

# The heart of your practice – Dürr Dental compressors

Powerful, reliable and too nice for the basement

Highest  
functional  
reliability



COMPRESSED AIR  
SUCTION  
IMAGING  
DENTAL CARE  
HYGIENE

# Dürr Dental – the spirit of innovation with a passion for 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 offers high-quality products and excellent service for every need. In 1964 Dürr Dental used a suction system to treat European patients in a reclined position. One year later, the company introduced the first oil-free compressor for dentistry. Compressed air systems from Dürr Dental are market leaders as a result of high performance and air quality. Dentists trust the engineering skill and exceptional quality that the leader in innovation delivers. Products from Dürr Dental are found in practices and clinics all over the world – and this has been the case for decades.



PROGRESS STARTS  
WITH IDEAS





FOR OVER 70 YEARS  
TOTAL  
DEDICATION



OUR  
INNOVATIONS ARE  
THE RESULT OF CONSTANTLY THINKING  
ABOUT TOMORROW  
TODAY

# Quality creates trust – leading-edge technology for the heart of the practice

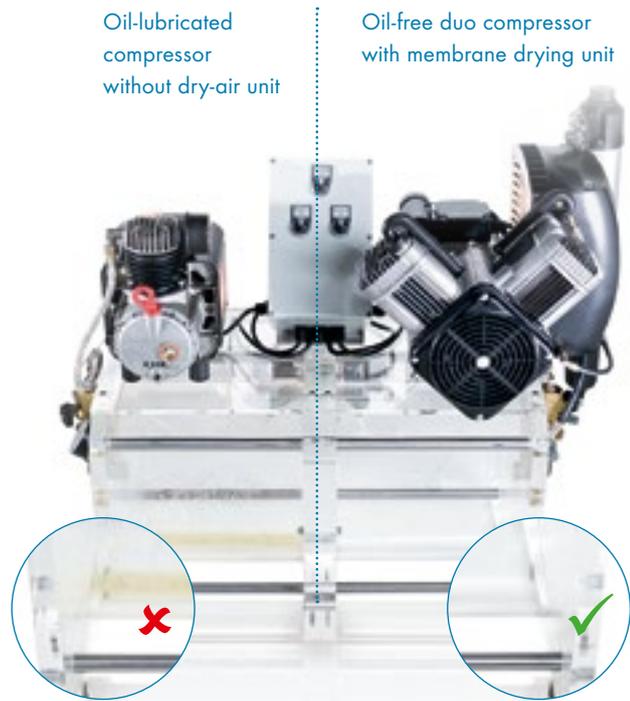
## Compressed air for the highest demands in dentistry

Dental compressed air must be hygienic. For this reason, the moisture content must be held to a minimum, and contamination due to oil or solid particles must be eliminated. otherwise the longevity of treatments and the functionality of delicate instruments could be jeopardized. The hygienic and aseptic expectations of patients must also be met.

The membrane-drying unit on the compressor prevents moist environments becoming breeding grounds for organisms. It not only provides constant, dry compressed air, but also provides a continuous supply of power that does not need to be interrupted. The low pressure dew point ensures hygienic, tasteless 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 because 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 particulates, is an important hygiene factor in dental treatment. It also maintains the value of your compressor and instruments.

WE GUARANTEE  
TOP PERFORMANCE  
WITH ABSOLUTE RELIABILITY.

# Engineering ingenuity with passion. For maximum operational safety

## Hidden performance

A good compressor works in the background, while dental staff concentrate on treatment. It supplies air/water jets, 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 enterprise 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 aligned solutions for dental surgeries and laboratories, clinics and universities with several hundred treatment, simulation and phantom workstations.



## Key features:

- Oil-free, dry, hygienic
- High reliability and operational safety
- Hygienic taste and odourless compressed air
- Up to 3-year warranty
- The latest drying unit technology

# The right measure of compressed air for every surgery



## Individual Compressor selection for 2 to 20 operators

### Duo

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

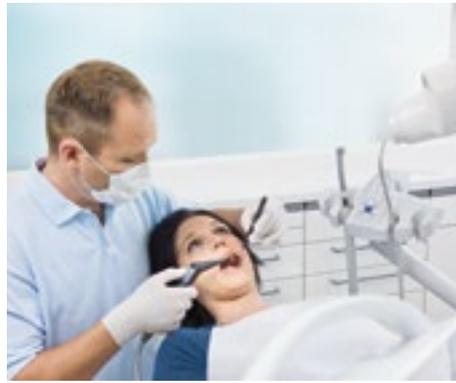
### Trio

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 retailers will advise you on the right compressed air solution for your needs.

### Key features:

- 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 units 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 units for up to 10 operators.



### Quattro P 20

The best air-supply performance with very small footprint for dental laboratories and large surgeries. A system for the highest reliability.

