



Sauer Compressors

SAUER

HAUG

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Hydrogen
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HYDROGEN COMPRESSORS

HAUG hydrogen compressors

In 1989, HAUG hydrogen compressors were used for the first time in a solar energy demonstration project in Germany. Over the past 35 years, the machines have been continuously improved and have set new standards in the industry. As the compressors are completely dry-running and oil-free, there is no danger of oil-vapour contamination of hydrogen and the equipment downstream. Due to the unique combination of high-pressure cylinders with HAUG NanoLoc design, the HAUG Sirius series can reach final pressures up to 450 barg. The compressors are particularly compact and can be operated very efficiently thanks to a variable inlet pressure.



- ✓ Oil-free and dry-running design
- ✓ Hermetically gas-tight
- ✓ HAUG NanoLoc high-pressure stages
- ✓ Inlet pressures of up to 30 barg
- ✓ Suitable for final pressures up to 450 barg and max. volume flow rate of up to 100 m³/h
- ✓ Ex-proof versions acc. to ISO 80079-34:2020 and the European ATEX directive 2014/34/EU



//// Sirius

- Modular 2 – 4 cylinder design
- Up to 4-stage compression
- Hermetically gas-tight magnetic coupling drive
- Air or water cooling possible

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
HAUG Sirius	max. 30	10 – 100	100 – 400	7.5 – 30
HAUG Sirius NanoLoc	max. 30	100 – 450	10 – 100	11 – 30

Conversion of volume flow into kg/h: $1 \text{ m}^3/\text{h} (20^\circ\text{C}, 1,013 \text{ hPa}) = 0.083 \text{ kg/h}$



//// Mercure

- 2 cylinder design
- Up to 2-stage compression
- Air cooling
- Hermetically gas-tight with encapsulated electric motor



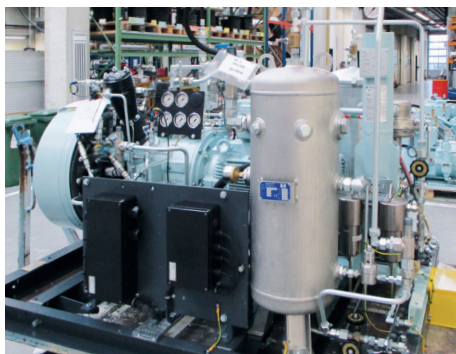
//// Neptune

- Modular 2–3 cylinder design
- Up to 3-stage compression
- Air cooling
- Hermetically gas-tight magnetic coupling drive

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
HAUG Mercure	max. 15	10 – 100	5 – 70	3.0 – 5.5
HAUG Neptune	max. 13	10 – 100	5 – 100	2.0 – 7.5

Conversion of volume flow into kg/h: $1 \text{ m}^3/\text{h} (20^\circ\text{C}, 1,013 \text{ hPa}) = 0.083 \text{ kg/h}$

SAUER compressors stand for oil-lubricated heavy-duty machines that are an efficient and economical solution for all kinds of industrial hydrogen applications.



- ✓ Special gas-tight design
- ✓ Proven in the most demanding conditions in industry and offshore applications
- ✓ Inlet pressures of up to 20 barg
- ✓ Suitable for final pressures up to 350 barg and a max. volume flow rate of up to 1,000 m³/h
- ✓ Ex-proof versions acc. to ISO 80079-34:2020 and the European ATEX directive 2014/34/EU



SAUER *//// Hurricane*

The 4-stage, air-cooled high-pressure compressors of the SAUER Hurricane series are the top choice for demanding applications.

- 4-stage compression
- Direct drive
- High-efficiency air cooling

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
SAUER Hurricane WP 4331 BasSeal ^{H2}	0.05	350	up to 26	15
SAUER Hurricane WP 4341 BasSeal ^{H2}	0.05–0.2	350	up to 36	22
SAUER Hurricane WP 4351 BasSeal ^{H2}	0.05–0.2	300	up to 76	38

Conversion of volume flow into kg/h: $1 \text{ m}^3/\text{h} (20^\circ\text{C}, 1,013 \text{ hPa}) = 0.083 \text{ kg/h}$



SAUER *//// 6000 series*

The water-cooled compressors of the SAUER 6000 series have a modular design with up to six cylinders, which allows many different variations. As the largest piston compressors of their kind, they allow maximum performance even in the most difficult conditions.

- Modular 4 or 6 cylinder design
- Up to 5-stage compression
- Hermetically gas-tight magnetic coupling drive
- Water-cooling system with individual cylinder/inter-stage cooling

Type	Gas Inlet Pressure barg	Gas Outlet Pressure barg	Flow Rate m³/h	Rated Power kW
SAUER 6000 series BasSeal ^{H2}	0.05–20	350	up to 1,000	132–230

Conversion of volume flow into kg/h: $1 \text{ m}^3/\text{h} (20^\circ\text{C}, 1,013 \text{ hPa}) = 0.083 \text{ kg/h}$



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