

# The heart of the practice – Dürr Dental compressors

Powerful, reliable and too nice for the basement

Highest  
functional  
reliability



COMPRESSED AIR  
SUCTION  
IMAGING  
DENTAL CARE  
HYGIENE

# Dürr Dental – a spirit of innovation with attention to detail

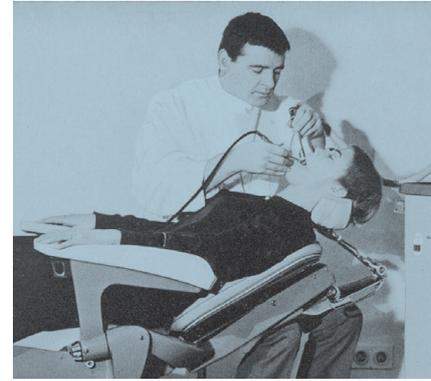
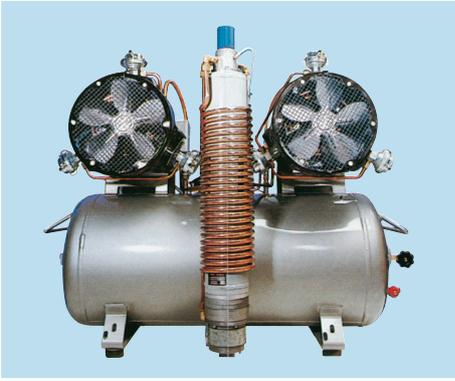
Dürr Dental has stood for progressive and trend-setting solutions in dental medicine for over 70 years. Numerous standards can be traced back to developments from Dürr Dental – with new benchmarks being set even today.

With an array of compatible system solutions for compressed air, suction, imaging, dental care and hygiene, Dürr Dental provides high-quality products and excellent service for every need. In 1964, Dürr Dental's suction system made it possible to treat patients in a supine position. One year later, the company introduced the first oil-free compressor for dentistry. The high performance and air quality of Dürr Dental compressed air systems have established them as market leaders. Dentists trust the engineering skill and top-notch quality that the leader in innovation delivers. Dürr Dental products are to be found in surgeries and clinics all over the world as has been the case for decades.



PROGRESS STARTS  
WITH IDEAS





FOR OVER 70 YEARS  
100%  
COMMITMENT



OUR  
INNOVATIONS ARE  
THE RESULT OF THINKING  
ABOUT TOMORROW,  
TODAY

# Quality builds trust – cutting-edge technology for the heart of the practice

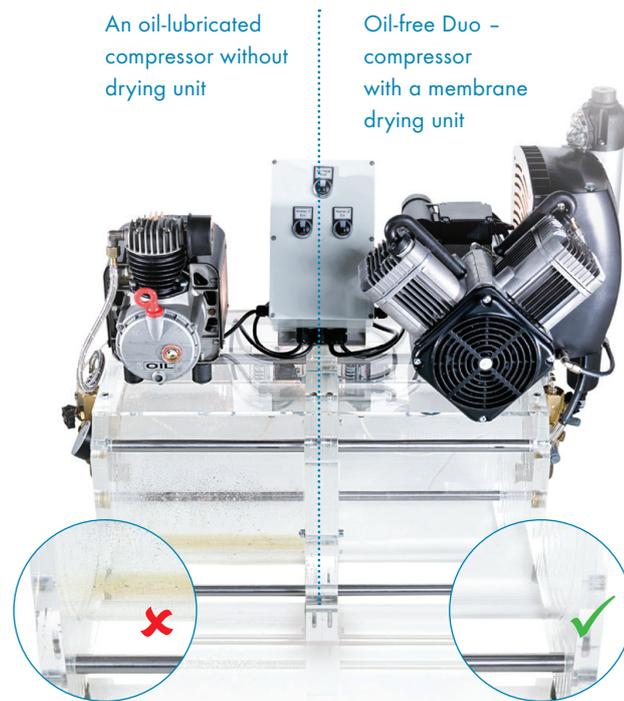
## Dental compressed air for the highest demands

Dental compressed air must be hygienic. For this reason, the moisture content must be held to a minimum, and contamination due from oil or solid particulates must be eliminated. Otherwise the shelf life of valuable preparations and the functions of delicate instruments could be jeopardized. Moreover, patient expectations in terms of hygiene and aseptic conditions must be met.