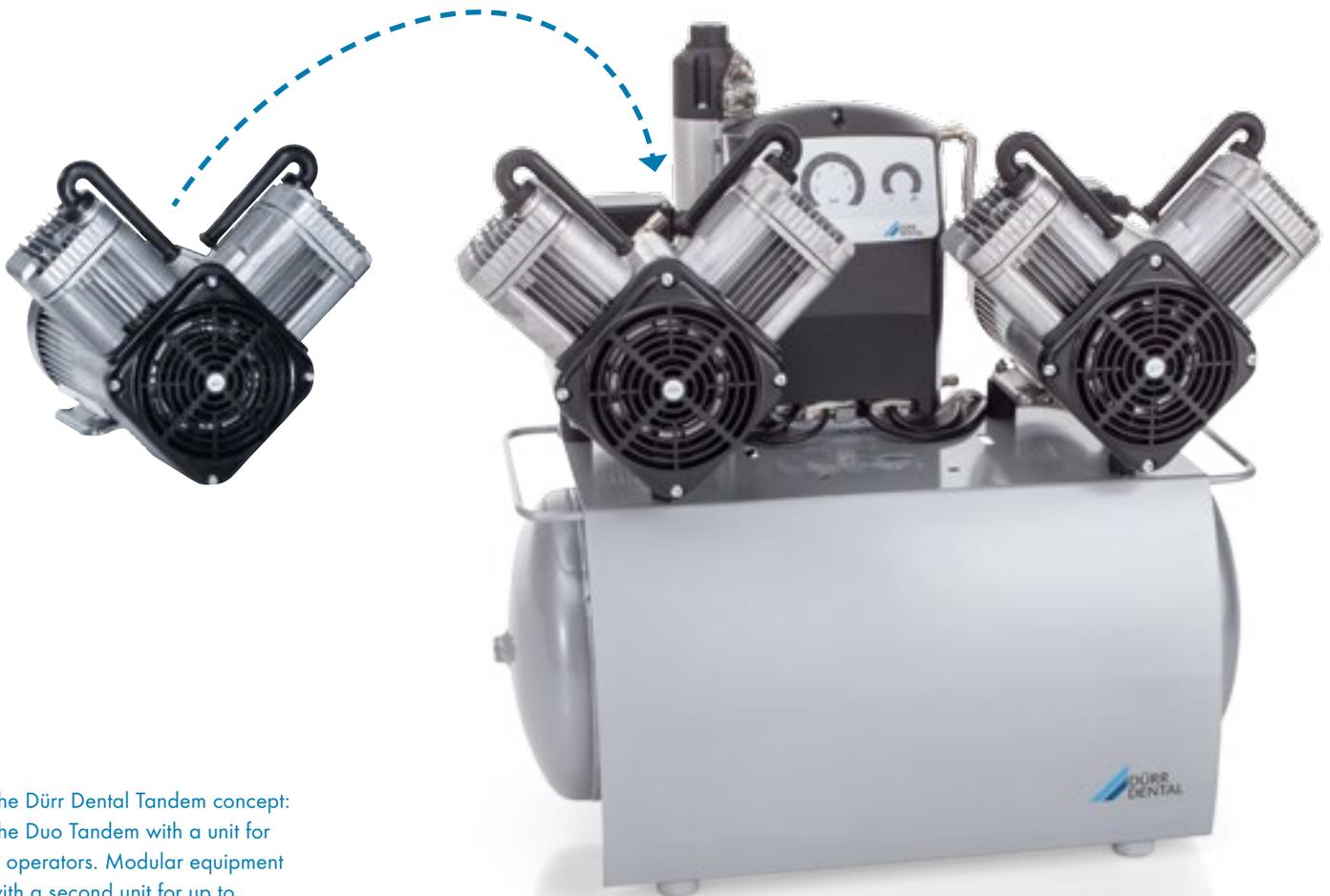


# Clever ideas for your surgery – the Tandem concept and network connection

## A solution with options for more

Dürr Dental compressors in the Tandem version provide particularly high operational and future security. The possibility for modular upgrades makes it a flexible solution with the option for more. The basic version Duo Tandem provides 2 operators with a reliable compressed air supply using a single unit. The dimensions of the compressor tank enables it to incorporate two units. Should you wish to expand your surgery, adding a unit will double the capacity reserve to 4 operators. An intelligent control enables two compressors to be run on a single compressed air line. Along with the Quattro Tandem with one or two units, top performance is reached with the Quattro P 20 with 4 units 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 a unit for  
2 operators. Modular equipment  
with a second unit 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 surgery. Suction keeps the cycle in motion. Ensuring smooth operation of both systems is vital to daily operation of the surgery. Dürer Dental has developed Tyscor Pulse software for this reason.

Tyscor Pulse integrates supply technology into the surgery network thus providing a constant overview of the current status of monitored systems. The software sends automatic notification of scheduled maintenance such as filter changes, or the pending change of the amalgam collecting container. In case of disturbance, Tyscor Pulse shows whether you can remedy the problem yourself or offers the option to directly inform a service technician. The technician can immediately look for a solution using a remote maintenance function. The functions of networked devices are conveniently controlled from your computer with the intuitive device manager in the Tyscor Pulse software.



