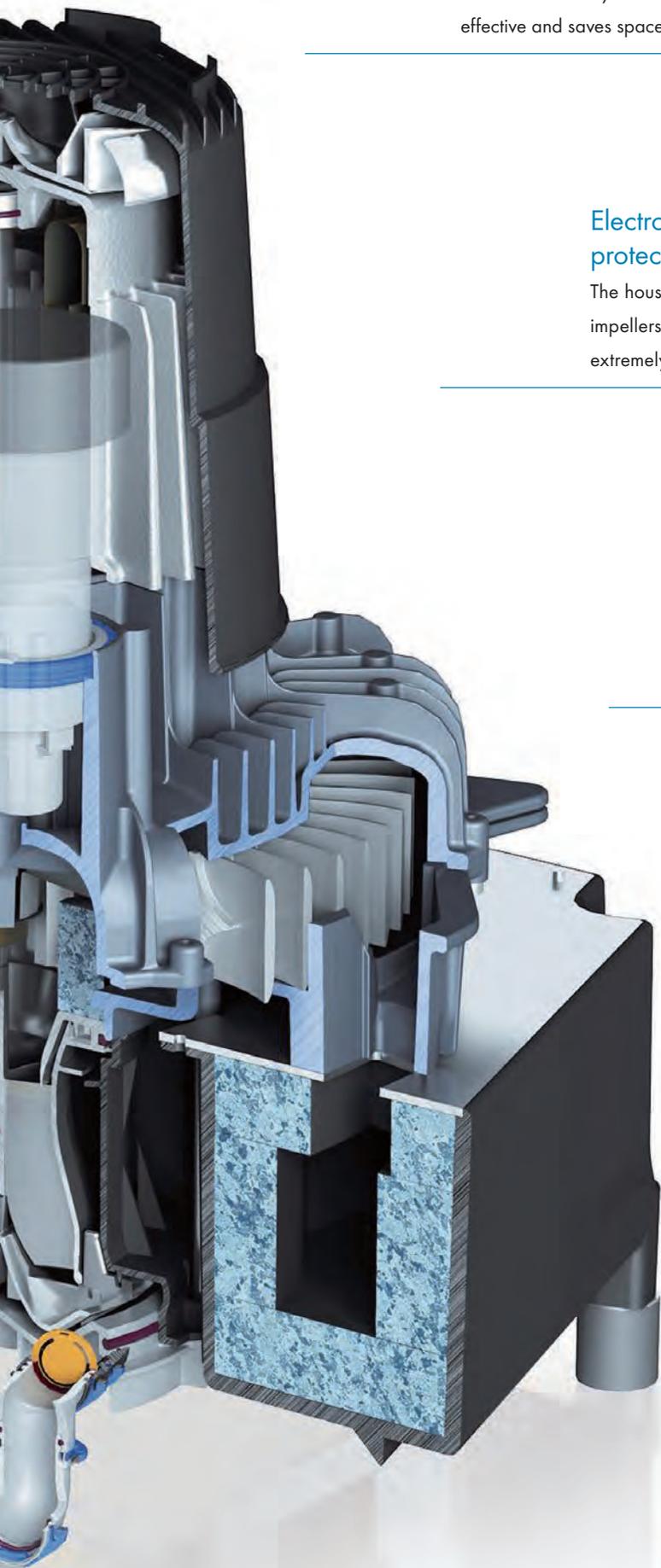
Discover the difference

The range of suction systems meets the needs of small to large dental practices. Depending on the model variant, it is possible to work in several treatment rooms at the same time. However, planning practice depends not only on performance demands but also on the architectural conditions, construction details and the technical equipment. Suction systems from DÜRR DENTAL can be installed flexibly and easily – in the basement or in an adjoining room, or the V/VS 300 S can also be installed in the treatment room itself.

Perfect cleaning and hygiene for the pipe system

A central installation in a multi-room dental practice places high demands on the cleaning and hygiene of the pipe network. With this in mind, DÜRR DENTAL has developed the "tidal wave". Behind this expression is a flow accelerator that collects the waste water from the spittoon so that it can then be aspirated in waves by the central suction unit. In this way, the suction system automatically eliminates the risk of deposits, odours and hygiene problems.





Cost-effective and compact

In VS suction units, suction and separation are combined centrally on one drive shaft. This is cost-effective and saves space.

