

# The heart of your practice – Dürr Dental compressors

Powerful, reliable – and too nice for the the basement!



# Dürr Dental – combining a spirit of innovation with passion for detail

For over 79 years Dürr Dental has stood for progressive and trend-setting solutions in dental medicine. Numerous standards can be traced back to developments from Dürr Dental – with new benchmarks still 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 the suction system from Dürr Dental enabled patients in Europe to be treated lying down. One year later, the company introduced the first oil-free compressor for dental medicine to the market. Compressed air systems from Dürr Dental are market leaders thanks to their high performance and air quality. Dentists trust the engineering skills and top-notch quality that are delivered by the innovation leader. 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 79 YEARS:  
**100%**  
**COMMITMENT**



WE  
DELIVER INNOVATIONS  
BY THINKING ABOUT  
TOMORROW  
TODAY

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

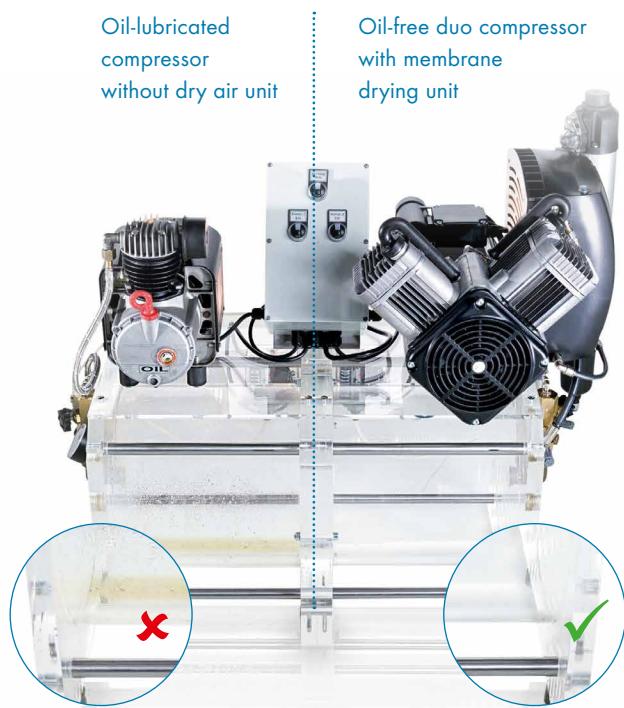
## Compressed air for the highest demands in dentistry

Dental compressed air has to be hygienic, and this means that the moisture content must be reduced to a minimum and contamination with oil or solid particulates must be ruled out. Otherwise the shelf-life of valuable preparations could be shortened and delicate instruments would be at risk of malfunctioning. The hygienic and aseptic expectations of patients must also be met.

The membrane drying unit on the compressor prevents moist environments from forming in the compressed air system and becoming breeding grounds for organisms. It not only ensures constant dryness, but also ensures uninterrupted availability of compressed air without any of the buffering times required for regeneration. The low pressure dew point guarantees that the compressed air is hygienic, tasteless and odourless.

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

Milling and grinding machines place especially high demands on compressors with regard to a reliable and constant compressed air supply. The heart of the milling machine – the spindle – needs dry, oil-free and particle-free compressed air. The warranty of the expensive spindle can be voided if an unsuitable compressor is used. During operation, a constant flow of oil-free and dry compressed air is therefore the top priority – after all, milling machines are never allowed to 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 maximum precision and smooth running. This means that the compressor operates more quietly – but also lasts longer. Combined with the membrane drying unit, the demands of CAM milling machines for continuous and uninterrupted compressed air supply are 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 PROMISE  
GUARANTEED  
TOP PERFORMANCE  
WITH ABSOLUTE RELIABILITY.

# Engineering ingenuity with passion. For maximum operational safety

## Hidden performance

A good compressor works in the background, while the dental staff concentrate on treatment. Compressors supply air and water syringes, turbines, powder-jet devices, milling machines and all other pneumatic devices. To keep surgeries running reliably and smoothly, this makes it all the more important that compressors never run out of air.



