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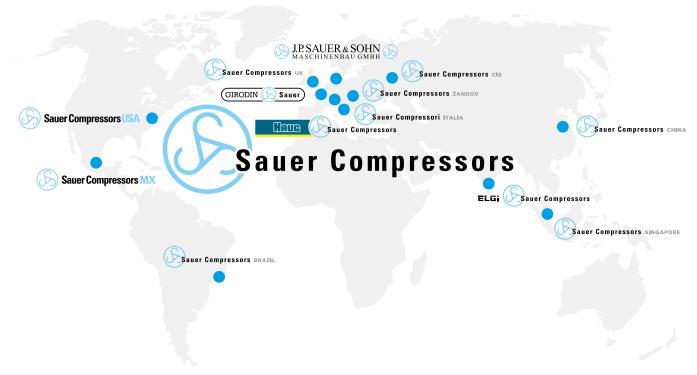


oil-lubricated up to 500 barg



oil-free and hermetically gas-tight up to 450 barg

## Dependable up to 500 bar - anywhere, anytime, anygas.



For your local contact please visit our website www.sauercompressors.com

## Dependable up to 500 bar - anywhere, anytime, anygas.

### Comprehensive industry expertise

With over 80 years of experience in compressed air technology, we know the challenges our customers are facing all over the world. As a global company we keep local requirements in mind: Our companies and partners around the globe know the particular demands in each area and provide exactly the right solutions and services to meet them. Our support knows neither business hours nor time zones - we are available whenever we are needed.

### Sauer - High-pressure know-how made in Germany

Our headquarters J.P. Sauer & Sohn in Kiel, Germany, serves as the centre of excellence for our renowned SAUERrange of piston compressors. The oil-lubricated machines are available for pressures up to 500 barg and designed for continuous operation. The reciprocating models allow compression in up to five stages. A total of up to six cylinders are mounted in a star, V or W arrangement. The compressors are the ideal solution for operation at atmospheric suction pressure or to be used as gas-tight boosters with pre-pressures up to 25 barg.

### HAUG - world's leading brand for oil-free piston compressors

compressors are the first choice when it comes to demanding applications that require maximum process purity and safety. The dry-running machines are entirely oil-free to prevent contamination and to provide hermetic gas-tightness. The modular and customisable design helps to achieve pressures from 1 to 450 barg. High-tech innovations, such as a non-contact magnetic coupling (up to 110 kW) and the high-pressure piston design NanoLoc®, add to the compressors' outstanding performance.



## Dependable up to 500 bar - anywhere, anytime, anygas.

### Our "anygas"-commitment

You name the gas - we provide the solution! Through the comprehensive know-how of renowned brands like SAUER and the requirements of virtually any gas. Even if a particular medium is not listed in the overview, customers are welcome to contact us – if there is no "off-the-shelf"-product to suit their needs, we provide individual custom solutions.

		Ti de la constant de				SAU	ER						
series gas	HAUG.Pluto	HAUG.Mercure	HAUG.Neptune	HAUG.Sirius	HAUG.Titan	Mistral	///// Passat	////Breeze	///// Турћооп	///// Tornado	/////Hurricane	IIII5000 series	////6000 series
Air	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CDA (clean dry air)	✓	✓	✓	✓	✓	-	_	_	_	-	-	_	-
Nitrogen N <sub>2</sub>	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓
Oxygen O <sub>2</sub>	✓	✓	✓	✓	_	-	-	_	-	-	-	-	_
Helium He	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓
Argon Ar	✓	✓	✓	✓	✓	✓	✓	_	✓	✓	✓	✓	✓
Hydrogen H₂	-	-	✓	✓	✓	-	-	-	-	✓	✓	-	✓
Sythesis Gases	-	-	✓	✓	✓	-	-	_	-	-	-	-	-
Natural Gas CH₄	_	-	✓	✓	✓	-	✓	-	-	✓	✓	-	✓
SF <sub>6</sub>	✓	✓	✓	✓	✓	-	_	_	_	-	-	_	-
Refrigerant gases	✓	✓	✓	✓	✓	-	-	-	-	_	_	-	-
Carbon Monoxide CO	-	-	✓	✓	✓	-	_	_	-	-	-	_	-
Carbon Dioxide CO <sub>2</sub>	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-
Gas mixtures	✓	✓	✓	✓	✓	-	_	_	_	_	_	_	-

## **Products** - Performance Overview

Our compressors are as diverse as our customers' requirements. We provide high-quality compressed air and gas solutions in various capacities and pressure ranges to meet the particular demands of a great number of industries and applications.