Electroplated for corrosion protection

The housing components and high-precision impellers are made from coated aluminium or extremely corrosion-resistant plastic.

Smooth and quiet operation

The drive runs smoothly without vibrations and is highly reliable. The aerodynamic turbine wheels and the integrated noise reducer ensure quiet operation.

Regulating and cooling

The integrated auxiliary air valve regulates the suction power and ensures that sufficient internal cooling is provided.

Integrated humidity protection

All dry V suction units are fitted with a condensation separator to protect against condensed water.

Impressive performance – wet and dry

DÜRR DENTAL has the right suction solution for every practice.

When it comes to remodelling or modernizing a dental practice, the V and VS suction systems can be used even in difficult installation conditions.

Wet VS suction systems. Powerful and cost-effective.

VS represents a combination of vacuum generation and separation. All of the suction and separation tasks in the practice are centrally combined in a VS suction unit on a single drive shaft. As a result, there is no need for additional automatic separation systems on the various treatment units and the operating costs are lower than with traditional systems such as water ring pumps. DÜRR DENTAL VS suction systems can provide uninterrupted extraction of large amounts of liquids for up to four therapists at the same time. Thanks to the integrated two-stage separation system, the risk of secretions and blood foam being sucked into the turbine space is reliably prevented.



This is what counts:

- Corrosion protection for housing parts and impellers
- High-quality, robust drive motors
- Reliable function in continuous operation
- High efficiency with minimal space requirements
- High suction power within seconds
- Automatic removal of deposits

*Also available as a dry variant



The dry V suction systems. Amazing power in a matter of seconds.

The dry suction systems from DÜRR DENTAL combine extremely powerful performance with exceptionally quiet operation. They transport the waste substances over a short distance to a separation system or amalgam separator. These components are integrated in the treatment unit. Only dry air reaches the suction unit.

Seven to eight hours of continuous operation are a common occurrence. DÜRR DENTAL V suction units meet these requirements effortlessly. The contactless rotating turbine wheels generate the required vacuum and flow rate (suction power). A reliable electric motor enables non-stop operation. All models are equipped with a condensation separator as standard for reliable protection against condensation.



This is what counts:

- High-quality, robust drive motors
- Reliable function in continuous operation
- High-quality condensation separator protects the unit against the risk of condensation being sucked into the unit
- Corrosion-resistant impellers
- High suction power within seconds



V 2400



An extensive range of accessories is available for every V suction unit. All models feature a condensation separator as standard.

Special and mobile solutions

VSA 300 S and Variosuc

VSA 300 S – three components combined in a single unit

Looking at all the requirements placed on the suction system, a suction unit not only needs to separate the mixture of air/secretion/solids, but it must also separate out amalgam particles and collect them in a collecting container – in a manner that is most cost effective and best for the environment. This sounds like a big system, and one with a corresponding price tag. With its VSA technology, DÜRR DENTAL combines the suction unit, separation and amalgam separation components in a single assembly on one drive shaft and in the smallest possible space – in the VSA 300 S.



This is what counts:

- 3-in-1 technology – everything on a single drive shaft
- Cost-effective and environmentally friendly system
- Automatic fill level control
- Flexible installation options



Variosuc – the mobile suction unit

The Variosuc VS and VSA variants impress users with their compact design, ease of use and flexibility. Even under exceptional conditions, you can still trust in the high standards of a DÜRR DENTAL suction system. Once it has been plugged into the mains power outlet, the mobile device is immediately ready for use and can be deployed flexibly in your dental surgery.

This is what counts:

- Easy operation with maximum flexibility
- Simply connect it to the mains power outlet and the unit is ready for use straight away
- Impressive performance – both in the VS and VSA variants



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Keep your suction system in good shape!

Around half of all suction units suffer from restricted performance due to deposits and blockages. This is because even though most units are disinfected, they are not also cleaned. This results in substances such as blood, secretions, tooth material, filling materials and prophylaxis powder forming a dense sludge, which in turn leads to blockages (suction system failure) that can cause a drop in performance and – in the worst case – bring the practice to a complete standstill.



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
- 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.