## Top quality is our standard

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 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 coordinated 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, tasteless and odourless compressed air
- Up to 3-year warranty
- State-of-the-art air drying technology

# The right amount of compressed air for every surgery



Individual  
compressor selection for  
1 to 20 operators

Primo

The Primo is the smallest model in the Silver Airline range perfectly suited for a single operator.

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





## Performance-based decision

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 operators and the number of other compressed air consumers, 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 that accommodate expanding surgeries and their growing needs for compressed air. Dürr Dental and your specialist retailer will advise you on the right compressed air solution for your needs.

### Key features:

- Selection of compressors for 1 to 20 operators
- 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

### Duo Tandem

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

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

4

8

16

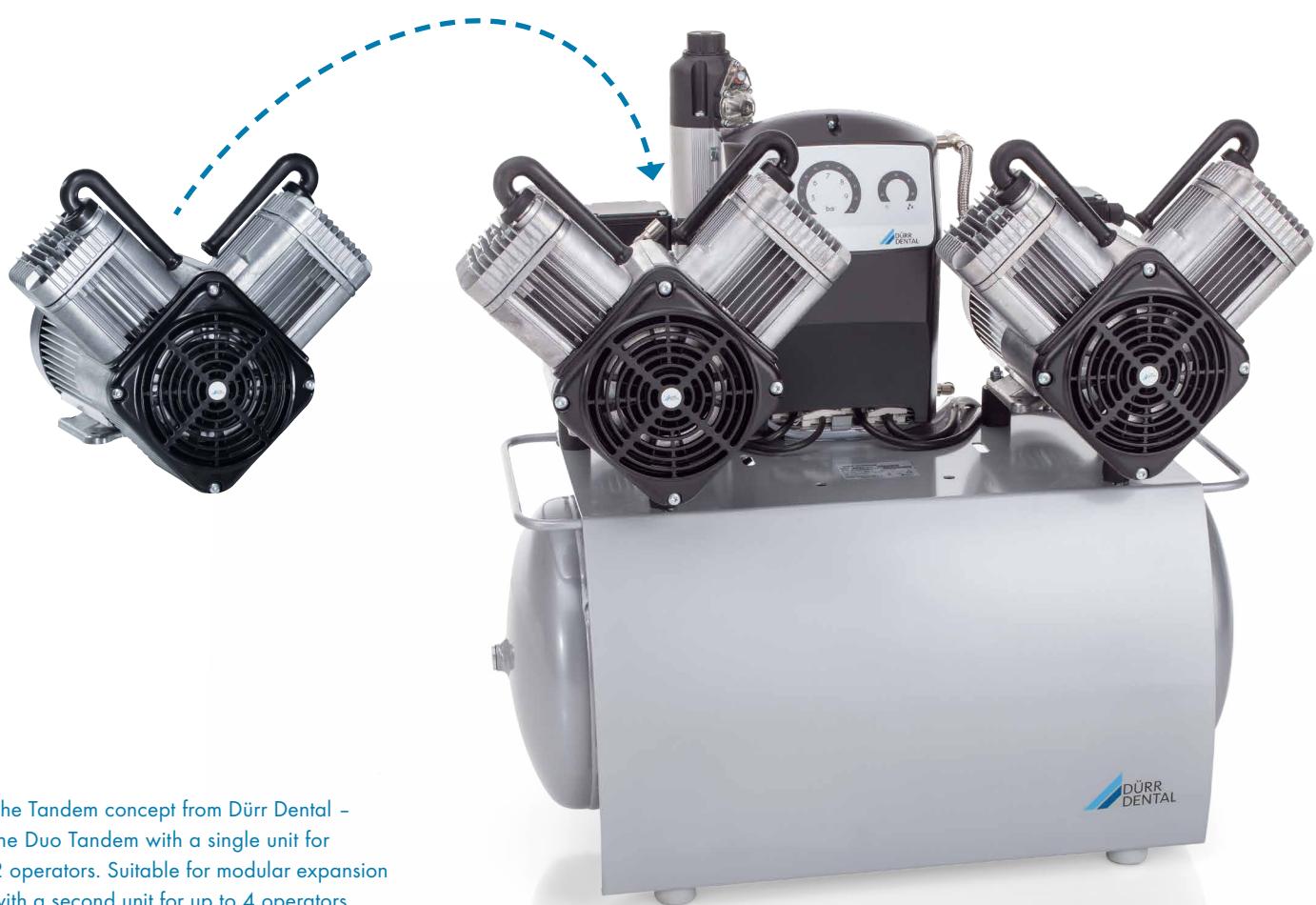


# Clever ideas for your surgery – the Tandem concept and network connection

## A solution with options for more

The Tandem line of compressors from Dürr Dental offers particularly high operational reliability and is completely future-proof. The possibility of 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 from a single unit. However, the compressor tank is dimensioned so that it can house two units. If you wish to expand your surgery, adding a unit will double the available output to 4 operators. An intelligent control system enables two compressors to be run on a single compressed air line. Alongside the Quattro Tandem with one or two units, the maximum output is reached with the Quattro P 20, which features 4 units for up to 20 operators.