The membrane drying unit on the compressor prevents moist environments from serving as a breeding ground for organisms in the compressed air system. It not only ensures constant dryness, but also permits continuous performance availability without the buffer times needed for regeneration. The low pressure dew point ensures hygienic, taste-free and odourless compressed air.

## Robust and long service-life – perfectly suited to continuous operation of milling and grinding machines

Milling and grinding machines place especially high demands on compressors for reliable and constant compressed air. The heart of the milling machine – the spindle – needs dry, oil-free and particle-free compressed air. Using an unsuitable compressor can render the guarantee of the expensive spindle invalid. A constant flow of oil-free and dry compressed air is top priority; milling machines never take a break during operation. The duty cycle of a compressor unit when running a milling machine far exceeds the duty cycle of normal dental operations. Dürr Dental's sophisticated concept meets all these demands and is designed for continuous operation. The high-quality system components ensure highest precision and smooth running. This means the compressor operates quieter but also lasts longer. Combined with the membrane drying unit, the demand of the CAM milling machine for constant and uninterrupted compressed air is met.



Clean air, uncontaminated by water, oil or particles, is an important hygiene factor in dental treatment. It also maintains the value of your compressor and instruments.

WE PROMISE  
GUARANTEED  
TOP PERFORMANCE  
WITH ABSOLUTE RELIABILITY.

# Engineering ingenuity with passion. For maximum operational safety

## Even that which is not seen performs

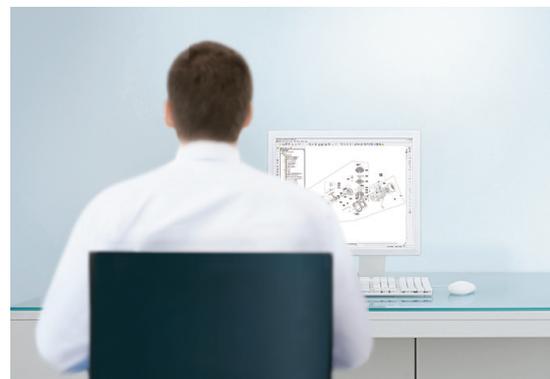
Good compressors work in the background, while dental staff concentrates on treatment. Compressors supply air/water syringe, turbines, powder-jet devices, milling machines and all other pneumatic devices. To keep surgeries running reliably and smoothly, compressors must never be short of air.

## Top quality is our standard

In order to ensure maximum quality standards, we manufacture almost exclusively in Germany. All products of our ISO-certified company are subject to strict production standards and 100 % quality control. And of course, the expertise, friendliness and creativity of our employees provide crucial added value.

## Surgery supply from a single source

As a leading manufacturer of compressed air and suction units, we offer compatible solutions for dental surgeries and laboratories, clinics and universities with several hundred treatment, simulation and phantom workstations.



## Key features:

- Oil-free, dry, hygienic
- Highest reliability and operational safety
- Hygienic compressed air, taste and odour neutral
- Antibacterial inner tank coating
- Up to 3-year warranty
- Latest drying unit technology thanks to membrane technology for 100% continuous operation

# The right amount of compressed air for every surgery



## Individual Compressor selection for 2 to 20 operators

### Duo

Classic compact compressor with 2-cylinder V-aggregate and 20-litre tank for 2 operators.



### Trio

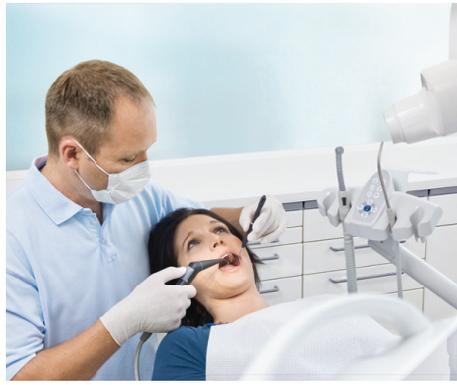
The high-performance compressor with 3 cylinders and a 50-litre tank delivers sufficient reserves for up to 3 operators.



### Quattro

The high-performance 4-cylinder compressor with a 50-litre tank for up to 4 operators.





## Performance-based decision

Above all, the selection of a compressor depends on the power reserves required and thus on the size of your surgery, the number of operators and other users of compressed air such as cleaning devices. Dürr 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 to accommodate for growing surgeries and the commensurate demand for compressed air. Dürr Dental and specialist dental product distributors can provide you with further information about the right compressed air solution.