### Key features:

- Supply engineering on the computer always in view
- Operating states displayed on the task bar can be accessed on the PC
- Quick service-call help via remote maintenance from the service technician
- Central administration of connected devices
- Maintenance intervals always under control for maximum operational safety
- Quick and safe diagnosis when servicing
- Available for all Tandem models and the Quattro P 20 with a 400 V 3~ connection

# The membrane drying unit – patented technology from Dürr Dental

## Constant full-power availability thanks to the membrane drying unit

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

- Continuous performance under dry conditions, even during continuous operation.
- The membrane drying unit generates a constant dry compressed air supply with a pressure dew point of 5°C at 40°C ambient temperature and prevents condensate formation in the line system 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, preserves their value and helps ensure hygienic treatment conditions.

Result: The membrane drying unit preserves your valuable instruments and prevents moisture effecting your treatments.

## Key features:

- Continuous performance availability, no regeneration interruptions for continuous use by a large number of connected users
- Constantly dry compressed air, even during continuous use
- Protection of valuable instruments and treatment results
- Maintenance-free, the filters just need changing once a year



Filter chamber with  
purge-air nozzle and  
moisture indicator

1,200 interior membrane  
hollow fibres

After prolonged use of the compressor, humidity can rise in the adsorption drier. Yet the membrane dryer remains constantly dry and requires no interruption to supply.

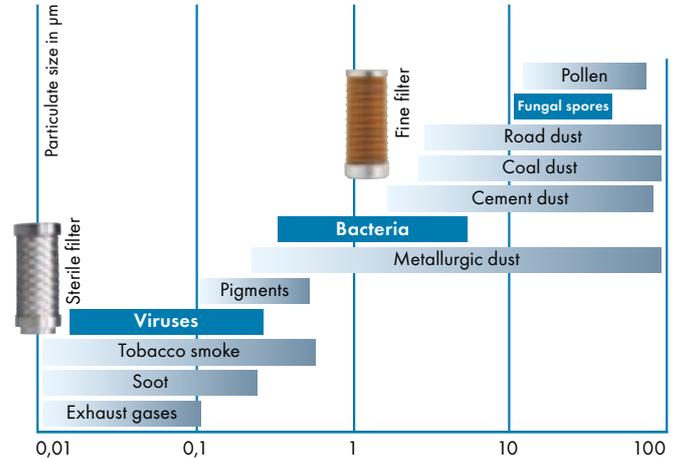
YOU ARE PROBABLY NOT SO INTERESTED IN OUR QUEST FOR KNOWLEDGE.

BUT YOU PROBABLY ARE IN  
MAINTAINING THE QUALITY  
OF YOUR INSTRUMENTS  
AND YOUR WORK

# Small component. Big impact. Change the filter once a year!

For the optimum air quality, full power and the maintaining the value of your compressor

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



Although Dürer Dental sterile filters do not produce sterile air, their filter mesh size is 0.01 µm!

## The sintered filter for membrane drying unit

The sintered filter provides particle-free and clean air, providing the high-value membrane with protection against soiling and damage. Dirt and dust clog the sintered filter over time, leading to higher energy consumption and wear to the compressor. The fan output declines and a defective filter can cause subsequent damage to the membrane. The annual filter change guarantees maximum output, lower wear and a higher service life of the complete compressed air system.

The sintered filter performs an important role in the dry-air system, acting as an inflow filter. It should be replaced annually.

**Water collecting container with sintered filter**  
Working as an inflow filter, the sintered filter protects the subsequent components of the membrane-drying unit. The water is transported through a valve via the collecting container.



**1,200 interior membrane hollow fibres**  
After the sintered filter, the compressed air is dried by the membrane hollow fibres.

Cross-section of a membrane drying unit on the compressor

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

Model	Duo	Duo Tandem 1 generator	Duo Tandem 2 generator	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>Flow rate 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>Pressure range<sup>2)</sup> (bar)</b>	6–7.8	6–7.8	6–7.8	6–7.8
<b>Noise level<sup>3)</sup> [dB(A)]</b>	approx. 68	approx. 68	approx. 69	approx. 69
<b>Noise level in cabinet<sup>3)</sup> [dB(A)]</b>	approx. 55	-	-	approx. 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 unit	Quattro Tandem 2 units	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>Pressure range<sup>2)</sup> (bar)</b>	6–7.8	5.5–7.5	5.5–7.5	5.5–7.5
<b>Noise level<sup>3)</sup> [dB(A)]</b>	approx. 70	approx. 70	approx. 74	approx. 78
<b>Noise level in cabinet<sup>3)</sup> [dB(A)]</b>	approx. 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 an annual filter change for optimal operational safety and longevity.

