



Sauer Compressors



Oil-free piston compressor

- 11–30 kW
- Suction pressure max. 31 bar(abs)
- Final pressure max. 451 bar(abs)
- NanoLoc® design
- Gas-tight with magnetic coupling
- Zero emission design

HAUG.Sirius NanoLoc



OIL FREE



ZERO LEAKAGE



HIGH EFFICIENCY

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



Sauer Compressors

The HAUG Sauer Kompressoren AG based in St. Gallen, Switzerland, is within the Sauer Compressors Group the competence center for oil-free and gas-tight piston compressors. These are developed and manufactured in St. Gallen for worldwide use.



Find your contact for sales and services below
www.sauercompressors.com

For further information about our products and applications please visit our website www.haug.ch



We reserve the right to make technical changes at any time without prior notice.

HAUG.Sirius NanoLoc oil-free and gas-tight high pressure piston compressor

Unique combination of high-pressure cylinders with NanoLoc® design can reach a discharge pressure up to 451 bar(abs). At the same time the hermetically sealed and entirely wear-free drive with magnetic coupling ensures compression of various gases without leaks. This system ensures no gas losses to atmosphere and no compressed gas pollution from outside.

HAUG oil-free and gas-tight compressors are environmental friendly because there is no oil disposal and gas leakage which can contaminate the environment.

NanoLoc® Design

- Especially suitable for high pressures >101 bar(abs) because sealing without piston rings
- No friction losses in the cylinders due to friction-free sealing
- No wear at cylinders and very low wear of piston, thus significantly longer service life than with piston and packing rings
- Lower overall height and very compact and simple design with only a few parts
- Service-friendly, components are easy to replace
- No water cooling required
- Lower power consumption, since pistons move without friction in the cylinder

Features

- Completely oil-free and dry-running piston compressor
- Permanently technically tight with magnetic coupling
- Environmentally friendly because it is oil-free, gas-tight and efficient
- Hermetically gas-tight compressor (leak rate <0.001 mbar l/s)
- Air-cooled or water-cooled versions
- Motor power from 11 up to 30 kW
- Rotary speed range 970 up to 1450 rpm
- Suction pressure max. 31 bar(abs)
- Final discharge pressure max. 451 bar(abs)
- Modular cylinder configurations
- 4-stage compression
- Flow rate max. approx. 60 Nm³/h
- Explosion-proof compressor version (conform with ATEX zone 1 or zone 2)
- Very robust and long-last construction
- Compact and foundation-free installation

Applications

- Bottling of industrial gases like air, nitrogen, noble gases, hydrogen
- Storage of wind and solar energy (power to gas)
- Synthesis process gas compression for renewable energy storage
- Emergency gas storage at on-site gas generation systems
- Hydropower stations
- Hydrogen fuel stations
- Hydrogen storage at electrolysis plants
- Steel industry process gas
- Research and development applications ... and many more