



# Sauer Compressors



## Oil-free piston compressor

- 11–30 kW
- Suction pressure atmospheric
- Final pressure max. 60 barg
- Max. 160 Nm<sup>3</sup>/h
- Air- and water-cooled

*HAUG.Orion*



OIL FREE

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



## ■ HAUG.Orion

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### Oil-free compressors

HAUG.Orion compressors work completely dry. There is no cylinder lubrication and no oil bath for the crankshaft. Contamination of the compressed air by lubricating oils is thereby excluded.

Only a totally oil-free compressing system provides constant oil-free compressed air quality over the service life; oil aerosols and oil vapours cannot pollute the system and the process.

The HAUG.Orion series is based on the HAUG.Sirius series, which has been successfully launched on the market for around 50 years. The HAUG.Orion is designed as a compact version with sound box and integrated processor control.

The completely oil-free HAUG.Orion compressors can be used very universally and are available in air and water cooling versions. They are suitable for continuous operation, for intermittent operation and for emergency operation with long standstills. The dry-running compressors are very reliable and allow economical operation without any idle running.

#### Applications

Many users need absolutely oil-free compressed air. Applications include:

- Medical compressed air
- Chemical industry
- Pneumatic control
- Pharmaceutical industry
- Electronics industry
- Clean rooms
- Food industry
- Beverage processing industry
- Water supply



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## Proven technology

### Cooling group

Intercooler, for cooling the compressed air after the 1<sup>st</sup> stage.  
Aftercooler, for cooling the compressed air before discharging via the check valve. Air-cooled version with an aluminum block cooler. Water-cooled version with stainless steel tube heat exchanger.

### Process control / control elements

Control elements are: main switch, emergency stop button, manometer for operating pressure display, operating status and maintenance indication via the control panel. The internal temperature as well as the intermediate and final pressure are monitored. An RS 485 interface provides the possibility to control the compressor remotely. Several compressors can be connected in parallel via a data cable and are controlled by integrated base load change control in a demand-load-oriented manner. There are further additional freely assignable inputs and outputs for monitoring further devices, for example compressed air dryer.

### Piping and fittings

A stainless steel and brass piping, connects the compressor stages with coolers, cyclone condensate separators and condensate traps. Each stage is equipped with a relief valve for the unloading start. Flexible steel jacket PTFE hoses connect the compressor vibration-free with the housing.

### Compressor block

The compressor block is available with 2, 3 or 4 cylinders. The cooling is realized either with ambient air or with cooling water.

### Drive

The HAUG.Orion is driven by electric motors via a belt drive. The flow rate of the compressor can be adjusted by changing the belt pulleys to the requirements. The speed varies between 920 and 1470 rpm.



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](http://www.sauercompressors.com)

For further information about our products and applications please visit our website [www.haug.ch](http://www.haug.ch)

## Type overview and technical data

HAUG.Orion						
Compressor type	Article number	Flow rate in Nm <sup>3</sup> /h <sup>1</sup>	Motor power in kW	Max. pressure in barg	Motor speed (1/min)	Weight in kg
<b>Air-cooled:</b>						
HAUG.Orion 22L 180-90 LR-L	53.9360.10	50	11	12	920	690
HAUG.Orion 22L 180-90 LR-L	53.9361.10	64	11	12	1170	690
HAUG.Orion 22L 180-90 LR-L	53.9362.10	80	15	12	1470	690
HAUG.Orion 42L 180-90 LR-L	53.9416.00	100	18.5	12	920	980
HAUG.Orion 42L 180-90 LR-L	53.9370.10	127	22	12	1170	980
HAUG.Orion 42L 180-90 LR-L	53.9368.11	160	30	12	1470	980
<b>Water-cooled:</b>						
HAUG.Orion 22L 180-90 WR-W	53.9420.00	50	11	12	920	690
HAUG.Orion 22L 180-90 WR-W	53.9421.00	64	11	12	1170	690
HAUG.Orion 22L 180-90 WR-W	53.9422.00	80	15	12	1470	690
HAUG.Orion 42L 180-90 WR-W	53.9393.10	100	18.5	12	920	980
HAUG.Orion 42L 180-90 WR-W	53.9403.10	127	22	12	1170	980
HAUG.Orion 42L 180-90 WR-W	53.9404.11	160	30	12	1470	980
<b>Option for base load transfer control:</b>						
Programming and clearing of base load transfer control in our workshop, without data cable						
Base load transfer control	53.9999.01					
<b>Option for air-cooled compressors, electric auxiliary fan built-in at the cooling air outlet:</b>						
Recommended at high ambient temperatures or at a connection of the compressor to a passive ventilation system or during frequent start / stop operation						
HAUG.Orion External ventilator conversion kit	53.8529.00					

<sup>1</sup> free air delivery measured at operating pressure (Norm-m<sup>3</sup> at 1013 mbar and 20 °C)



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