

Tornado Compressors

Built for the long run

The
NEW
Tornado



GERMAN
DESIGN
AWARD
WINNER



GOOD
DESIGN



GOOD
DESIGN



iF



DESIGN
AWARD

COMPRESSED AIR | SUCTION | IMAGING | DENTAL CARE | HYGIENE

 **DÜRR
DENTAL**
THE BEST, BY DESIGN

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

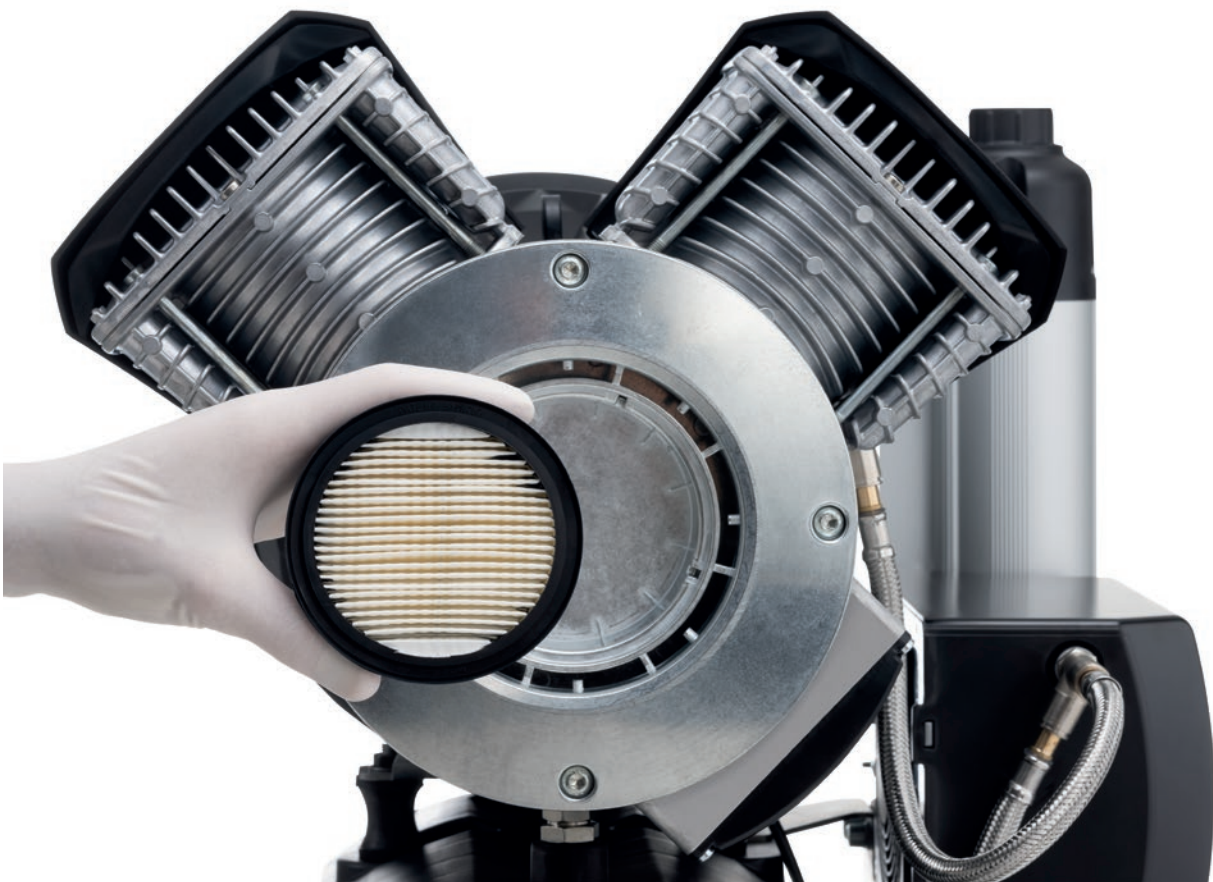


Optionally equipped with a modern membrane drying system, a stable drying performance in continuous operation is guaranteed. With low maintenance requirements, high mileage, and consistent compressed air quality, it reliably meets all the demands of a dental compressor.

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.

