



Sauer Compressors

SAUER

²
He
Helium
4.003

HELIUM COMPRESSORS

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



Passat

Ideal for helium circuits and cooling

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
Passat WP 156L BasSeal ^{He}	0.07	40	up to 128	20–35
Passat WP 276L BasSeal ^{He}	0.07	40	up to 235	37–52
Passat WP 316L BasSeal ^{He}	0.07	40	up to 295	45–85



Tornado

Ideal for small helium recovery systems

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
Tornado WP 4325 BasSeal ^{He}	0.05	230	up to 21	7.5 – 13



Hurricane

Ideal for all kinds of helium recovery systems and cylinder filling

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
Hurricane WP 4331 BasSeal ^{He}	0.05	230	up to 35	11–18
Hurricane WP 4341 BasSeal ^{He}	0.05	230	up to 57	15–26
Hurricane WP 4351 BasSeal ^{He}	0.05	200	up to 114	30–52



Hermetically
gas-tight

Wear-free
magnetic
coupling drive

Orkan

Ideal for all kinds of helium recovery systems and cylinder filling

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
Orkan BasSeal ^{He}	0.05	350	max. 200	max. 110



6000 series

Ideal for big helium recovery systems and cylinder filling

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
6000 series WP 6550 BasSeal ^{He}	0.05	350	270	200

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.

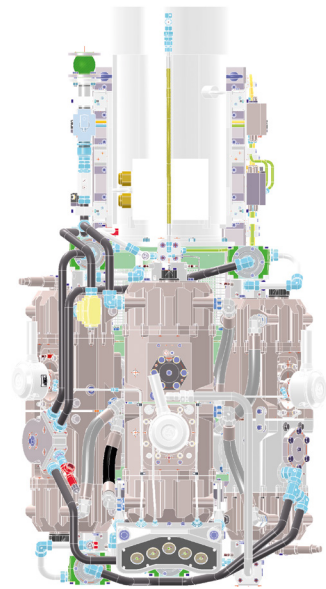
Gas companies profit from the unique advantages of SAUER helium compressors and the support of the worldwide sales and service network of the Sauer Compressors Group.

Unique Sauer advantages

Gas-tightness

SAUER helium compressors are designed to be (hermetically) gas-tight to prevent the valuable but very low density helium from escaping.

- ✓ Gas-tight crank case
- ✓ Either double lip seal at the crankshaft or magnetic coupling drive for hermetic gas-tightness
- ✓ 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



Sauer Compressors



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www.sauercompressors.com

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