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Technical data at a glance

VS suction systems	VS 300 S	VSA 300 S	VS 600	VS 600	VS 900 S	VS 900 S	VS 1200 S
Voltage (V)	230 (1~)	230 (1~)	230 (1~)	400 (3~)	230 (1~)	400 (3~)	400 (3~)
Frequency (Hz)	50-60	50	50	50-60	50	50	50
Electric power (kW)	0.58-0.8 ¹	0.58	1	1-1.4 ¹	1.6	1.7	1.8
Current draw (A)	2.9-3.7 ¹	2.9	5.0	2.2-2.3 ¹	7.4	3.6	3.6
Max. vacuum mbar (hPa)	200 ³	200 ³	175	185/225	180	195	205/210
Number of operators	1	1	2	2	3	3	4
Max. fluid flow rate (l/min)	4	5	10	10	16	16	24
With housing (H x W x D cm)	51 x 36 x 36	51 x 36 x 36	55 x 49 x 53	55 x 49 x 53	55 x 49 x 53	55 x 49 x 53	55 x 49 x 53
Weight without housing (kg)	13	15.5	22	22	29	27.5	27.5
Noise level² without housing [dB(A)]	Approx. 60-62 ¹	Approx. 61	Approx. 65	Approx. 65-68 ¹	Approx. 65	Approx. 65	Approx. 65
with housing² [dB(A)]	Approx. 50-53 ¹	Approx. 50	Approx. 57	Approx. 57-60 ¹	Approx. 61	Approx. 61	Approx. 61

¹The range of values results from the mains frequency range of 50-60 Hz. ²Noise levels in accordance with ISO 3746 ³Up to 200 mbar, depending on the model

Variosuc	VS 300 S	VSA 300 S
Voltage (V)	230 (1~)	230 (1~)
Frequency (Hz)	50	50
Current draw (A)	2.9	2.9
Max. vacuum (mbar) at sea level	200 ²	200 ²
Number of operators	1	1
Dimensions (H x W x D cm)	90 x 37 x 64	90 x 37 x 64
Weight (kg)	34	34
Noise level¹ [dB(A)]	Approx. 51	Approx. 53

¹Noise levels in accordance with ISO 3746 ²Up to 200 mbar, depending on the model

V suction systems	V 300 S	V 600	V 600	V 900 S	V 900 S	V 1200 S	V 2400
Voltage (V)	230 (1~)	230 (1~)	400 (3~)	230 (1~)	400 (3~)	400 (3~)	400 (3~)
Frequency (Hz)	50-60	50	50-60	50	50	50	50
Electric power (kW)	0.58-0.8 ¹	1	1.00-1.4 ¹	1.6	1.7	1.8	3.3
Current draw (A)	2.9-3.7 ¹	5.0	2.2-2.3 ¹	7.4	3.6	3.6	5.6
Max. vacuum mbar (hPa)	200 ³	180	185/205	190	195	200	200
Number of operators	1	2	2	3	3	4	8
Dimensions (H x W x D cm) without condensation separator	38 x 31 x 32	48 x 41 x 39	48 x 41 x 39	52 x 41 x 43	52 x 41 x 43	52 x 41 x 43	-
With condensation separator with housing	43 x 38 x 43 51 x 36 x 36	57 x 62 x 41 50 x 49 x 53	57 x 62 x 41 50 x 49 x 53	57 x 62 x 42 55 x 49 x 53	57 x 62 x 42 55 x 49 x 53	57 x 62 x 42 55 x 49 x 53	115 x 90 x 48 -
Weight without housing (kg)	12.5	21	21	28	26.5	26.5	65
Noise levels² without housing [dB(A)]	Approx. 60-62 ¹	Approx. 65	Approx. 65-68 ¹	Approx. 65	Approx. 65	Approx. 65	Approx. 70
with housing² [dB(A)]	Approx. 50-53 ¹	Approx. 57	Approx. 57-60 ¹	Approx. 61	Approx. 61	Approx. 61	-

¹The range of values results from the mains frequency range of 50-60 Hz. ²Noise levels in accordance with ISO 3746 ³Up to 200 mbar, depending on the model



Accessories



Soundproofing for V/VS/VSA 300 S



Soundproofing for V/VS 600-1200 S



Outlet air virus/bacteria filter

DÜRR DENTAL SE
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Germany
More information under www.duerrdental.com
info@duerrdental.com



The next generation. Tyscor V/VS suction systems.



UP TO
75%
POTENTIAL ENERGY
SAVING*

* Measured on the Tyscor VS 4
and a comparable side
channel compressor by the
Fraunhofer Institute

The story of a new radical 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 new suction system that allowed patients to be treated in a supine position 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.