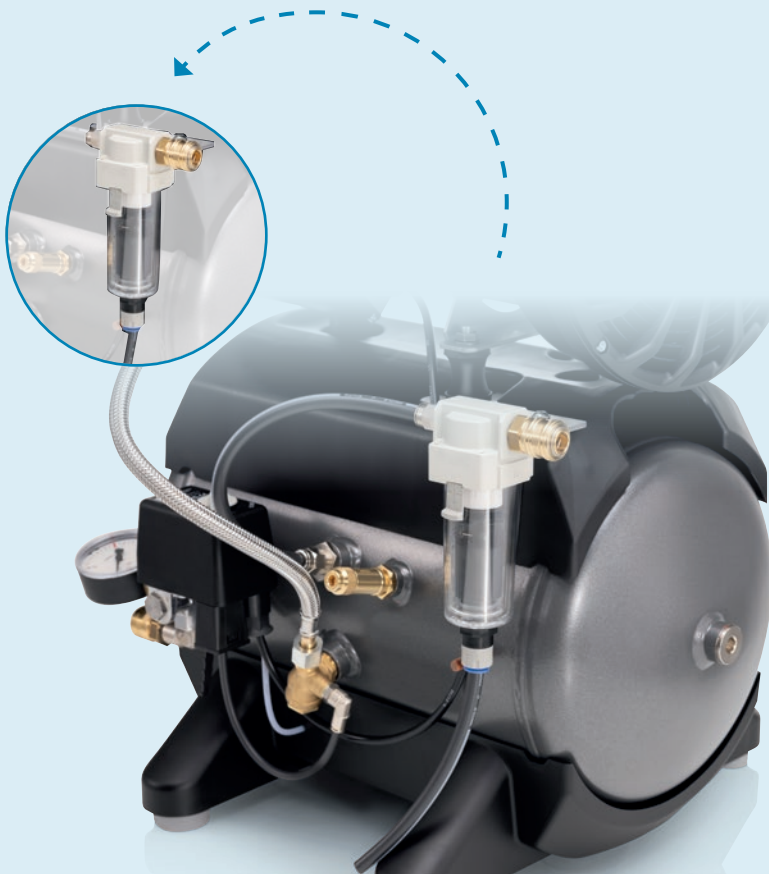


Automatic Condensate Drain

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.

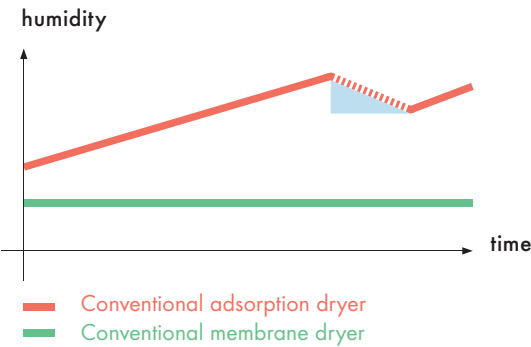
Membrane Drying Unit – Always Ready to Run!

Consistency counts

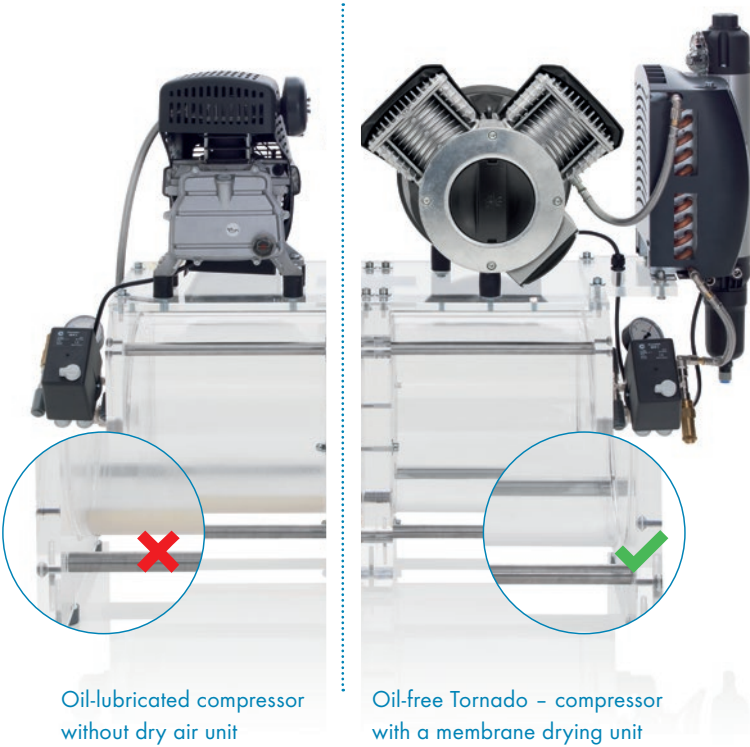
Clean air that is not contaminated by water, oil, or particles is an important hygiene factor in dental treatment. It also preserves the value of your compressor, your instruments, and your work.

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 types 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.



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 range ¹⁾ (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 cabinet ²⁾ [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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