



Sauer Compressors

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Helium
4.003

HELIUM COMPRESSORS

Dependable up to 500 bar – anywhere, anytime, anygas.



//// Passat series

Ideal for helium circuits and cooling

Passat WP 156L BasSeal^{He-B}

Gas Inlet Pressure: 0,07 bar.g
Gas Outlet Pressure: 40 bar.g

Flow Rate: up to 128 m³/h
Rated Power: 20–35 kW

Passat WP 276L BasSeal^{He-B}

Gas Inlet Pressure: 0,07 bar.g
Gas Outlet Pressure: 40 bar.g

Flow Rate: up to 235 m³/h
Rated Power: 37–52 kW

Passat WP 316L BasSeal^{He-B}

Gas Inlet Pressure: 0,07 bar.g
Gas Outlet Pressure: 40 bar.g

Flow Rate: up to 295 m³/h
Rated Power: 45–85 kW



//// Tornado series

Ideal for small helium recovery systems

Tornado WP 4325 BasSeal^{He-B}

Gas Inlet Pressure: 0,05 bar.g
Gas Outlet Pressure: 230 bar.g

Flow Rate: up to 21 m³/h
Rated Power: 7,5–13 kW



//// Hurricane series

Ideal for all kinds of helium recovery systems and cylinder filling

Hurricane WP 4331 BasSeal^{He-B}

Gas Inlet Pressure: 0,05 bar.g
Gas Outlet Pressure: 230 bar.g

Flow Rate: up to 35 m³/h
Rated Power: 11–18 kW

Hurricane WP 4341 BasSeal^{He-B}

Gas Inlet Pressure: 0,05 bar.g
Gas Outlet Pressure: 230 bar.g

Flow Rate: up to 57 m³/h
Rated Power: 15–26 kW

Hurricane WP 4351 BasSeal^{He-B}

Gas Inlet Pressure: 0,05 bar.g
Gas Outlet Pressure: 200 bar.g

Flow Rate: up to 114 m³/h
Rated Power: 30–52 kW



//// 6000 series

Ideal for big helium recovery systems and cylinder filling

6000 series WP 6550 BasSeal^{He-B}

Gas Inlet Pressure: 0,05 bar.g
Gas Outlet Pressure: 350 bar.g

Flow Rate: 270 m³/h
Rated Power: 200 kW

Sauer Helium Compressors

For more than 50 years Sauer Compressors specialises in the development and production of gas-tight helium compressors. Our comprehensive experience is incorporated in every product and new development – for the benefit of the customer.

Sauer Helium Compressors are specially designed for helium compression and represent the most efficient and safe solution for all kinds of applications. So it is no surprise that leading research institutes and universities only trust in Sauer Helium Compressors.

Gas companies profit from the unique advantages of Sauer Helium Compressors and the support of the worldwide sales and service network of the Sauer Compressors Group.

Unique Sauer Advantages

Gas-tightness

Sauer Helium Compressors reach a leakage rate of less than 0,1 mbar x l/s.

- ✓ Gas-tight crank case with double lip seal at the crankshaft
- ✓ Special, helium suitable sealings and gaskets
- ✓ Gas-tight hoses
- ✓ Intake buffer tank and condensate collecting vessel
- ✓ Gas-tight oil lock to the crank case
- ✓ Vacuum flanges acc. to ISO 2861 at gas inlet
- ✓ Encapsulated safety valves
- ✓ Gas recirculation back to the suction side by a common piping



Reliability

Sauer Helium Compressors are designed for continuous operation.

- ✓ Valves with modified stroke and spring suspension
- ✓ Helium optimized lubrication
- ✓ Efficient cooling, especially around the highly stressed valves

Test procedure

Sauer Helium Compressors are tested under operation conditions on a special helium test bench.

- ✓ 16 hours running & performance test at final pressure with helium
- ✓ Tightness check and measurement of the leakage rate with helium
- ✓ 3.1 Inspection Certificate of Performance Data & Leakage Rate
- ✓ Delivered filled with helium to avoid purge losses

For detailed consultancy please contact our helium experts via sales@sauercompressors.de.

Your local partner:

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