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



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



## Go digital

In modern dental surgeries, it is commonplace to work with digital systems. Full control over peripheral devices: from diagnostic imaging to hygiene documentation and invoicing, networked software solutions keep surgery staff up-to-date at all times. But what about the status of the compressor and suction unit? The compressor is the heart of the practice. Suction keeps the cycle in motion. Ensuring smooth operation of both systems is vital to daily operation of the surgery.



The 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 software sends automatic notification of scheduled maintenance – such as filter changes, or the pending change of the amalgam collecting container. 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.

### Key features:

- 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
- Quick and safe diagnosis when servicing
- Available for all Tandem models and the Quattro P 20 with a 400 V 3~ connection

# Membrane drying unit – patented technology from Dürr Dental

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

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

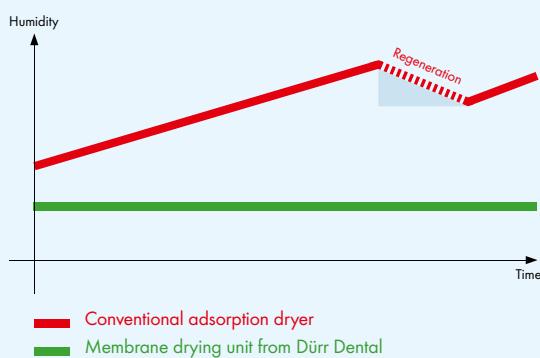
- Continuous performance availability with consistently dry air, even during continuous operation.
- The membrane drying unit generates a constant dry compressed air supply with a pressure dew point of 5°C at 40°C ambient temperature and prevents condensate formation in the line system under normal conditions.

Since the membrane drying unit prevents the development of moist environments, there is no breeding ground for micro-organisms. Dry air protects your instruments, preserves their value and helps ensure hygienic treatment conditions.

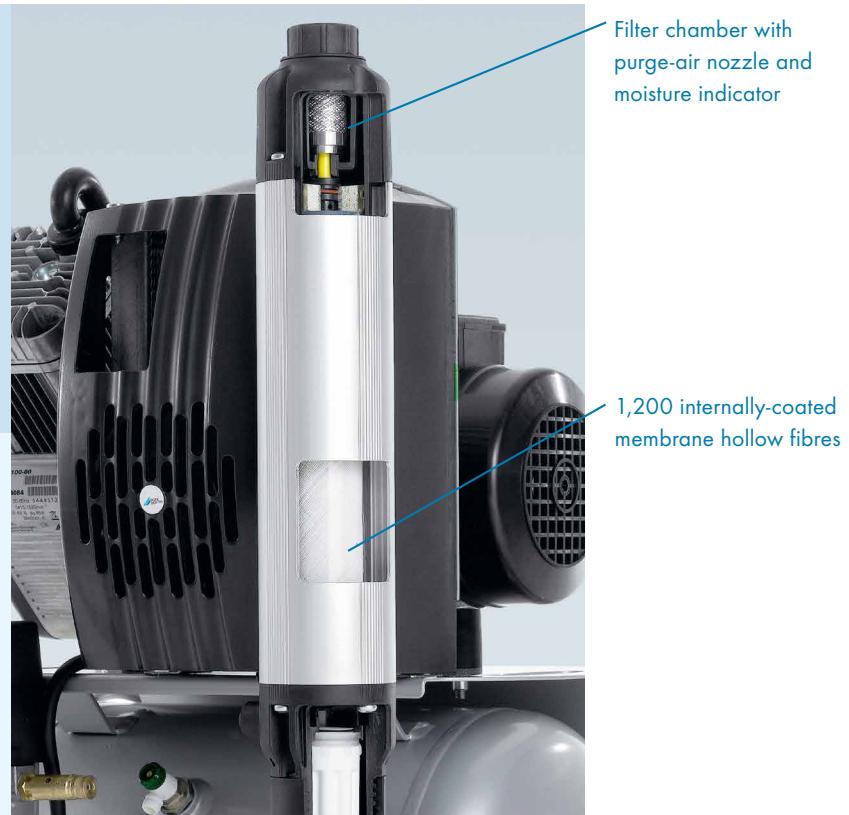
Result: the membrane drying unit preserves your valuable instruments and prevents moisture from affecting your treatment results.