### That is what matters:

- Selection of compressors for 2 to 20 practitioners
- Expandable via tandem principle
- High-performance compressors for large surgeries, clinics and dental laboratories
- Compressors with multiple units and an electronic control, suited to networking with Tyscor Pulse
- Two Tandem compressors can be used in parallel in a single compressed air network

## Duo Tandem

The flexible solution for growing performance requirements. With its 50-litre tank it can work with 1 or 2 aggregates for up to 4 operators as required.



## Quattro Tandem

Top performance for dental laboratories and large surgeries – a 90-litre tank with a choice of 1 or 2 aggregates for up to 10 operators.



## Quattro P 20

Highest compressed air performance at very small footprint for dental laboratories and large surgeries. Redundant system for the highest reliability.



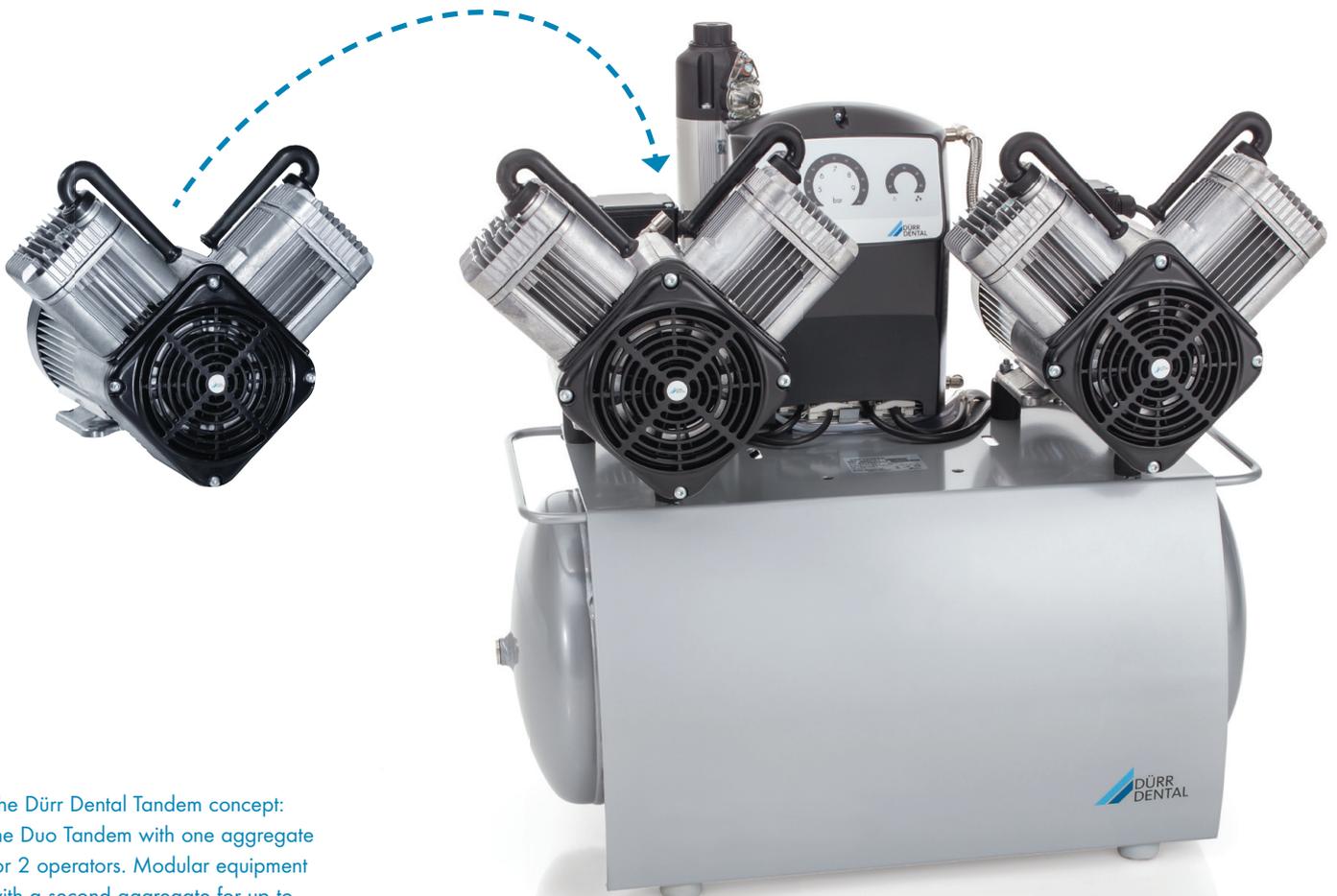
# Clever ideas for your surgery – the Tandem concept and network connection

## A solution with options for more

Dürr Dental compressors in the Tandem version provide particularly high operational and future safety. The possibility for modular upgrades makes it a flexible solution with the option for more. The basic version of the Duo Tandem provides 2 operators with a reliable compressed air supply using a single aggregate.