LEADER IN THE INNOVATION
OF DENTAL SUCTION
UNITS FOR MORE THAN
HALF A CENTURY



Wet suction systems

A Dürr 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 therapists 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 Dürr Dental, the suction system automatically eliminates the risk of deposits, odours and hygiene problems.



Tyscor VS 1 Plus



Wet suction unit for entry into the world of radial technology for a single user. Upgradable via licence key to two users working at the same time (Tyscor VS 2).

Tyscor VS 2



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

Tyscor VS 2 Plus



Operational reliability with two suction stages

Wet suction unit for 2 therapists. Integrated touch screen display. Upgradable via licence key to 4 therapists working at the same time (Tyscor VS 4).

Tyscor VS 4



Operational reliability with two suction stages

Wet suction unit for 4 therapists. Intelligent control allows two or three suction units to be operated on a single suction pipe.

Radially brilliant

Dental technology is undergoing a radical transformation

In addition to Dürr Dental's usual quality and reliability, the newly developed suction systems with radial technology in the Tyscorpremium range are **up to 50% lighter and deliver potential energy savings of up to 75%***. They truly are setting standards in terms of performance and efficiency.

Versatile

Whatever the conditions in the dental practice – star-shaped or linear pipe layout, dry or wet suction – 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.

Tyscor V 4

The dry suction systems from Dürr Dental combine extremely powerful performance with exceptionally quiet operation. For reliable protection against condensation water, all models are equipped with a condensation separator as standard. Thanks to the modular layout, it is easy to change over from a dry suction system to a wet one.

A good dentist thinks of everything – including safety

Safety is paramount: With certification in accordance with ISO 10637, the Tyscor V/VS 2 Plus and V/VS 4 fulfil international safety standards that are essential for the operation of a modern dental practice. This standard ensures that the devices used fulfil the highest requirements and offer reliable protection. In addition, our devices are certified as Class IIa medical devices in accordance with the MDR (EU 2017/745). They therefore fulfil all regulatory requirements and offer you security.





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 network connectivity as standard, Tyscor V and Tyscor VS are not only ready for plug & play installation, but they can also be integrated just as easily via VistaSoft Monitor into the digital monitoring of practice supply systems. 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:

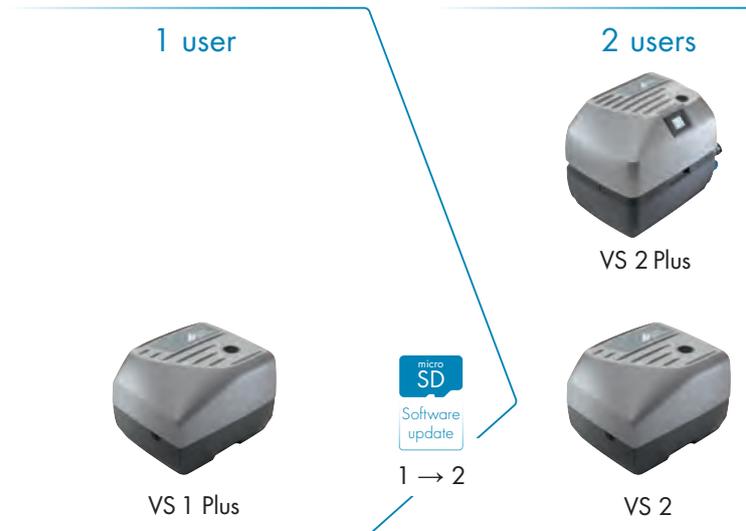
- Up to 75% energy saving potential through the use of a radial compressor*
- Perfect heat management – low heat emission to the machine environment, thus the room is heated up less
- Upgrade capability and scalability thanks to the electronic control system
- Quick and easy plug & play installation thanks to the already integrated control system and 230 V supply (no three-phase AC current required)
- Increased operational reliability thanks to early warning messages and automatic maintenance reminders
- Modular layout, option of converting from a dry to a wet suction system

* Measured on the Tyscor VS 4 and a comparable side channel compressor by the Fraunhofer Institute

A system that grows with its challenges

The electronic control system in the Tyscor suction units offers a great degree of scalability. Starting with one therapist (Tyscor V/VS 1 Plus), upgradable via licence key to two therapists (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 therapists simultaneously.

