



Sauer Compressors

Sauer Tornado – genial vertikal

Dependable Compressors:



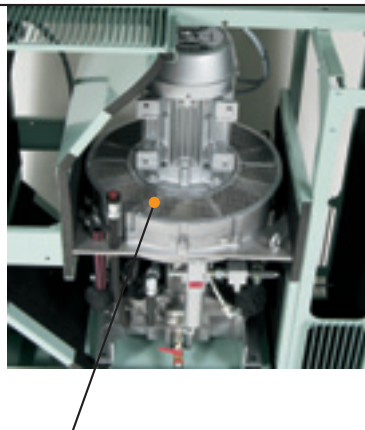
Contents

- Technology from WP 5000
- Special designs for special solutions
- Technical Data

www.sauercompressors.de

125
1844-2009
Sauer
125 Years of Power

Sauer Tornado



■ Sauer Tornado – genial vertikal

With the WP 4325 and WP 3215 compressor types, the existing Sauer line of air-cooled high-pressure compressors has been enlarged.

The Tornado series consists of the three-stage WP3215 and the four-stage WP 4325. Each of these is available in the “Basic-Version” – a compressor with motor and an optional separate control unit – and in the “ComSilent-Version” – a complete, ready-to-operate system with soundproof canopy.

High performance axial-flow fan integrated with coolers in a flow optimized housing

Technology from WP 5000

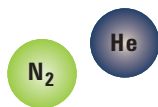
The vertical arrangement of the running gear and the star-arrangement of the cylinders are particularly noteworthy features of the completely newly designed series. The design principle has been adopted from the water-cooled WP 5000 Navy compressor that is used in submarines, frigates and aircraft carriers. It is distinguished by the very small amount of space required, and for the extremely low values for vibration and sound due to an almost perfect balancing of the free inertial forces.

Optimal results for the air-borne sound and recooling temperature of the compressed air are obtained by virtue of the arrangement of the high-performance axial-flow fan, together with the re cooler and after-cooler, in flow-optimised housing. This design was specially developed for the Tornado series.

The low outlet temperature of 5°C above ambient, as well as a maximum 3 mg/m³ residual oil content, considerably reduce the expenditure required for downstream filtration and/or increase its service life.

The direct drive, pressure-lubrication and slide bearing of the crankshaft, together with the beneficial design and robustness adopted from the practice-proven WP 4331 to WP 4351 Sauer high-pressure compressors, ensure exceptionally reliable and low-maintenance operation with maintenance intervals that are far longer than those of the competition.

Special designs for special solutions



The “ComSilent-Version” has everything presently required of a modern compressor station. Fully automatic electronic control, noise insulation down to 72 dB (A) at a distance of 1 m, integrated filter, demistor and condensate collector tank. The width of less than 800 mm width allows it to be conveniently brought through any door, the maintenance points are easily accessible through a side maintenance hatch or a front side designed as a door.

Compressors of the Tornado series can naturally also be supplied fitted out for special applications, for example as a gas-tight version for compressing helium, or for use in explosion-protected zones in compliance with ATEX regulations.