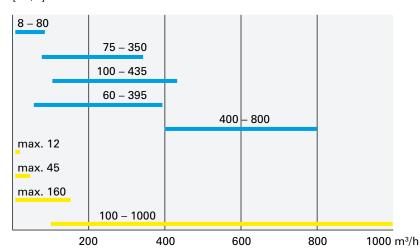


## Air Compressor Range

#### **Low and Medium Pressure**

	Final Pressure [barg]	Max. Power [kW]
Mistral	10 - 40	3 – 18.5
Passat	10 - 80	15 - 55.0
Breeze	10 - 40	37 - 90.0
Typhoon	10 – 100	15 - 90.0
/////6000 series	10 – 100	90 - 250.0
HAUG.Cygnus	5 - 30	0.37 – 2.2
HAUG.Taurus	5 - 60	4 - 11.0
HAUG.Orion	5 - 60	11 - 30.0
HAUG. Sirius	10 – 100	7.5 – 30.0

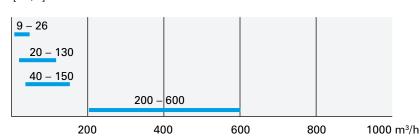
# Volume Flow Range [m³/h]



### **High and Highest Pressure**

	Final Pressure [barg]	Max. Power [kW]
<b>     </b> Tornado	150 – 400	5.5 – 15.0
/////Hurricane	150 – 400	11 – 55.0
5000 series	150 – 350	20 - 75.0
////6000 series	100 – 500	90 - 250.0

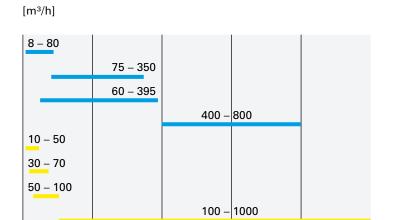
# Volume Flow Range [m³/h]



## Air and Nitrogen Booster Range

### **Low and Medium Pressure**

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
/////Mistral	4 – 10	10 - 40	3 – 18.5
/////Passat	4 – 10	10 – 80	15 – 55.0
/////Typhoon	4 - 10	10 – 100	15 – 90.0
////6000 series	4 – 16	10 – 100	90 – 250.0
HAUG.Pluto	max. 20	10 – 60	0.55 – 2.2
HAUG.Mercure	max. 15	10 – 100	3 – 4.0
HAUG.Neptune	max. 13	10 – 100	2.2 – 7.5
HAUG.Sirius	max. 30	10 – 100	7.5 – 30.0



600

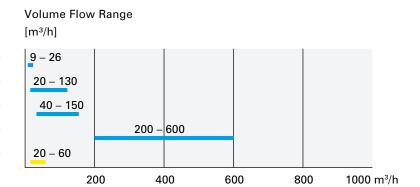
800

1000 m<sup>3</sup>/h

400

### **High and Highest Pressure**

1	nlet Pressure	Final Pressure	Max. Power
	[barg]	[barg]	[kW]
<b>     </b> Tornado	4 – 10	150 – 400	5.5 - 15.0
<b>     </b> Hurricane	4 – 10	150 – 400	11 – 55.0
5000 series	4 – 10	150 – 350	20 - 75.0
/////6000 series	4 – 10	100 – 500	90 - 250.0
HAUG.Sirius Nand	Loc max. 30	100 – 450	11 – 30.0



## Hydrogen Compressor Range

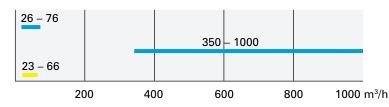
### **High and Highest Pressure**

	Inlet Pressure	Final Pressure	Max. Power
	[barg]	[barg]	[kW]
<b>     </b> Hurricane	0.05-0.2	150 – 350	15 – 38
////6000 series	0.05 - 20	100 – 450	90 – 200
HAUG. Sirius Nan	oLoc max. 30	100 – 450	13.3 – 18.9

Volume Flow Range [m<sup>3</sup>/h]

