

Premium Quality Dental Air

DÜRR TORNADO 70/130 COMPRESSORS



Dür compressors with membrane dryer



The Dür Tornado 70 with dry air is the economic entrylevel model of the Silver Airline range



Completely dry air, continuously available - with the Dür membrane dryer



First-class dental compressed air through oil-free compressors, optimised using Dür sterile filter

SILVER AIRLINE

**DÜRR
DENTAL**

Pure Performance for Every Need

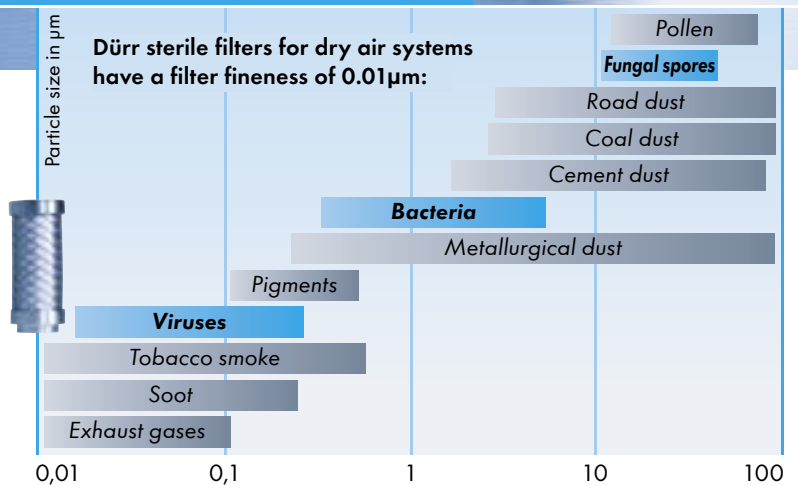
COMPREHENSIVE COMPRESSOR PROGRAMME



Dürr Tornado 70/130 compressors with membrane dryer for 100% availability

► Dürr Silver Airline

- > Dental compressors on a leading technological level
- > Compressed air in outstanding quality oil-free, dry, hygienic
- > Robust features in continuous operation, highly reliable - without regeneration periods for drying
- > All models with unified tank design, pressure switch, pressure gauge and attachment of the dry air system
- > Crank mechanism and balance weight made from a zinc/steel compound for maximum precision and quiet running



The selection of a good compressor has a great influence on practices success. Poor performance is uneconomical. Choosing the right compressor therefore requires a great deal of experience and knowledge of the performance requirements in individual cases.

When building your practice you can rely on Dürr Dental's experience gained from equipping innumerable practices, laboratories and clinics. The Tornado 70/130 comes with one or two cylinders, also with and without a dry air system.

The series of Dürr Silver Airline Tornado compressors is not afraid of comparison with the highest requirements:

- > Excellent air quality in every dental-medical respect
- > Powerful performance per cylinder. The capacity at 5 bar is 70 or 130 l/min
- > Advanced technology and high-quality components guarantee a constant pressure over its entire service life
- > Corrosion-protected tanks and units for use in regions with a high air humidity

When using a dry air system the growth of germs in the tank is ruled out. The only maintenance is an annual filter change.

Economic in Every Respect

Increasing performance requirements by dentists and dental technicians call for new designs. In the new generation Tornado 70/130 more has been achieved with fewer components. The connecting rod and piston form a compact unit, with the effect of reducing their acquisition and operation costs.

As the Tornado 70/130 operates on an intelligent simple compression principle, it achieves maximum compressed air output with a minimum of motor power. Therefore, despite its compact size, you have a high level of quality compressed air available for treatment.

Dental Quality Compressed Air

Compressed air in dentistry has to be clean, oil-free, hygienic and dry, because air which contains oil, moisture or is strongly contaminated with germs is not only harmful to the health of your patients, but also to the operation of your instruments. Oil-free air also improves the treatment results, because no oil film impairs the adhesion of composites or adhesives.

New Dürr membrane technology for effective drying

Progress begins with ideas and Dürr Dental develops ideas into simple yet intriguing solutions. With conventional dry air technology the air has to be conducted through cooling coils and hygroscopic granules. Then, in a further process, the granules themselves are dried again. With the new membrane drying system the drying process is simplified to a diffusion of



Finely filtered and hygienic compressed air that has a neutral taste should be used.

the air through many membrane layers. The air that is filtered out is let off. This new system produces highly effective results, eliminates the regeneration step and is always ready to deliver dental air when required.