All maintenance points are easy to access



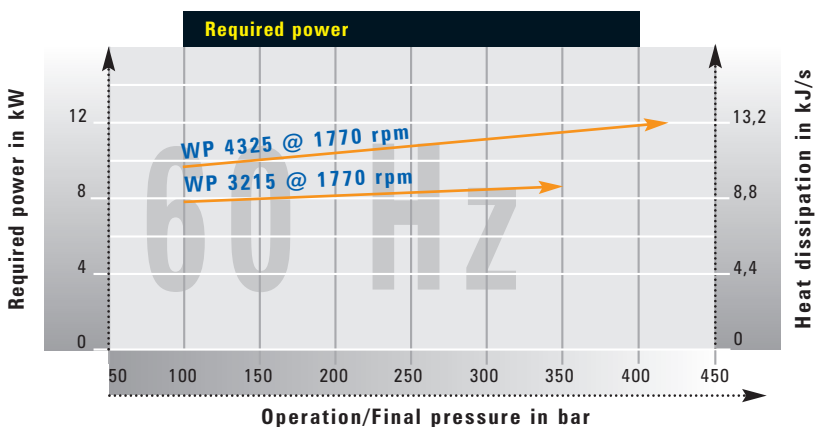
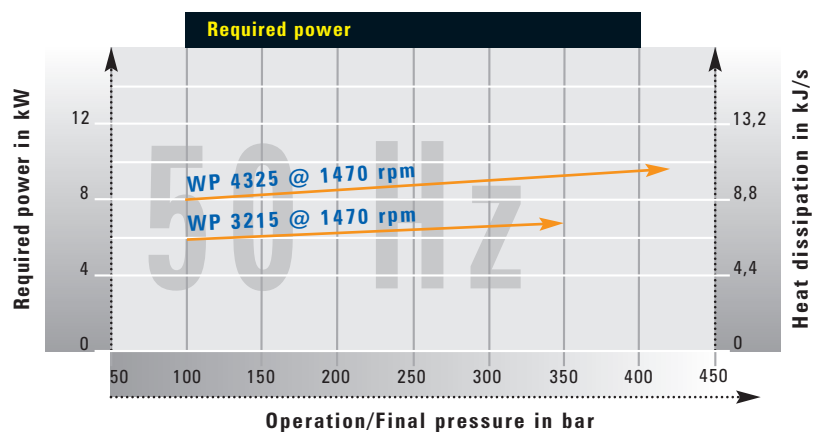
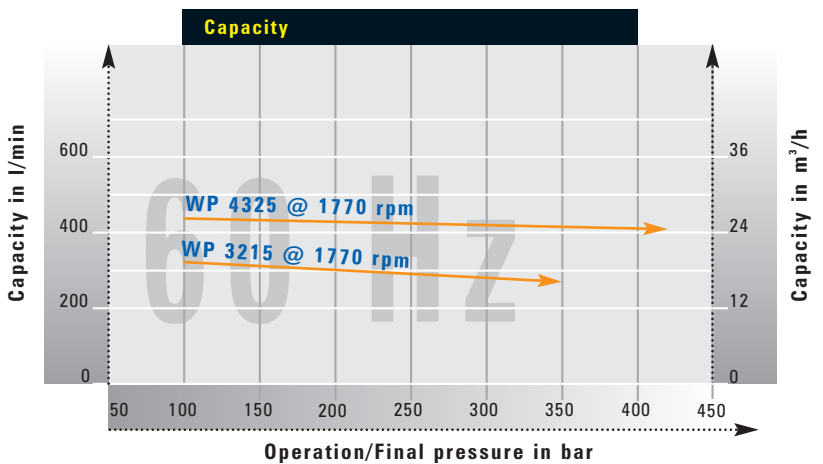
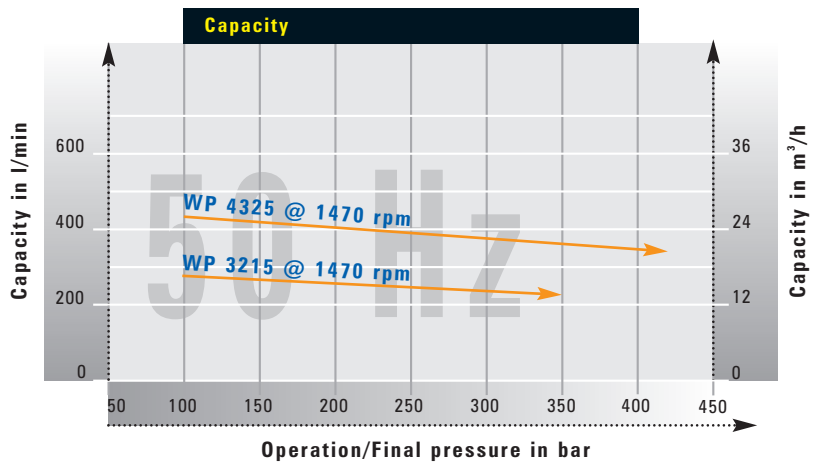
genial vertikal

420 bar

Technical Data

Standard Equipment	
	WP 3215 WP 4325
High performance axial flow fan	✓
Inter- and after-cooler	✓
Safety valve for each stage	✓
Final pressure indication	✓
Oil dipstick/Oil sight glass	✓
Oil pressure lubrication	✓
Oil pressure monitor	✓
Temperature monitor	✓
Attached oil- and water separator after the final stage	✓
Interstage separator	✓
Starting relief integrated with in condensate auto-drain system (unloaded start)	✓
Resilient mounts inc. all necessary hoses for final air pressure outlet and compressor drainage	✓
Non-return valve	✓
Direct driven via flexible coupling	✓
Three-phase electric motor	✓

On request available/optional	
	WP 3215 WP 4325
PLC based control and monitoring unit	✓
Sound-proof canopy	✓
Pressure maintaining valve	✓
Dryer (Adsorption/ Refrigeration dryer)	✓
Final air quality	✓
Reducing valves and reducing stations	✓
Design in accordance with ATEX regulations	✓
Stage- and final pressure gauge	✓



Special Booster Version available:
Tornado ComBooster

Special Version with integrated
Desiccant Dryer available:
Tornado ComDry

Sauer Tornado

ComSilent:
Optimized cooling air flow;
filters arranged in cold air stream

Fully automatic
electrical
control and
supervision

Front door: Easy Access
to control unit, condensate
collecting tank and filter
accessories

Integrated condensate demister
and -collecting tank (20 litres)



Side covers easy
to remove



Tornado	WP 3215		WP 4325	
Performance acc. to DIN/ISO 1945	230 L/min	280 L/min	340 L/min	400 L/min
Pressure, max.	350 bar	350 bar	420 bar	420 bar
Power	6,8 kW	8,7 kW	9,8 kW	12,3 kW
Voltage	400 V / 50 Hz	440 V / 60 Hz	400 V / 50 Hz	440 V / 60 Hz
Speed	1470 rpm	1770 rpm	1470 rpm	1770 rpm
Airborne noise	< 81 dB(A)	< 83 dB(A)	< 81 dB(A)	< 83 dB(A)

Final Air Temperature < 5 °C above ambient conditions.

■ **Further Information**

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