The dimensions of the compressor tank enables it to incorporate 2 aggregates. Should you wish to expand your surgery, adding an aggregate will double the capacity reserve to 4 operators. An intelligent control (master/slave) enables two compressors to be run on a single compressed-air line. Along with the Quattro Tandem with one or two aggregates, top performance is reached with the Quattro P 20 with 4 aggregates for up to 20 operators.

OUR GOAL IS TO  
ALWAYS DELIVER  
THE BEST RESULT  
FOR OUR CUSTOMERS



The Dürr Dental Tandem concept: the Duo Tandem with one aggregate for 2 operators. Modular equipment with a second aggregate for up to 4 operators.



## Go digital – with the Tyscor Pulse software

Modern dental surgeries are used to working with digital systems. Peripheral devices are always under control: from diagnostic imaging to hygiene documentation and invoicing, networked software solutions keep surgery staff constantly up to date. But what about the status of the compressor and suction unit? The compressor is the heart of the practice. Suction keeps the circulation going. Ensuring smooth operation of both systems is vital to daily operation of the surgery. This is why Dürrental has developed the Tyscor Pulse software. Tyscor Pulse integrates the supply systems in the surgery network, providing a constant overview of the current status of monitored systems. The software automatically informs about pending maintenance tasks, such as filter replacement or the replacement of the amalgam single-use container. In the event of a fault, Tyscor Pulse shows whether you can rectify the problem yourself or offers the option of directly informing a service technician via e-mail, who can immediately look for a solution using a remote maintenance function. The intuitive device manager of the Tyscor Pulse software enables easy control of the functions of the networked devices via your PC.



### Key features:

- Your practice supply is always in view
- Overview of operational status of all connected devices in the task bar of your PC
- Remote access to the units by depot technicians via Tyscor Pulse
- Central management of connected devices
- Maintenance intervals are always under control, for the highest degree of operational safety
- Quick and safe diagnoses for service purposes
- Available for all Tandem models with a 400 V 3~ connection and the Quattro P 20

# The membrane drying unit – patented technology from Dürr Dental

## Continuous performance thanks to membrane drying unit

Equipped with the innovative membrane drying unit from Dürr Dental, the compressor provides two unrivalled benefits:

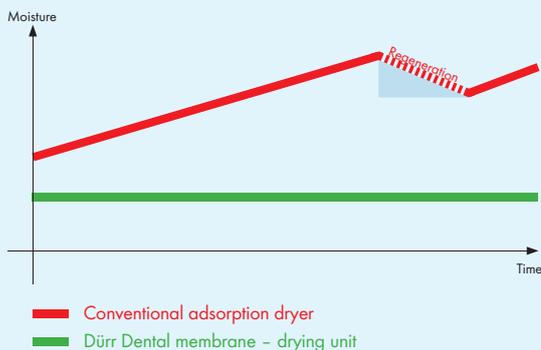
- Constant performance with guaranteed dryness, even during continuous operation
- The membrane-drying unit creates constantly dry compressed air with a pressure condensation point of 5°C at 40°C ambient temperature, eliminating condensation in the piping under normal conditions

Since the membrane-drying unit prevents the development of moist environments, micro-organisms lose their breeding ground. Dry air protects your instruments, helps preserve their value and helps ensure hygienic treatment conditions.

Protect your valuable instruments and the quality of your treatment outcomes with the membrane drying unit.

## Key features:

- Continuous performance even when operated by a large number of connected users
- Constantly dry compressed air, even during continuous use
- Protection of valuable instruments and treatment results
- Maintenance free, just one filter change per year



After longer operation of the compressors, moisture in the adsorption dryer increases. Yet the membrane drying unit remains dry and requires no regeneration interruption.