The Dürr Tornado 70/130 is a safe choice, both today and in the future. The technological concept is future-orientated and the compressors operate without maintenance. The only requirement is that the intake filter and dry air fine filter have to be replaced each year.

Sterile Filter with Maximum Efficiency

A reliable alternative to fine filters are Dürr sterile filters. Used in the dry air system they rule out any additional contamination by micro-organisms. Bacteria, fungus spores and viruses have no chance under these conditions. With each filter change you can opt for permanently high air quality and a long service of your Dürr Tornado.

All characteristics in detail

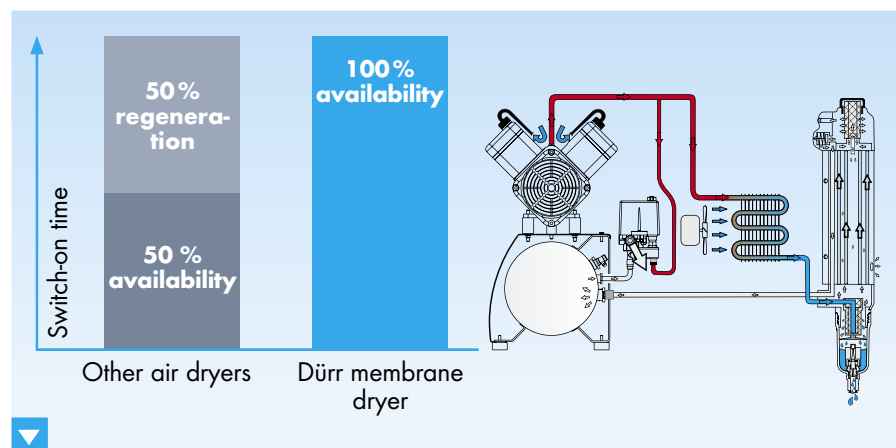
DÜRR COMPRESSED AIR SYSTEMS

Models	Tornado 70	Tornado 130	
without Dry Air System (DAS)	5170-01	5270-01	5270-02
with Dry Air System (DAS)	5172-01	5272-01	5272-02
Displacement (per aggr.)	110/120 l/min	200 l/min	240 l/min
Delivery at 5 bar without DAS	70/80 l/min ¹⁾	140 l/min	150 l/min
Delivery at 5 bar with DAS	62/72 l/min ¹⁾	125 l/min	135 l/min
Tank capacity	20 l	20 l	20 l
Pressure range ²⁾	6 - 7.8 bar ¹⁾	6 - 7.8 bar	6 - 7.8 bar
Cylinders	1	2	2
Noise level (without DAS) ³⁾	approx. 67/70 dB(A) ¹⁾	approx. 70 (70) dB(A)	approx. 72 (74) dB(A)
Noise level in the cabinet ³⁾	approx. 55/58 dB(A) ¹⁾	approx. 57 dB(A)	approx. 60 dB(A)
Voltage	230 V 1~; 50/60 Hz	230 V 1~; 50 Hz	230 V 1~; 60 Hz
Power consumption at 7 bar	4.9/4.3 A ¹⁾	6.7 A	7.9 A
Nominal power	0.92/0.97 kW ¹⁾	1.42 kW	1.7 kW
Horse power	1.23/1.30 hp ¹⁾	1.90 hp	2.28 hp
Dimensions without DAS (H x W x D)	64 x 49 x 44 cm	64 x 49 x 44 cm	64 x 49 x 44 cm
Dimensions with DAS (H x W x D)	64 x 49 x 46 cm	70 x 49 x 46 cm	70 x 49 x 46 cm
Weight without DAS (with DAS)	36 (41) kg	47 (52) kg	47 (52) kg

¹⁾Power ranges result from the supply frequency 50/60 Hz ²⁾A pressure reducer is available as an option ³⁾Mean values at 5 bar

Dürr membrane dryer

- > New innovative technology without regeneration times and with continuous availability
- > Maximum air dryness
- > Low pressure dew point at $\leq 5^\circ\text{C}$ (at 40°C ambient temperature) prevents condensation in the connections
- > Water separation level 3 x higher, i.e. better drying performance as compared to conventional adsorption dryers
- > Maintenance-free – the filter needs changing only once a year



Availability of compressors with dryers

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