Tyscor VS 4 and VS 2 Plus offer full performance for four therapists with two suction stages. When operated in tandem, they can even supply reliable suction performance to up to eight therapists – and three Tyscor VS 4 units can be combined to deliver full power to twelve therapists.



Tyscor Tandem Flex. Scalability at all levels

Flexible and easy expansion for growing practices

With the simple expansion of a Tyscor to an existing suction system, our proven Tyscor systems offer full flexibility for the future of your practice.

This new function ensures that nothing stands in the way of expansion as your practice grows.

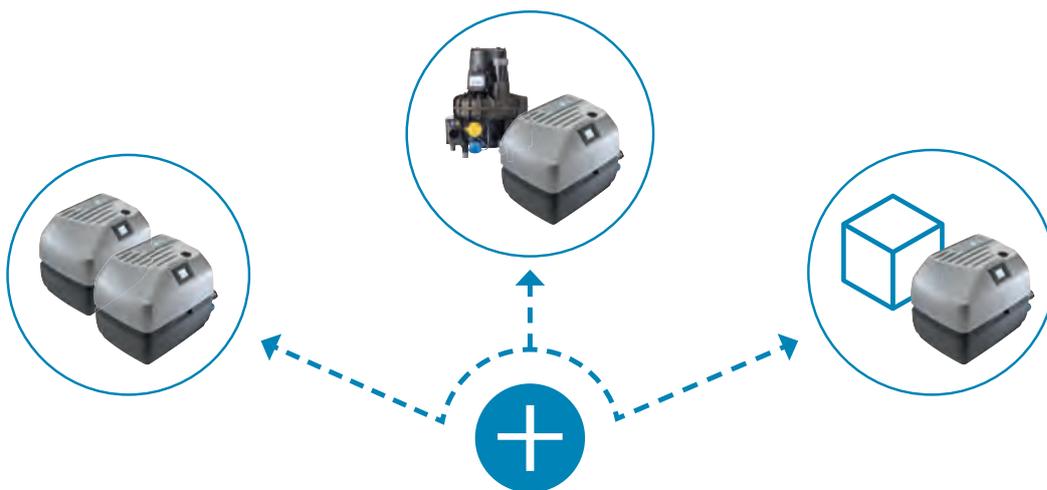
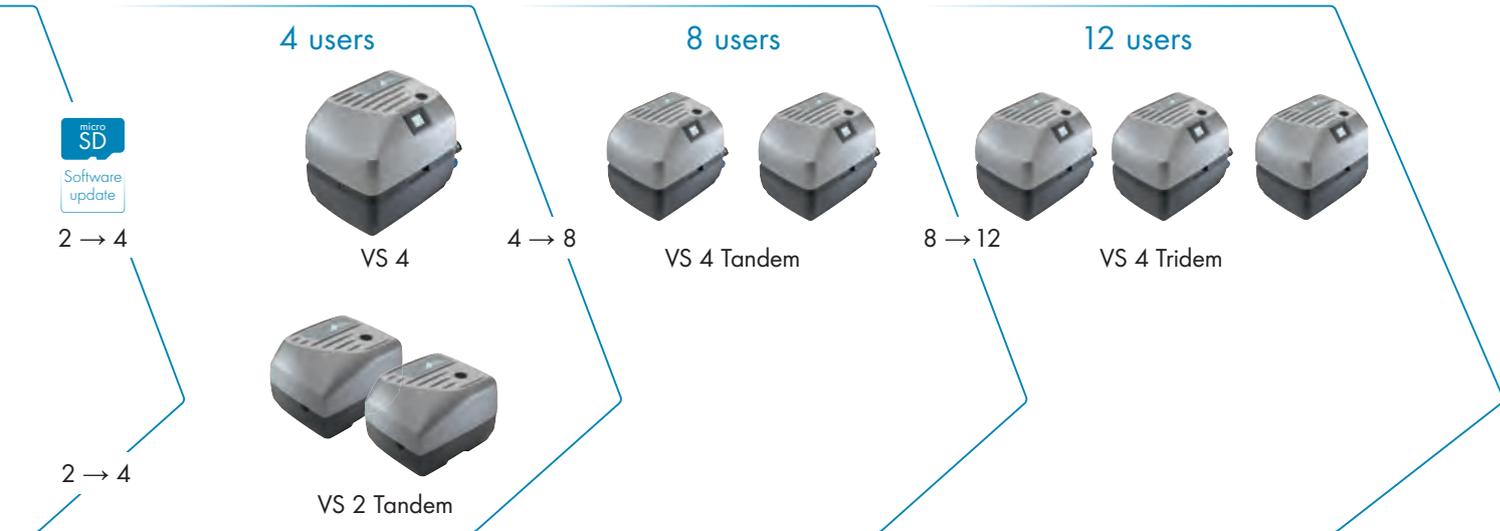
Cost-efficient and safe

