



Sauer Compressors

SAUER

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He
Helium
4.003

HELIUM COMPRESSORS

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



//// Passat

Ideal for helium circuits and cooling

Passat WP 156L BasSeal^{He}

Gas Inlet Pressure: 0.07 barg

Gas Outlet Pressure: 40 barg

Flow Rate: up to 128 m³/h

Rated Power: 20–35 kW

Passat WP 276L BasSeal^{He}

Gas Inlet Pressure: 0.07 barg

Gas Outlet Pressure: 40 barg

Flow Rate: up to 235 m³/h

Rated Power: 37–52 kW

Passat WP 316L BasSeal^{He}

Gas Inlet Pressure: 0.07 barg

Gas Outlet Pressure: 40 barg

Flow Rate: up to 295 m³/h

Rated Power: 45–85 kW



//// Tornado

Ideal for small helium recovery systems

Tornado WP 4325 BasSeal^{He}

Gas Inlet Pressure: 0.05 barg

Gas Outlet Pressure: 230 barg

Flow Rate: up to 21 m³/h

Rated Power: 7.5–13 kW



//// Hurricane

Ideal for all kinds of helium recovery systems and cylinder filling

Hurricane WP 4331 BasSeal^{He}

Gas Inlet Pressure: 0.05 barg

Gas Outlet Pressure: 230 barg

Flow Rate: up to 35 m³/h

Rated Power: 11–18 kW

Hurricane WP 4341 BasSeal^{He}

Gas Inlet Pressure: 0.05 barg

Gas Outlet Pressure: 230 barg

Flow Rate: up to 57 m³/h

Rated Power: 15–26 kW

Hurricane WP 4351 BasSeal^{He}

Gas Inlet Pressure: 0.05 barg

Gas Outlet Pressure: 200 barg

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}

Gas Inlet Pressure: 0.05 barg

Gas Outlet Pressure: 350 barg

Flow Rate: 270 m³/h

Rated Power: 200 kW

SAUER

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.



Sauer Compressors



Find your local partner at our global website
www.sauercompressors.com

J. P. Sauer & Sohn Maschinenbau GmbH
Brauner Berg 15
24159 Kiel
Germany
www.sauercompressors.com

HAUG Sauer Kompressoren AG
Industriestrasse 6
9015 St. Gallen
Switzerland
www.haug.ch

Girodin-Sauer SAS
16 Chemin du Bas des Indes
95240 Corneilles en Parisis
France
www.girodin-sauer.com

Sauer Compressors UK Ltd.
Sauer House
Lanswood Park, Broomfield Road
Elmstead Market, Colchester
Essex CO7 7FD
United Kingdom
www.sauercompressors.com

Sauer Compressori S.r.l.u.
Via Santa Vecchia 79
23868 Valmadrera
Italy
www.sauercompressors.com

Sauer Compressors CIS
Bld. 2, office 304
Naryshkinskaya Lane 5
125167 Moscow
Russian Federation
www.sauercompressors.com

Sauer Compressors USA Inc.
245 Log Canoe Circle
Stevensville, MD 21666
USA
www.sauerusa.com

Sauer Compressors Mexico
Alianza Sur 303
66628 Apodaca, N.L.
Mexico
www.sauercompressors.mx

Sauer do Brasil LTDA
Rua Montevidéu 327, Penha
Rio de Janeiro 21020 – 290
Brasil
www.sauerbrasil.com.br

ELGI Sauer Compressors Ltd
Elgi Industrial Complex-III
Trichy Rd, Singanallur
Coimbatore, Tamil Nadu 641005
India
www.elgisauer.com

Sauer Compressors China Ltd.
China Merchants Shanghai Center 4th Floor
68 BoHang Road
Shanghai 200120
China
www.sauercompressors.com

Sauer Compressors Singapore
421 Tagore Industrial Avenue
#01 – 15/16, Tagore 8
787805
Singapore
www.sauercompressors.com