## Key features:

- Continuous performance even when operated by a large number of connected operators
- Consistent and uniform dryness of the compressed air, even during continuous operation
- Protection of valuable instruments and treatment results
- Maintenance-free – the filters just need to be changed once a year



After prolonged use of the compressor, humidity can increase in the adsorption drier. The membrane drying unit, on the other hand, remains constantly dry and requires no interruption for regeneration.



OUR CUSTOMERS MAY NOT CARE TOO MUCH  
ABOUT OUR QUEST FOR KNOW-HOW.

BUT THEY PROBABLY ARE  
INTERESTED IN MAINTAINING  
THE QUALITY OF  
THEIR INSTRUMENTS

# A small component – but a big impact. Change the filter once a year!

For optimum air quality, maximum compressed air output and preserving the value of your compressor

The filters installed in the Dürr Dental compressors ensure that consistent performance is maintained and will help preserve the value of your compressed air system. In conjunction with the membrane drying unit, the bacteria filter rules out additional contamination with microorganisms. The filters are incredibly easy to change – and only need to be changed once a year to deliver full power and perfect assistance for your treatment results.



The Dürr Dental bacteria filter is a high-performance particulate air filter with filter class ULPA U16 (according to standard EN 1822-1:2019-10) and ISO 65U (according to standard ISO 29463-1:2017).

## Sinter filter in the membrane drying unit

The sinter filter provides particle-free and clean air, providing the high-value membrane with protection against soiling and damage. Dirt and dust clog the sinter 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, reduced wear and a longer service life for the entire compressed air system.

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

1,200 internally-coated membrane hollow fibres  
After the sinter filter, moisture is removed from the compressed air by the membrane hollow fibres.

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



Cross-section of a membrane drying unit on the compressor

# Technology at a glance - Dürr Dental compressors and accessories

Model	Primo	Duo	Duo Tandem 1 unit	Duo Tandem 2 units	Trio
<b>Voltage (V)</b>	230 (1~)	400 (3~) *	400 (3~)	400 (3~)*	230 (1~)
<b>Frequency (Hz)</b>	50/60	50/60	50/60	50/60	50
<b>Cylinders</b>	1	2	2	4	3
<b>Delivery at 5 bar<sup>1)</sup> (l/min)</b>	58/66	115/130	115/130	230/260	160
<b>Tank capacity (l)</b>	20	20	50	50	50
<b>Pressure range<sup>2)</sup> (bar)</b>	6-7.8	6-7.8	6-7.8	6-7.8	6-7.8
<b>Noise level<sup>3)</sup> [dB(A)]</b>	approx. 65/66	approx. 68	approx. 68	approx. 69	approx. 69
<b>Noise level in cabinet<sup>3)</sup> [dB(A)]</b>	approx. 49/50	approx. 55	-	-	approx. 54
<b>Dimensions (H x W x D cm)</b>	69 x 49 x 47	64 x 49 x 46	76 x 75 x 52	76 x 79 x 52	76 x 74 x 52
<b>Weight (kg)</b>	45	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>Cylinders</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> Optional pressure reducer is available <sup>3)</sup> Averaged values at 5 bar and 50 Hz



Noise-reducing cabinets are also optionally available.

Pressure reducer



Bacteria filter



Fine filter



Sinter filter



Air intake filter



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