Expanding existing devices instead of replacing them reduces investment costs and eliminates the need to install a second suction pipe to the suction unit. Automatic switching to the second device ensures uninterrupted treatment, even in stressful situations. Tandem operation ensures the operational reliability of the practice, even in the event of a device failure.

This is what counts:

- Reduces investment costs by expanding instead of replacing existing devices
- Adaptation to growing practice needs through uncomplicated expansion options
- Thanks to tandem operation, the practice can continue to operate even in the event of a device failure
- No installation of a second suction pipe from the assemblies to the suction unit is required

* This function is only available for the Tyscor V/VS 2 Plus and V/VS 4



Expand your suction system effortlessly to include two or four users with the Tyseor suction systems.*

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. Certified to ISO standards, nearly all of our production takes place in Germany.

Operational reliability with 2 suction stages*

[3] _____

[2] _____

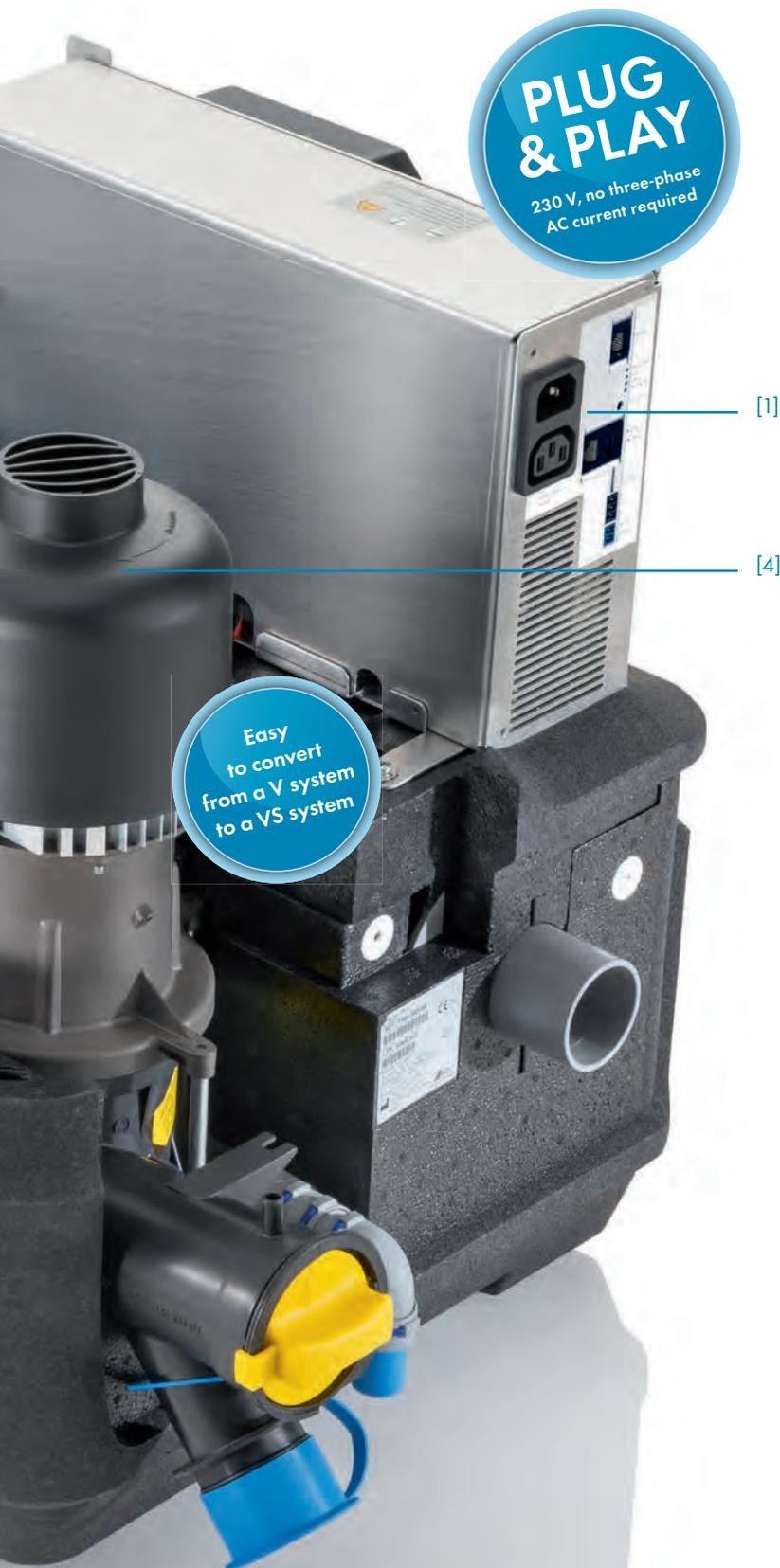


Hybrid ball bearings with ceramic balls designed to meet the highest demands

Even the simplest of parts have the highest level of quality and precision. The hybrid ball bearing combines steel with high-quality ceramic balls for smooth and reliable operation, even at high speeds. It helps to ensure that our suction unit works efficiently and requires minimal maintenance.

* With Tyscor VS 2 Plus and Tyscor VS 4





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]

As always with 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. An integrated speed monitor controls the speed of the separation unit and even switches off the machine 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.

Stay relaxed with a clear view of everything – with VistaSoft Monitor

Ensuring forward-looking surgery operation

VistaSoft Monitor, the smart home for the dental practice, assists with the collection, transmission and analysis of status-based equipment data, thereby enabling practices to respond and act with an efficiency never seen before.