YOU ARE PROBABLY NOT SO INTERESTED IN OUR QUEST FOR KNOWLEDGE.  
BUT YOU PROBABLY DO WANT TO  
ENSURE THAT WE CAN PRESERVE  
THE QUALITY AND VALUE OF YOUR  
INSTRUMENTS AND WORK

# Even greater protection from infections

## Antibacterial inner tank coating

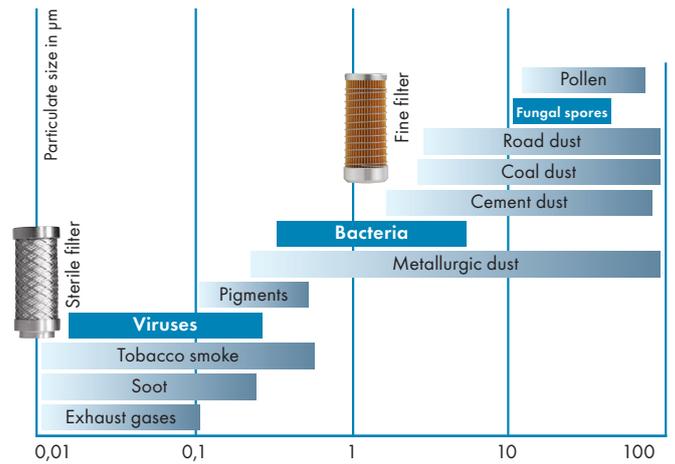
Bacteria always harbours the potential for certain hazards and in unfortunate cases can lead to infection. The insides of the tank of Dürr Dental compressors are therefore coated with a special anti-bacterial material. Nowadays this fine lining is already displaying its germ-reducing effect in refrigerators, textiles and light switches. Silver particles block enzymes that keep bacterial metabolism going. The antibacterial coating in the tank of Dürr Dental compressors provides even greater safety and also prevents corrosion.



# Small component. Big impact.

## Very easy filter change 1x per year. For full power, efficiency and value retention

The air-intake, sinter and fine filters for the membrane drying unit and compressor aggregates ensure the constant performance of your compressor. The optional sterile filter rules out additional contamination in connection with the membrane drying unit. These filters are easy to change and must be done so only once a year – for full power, efficiency and value-retention.



Although Dürr Dental sterile filters do not produce sterile air, they come with a 0.01 µm filter mesh size.



Find the correct filter for your compressor at [www.duerr.de/filter](http://www.duerr.de/filter)



View filter change clip

# The technology at a glance – Dürr Dental compressors and accessories

Model	Duo	Duo Tandem 1 aggregate	Duo Tandem 2 aggregates	Trio
<b>Voltage: (V)</b>	400 (3~) *	400 (3~)	400 (3~)*	230 (1~)
<b>Frequency (Hz)</b>	50/60	50/60	50/60	50
<b>Cylinder</b>	2	2	4	3
<b>Delivery at 5 bar<sup>1)</sup> (l/min)</b>	115/130	115/130	230/260	160
<b>Tank capacity (l)</b>	20	50	50	50
<b>Noise level<sup>3)</sup> [dB(A)]</b>	c. 68	c. 68	c. 69	c. 69
<b>Noise level in cabinet<sup>3)</sup> [dB(A)]</b>	c. 55	-	-	c. 54
<b>Dimensions (H x W x D cm)</b>	64 x 49 x 46	76 x 75 x 52	76 x 79 x 52	76 x 74 x 52
<b>Weight (kg)</b>	47	64	90	70

Model	Quattro	Quattro Tandem 1 aggregate	Quattro Tandem 2 aggregates	Quattro P 20
<b>Voltage: (V)</b>	400 (3~)	400 (3~)	400 (3~)	400 (3~)
<b>Frequency (Hz)</b>	50/60	50/60	50/60	50/60
<b>Cylinder</b>	4	4	8	16
<b>Delivery at 5 bar<sup>1)</sup> (l/min)</b>	215/240	215/240	430/480	860/960
<b>Tank capacity (l)</b>	50	90	90	90
<b>Noise level<sup>3)</sup> [dB(A)]</b>	c. 70	c. 70	c. 74	c. 78
<b>Noise level in cabinet<sup>3)</sup> [dB(A)]</b>	c. 54	-	-	-
<b>Dimensions (H x W x D cm)</b>	76 x 74 x 52	76 x 102 x 62	76 x 102 x 62	113 x 115 x 77
<b>Weight (kg)</b>	82	98	143	285

\* Also available in 230 (1~).

<sup>1)</sup> Delivery with dry air <sup>2)</sup> A pressure reducer is optionally available <sup>3)</sup> Average values at 5 bar and 50 Hz



Noise-reducing cabinets are also optionally available.

Pressure reducer



Sterile filter



Fine filter



Sintered filter



Air intake filter



We recommend annual filter change for optimal operational safety and value retention.