The innovative cloud-based software solution from Dürr Dental integrates every device in the practice network – from supply systems to hygiene units and imaging systems. ensuring that a constant overview of the current status of monitored systems is always provided. Potential sources of errors are detected in good time and reported to the practice team, and, if required, directly to the specialist partner. This is based on a concept that enables a forward-looking, condition-based service and can thus ensure reliable operation of the dental practice.

This is what counts:

- Increased operational safety of devices thanks to early warning messages and automatic maintenance reminders
- User-friendly adjustment of device settings to the conditions in the practice (e.g. suction power modes Eco, Balanced or Boost)
- Efficient communication with the Service department, rapid analysis and fast problem solving via remote maintenance or through on-site visits by technicians who come perfectly prepared.
- Automatic notification of maintenance intervals and messages



Scan me

Keep your suction system in good shape!

Around half of all suction units suffer from restricted performance due to deposits and blockages. This is because most units are disinfected but 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 surgery.



Orotol plus:
approved disinfectant
for your
suction system



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

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.



Scan me

Technical data at a glance

Tyscor suction system	V 1 Plus	VS 1 Plus	V 2	VS 2	V 2 Plus	VS 2 Plus	V 4	VS 4
Voltage (V)	230 (1~)	230 (1~)	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	50/60	50/60
Max. electrical output (kW)	0.68	0.77	0.68	0.77	1.3	1.4	1.3	1.4
Current consumption (A)	3.0	3.3	3.0	3.3	5.8	6.2	5.8	6.2
Max. vacuum mbar (hPa)	150	150	160	160	145	145	145	145
Number of operators	1	1	2	2	2	2	4	4
Dimensions without housing (H x W x D cm)	49 x 36 x 61	32 x 36 x 46	49 x 36 x 61	32 x 36 x 46	62 x 45 x 78	51 x 45 x 69	62 x 45 x 78	51 x 45 x 69
Dimensions with housing (H x W x D cm)	52 x 45 x 71	39 x 45 x 52	52 x 45 x 71	39 x 45 x 52	-	-	-	-
Weight without housing (kg)	9	11	9	11	19	24	19	24
Noise level¹ without housing [dB(A)]	Approx. 55	Approx. 53	Approx. 57	Approx. 55	Approx. 62	Approx. 61/64	Approx. 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.



Accessories



Noise reduction hood
Tyscor V/VS 1/2



Upgrade kit for Tyscor V/VS 1
and Tyscor V/VS 2 Plus



Exhaust air virus-bacteria
filter

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**DÜRR
DENTAL**
THE BEST, BY DESIGN