Volume Flow Range

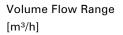
200

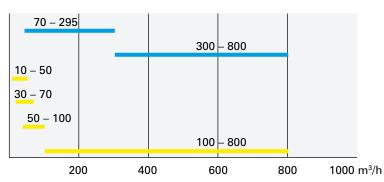


## Helium Compressor Range

### **Low and Medium Pressure**

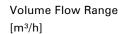
	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
/////Passat	0.05	10 - 40	15 – 55.0
////6000 series	0.05 – 16	10 – 350	90 – 250.0
HAUG.Pluto	max. 20	10 - 50	0.55 – 2.2
HAUG.Mercure	max. 15	10 - 80	3 – 4.0
HAUG.Neptune	max. 13	10 – 100	2.2 – 7.5
HAUG.Sirius	max. 30	10 – 100	7.5 – 30.0

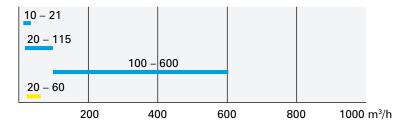




### **High and Highest Pressure**

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<b>     </b> Tornado	0.05	150 – 230	5.5 – 15.0
<b>     </b> Hurricane	0.05	150 – 230	11 – 55.0
/////6000 series	0.05 – 16	100 – 350	90 – 250.0
HAUG.Sirius Na	noLoc max. 30	100 – 230	11 – 30.0



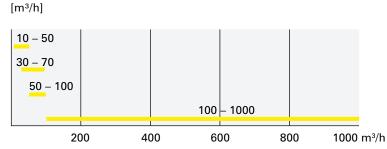


## Oxygen Compressor Range

### Low and Medium Pressure

	Inlet Pressure	Final Pressure	Max. Power
	[barg]	[barg]	[kW]
HAUG.Pluto	max. 20	10 – 30	0.55 – 2.2
HAUG.Mercure	max. 20	10 – 30	3 – 4.0
HAUG.Neptune	max. 13	10 – 30	2.2 – 7.5
HAUG.Sirius	max. 16	10 – 30	37 – 110.0

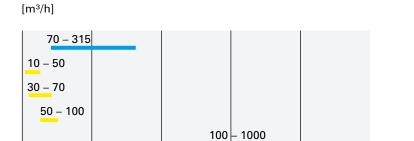




## **CNG Compressor Range**

### **Low and Medium Pressure**

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
/////Passat	0.05	10 - 40	15 – 55.0
HAUG.Pluto	max. 20	10 – 60	0.55 – 2.2
HAUG.Mercure	max. 15	10 – 100	3 – 4.0
HAUG.Neptune	max. 13	10 – 100	2.2 – 7.5
HAUG.Sirius	max. 30	10 – 100	7.5 – 30.0



600

800

1000 m<sup>3</sup>/h

400

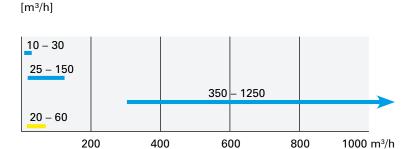
Volume Flow Range

200

Volume Flow Range

### **High and Highest Pressure**

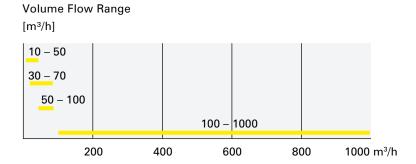
ln	let Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<b>     </b> Tornado	0.05	150 – 350	5.5 – 15.0
Hurricane	0.05	150 – 350	11 – 55.0
/////6000 series	0.05 – 25	100 – 350	90 – 250.0
HAUG.Sirius NanoL	oc max. 30	100 – 350	7.5 – 30.0



## "Anygas" Compressor Range

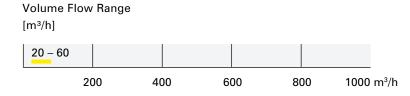
### **Low and Medium Pressure**

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
HAUG.Pluto	max. 20	10 – 60	0.55 - 2.2
HAUG.Mercure	max. 15	10 - 100	3 - 4.0
HAUG.Neptune	max. 13	10 - 100	2.2 - 7.5
HAUG.Sirius	max. 30	10 - 100	7.5 - 30.0



### **High and Highest Pressure**

Inlet	Pressure	Final Pressure	Max. Power
	[barg]	[barg]	[kW]
HAUG.Sirius NanoLoc	max. 30	100 - 450	7.5 – 30.0



## Modular design for maximum versatility

## Oil-lubricated SAUER compressors

Due to their modular design, our Sauer compressors can easily be expanded to accommodate specific requirements – from the affordable "Basic"-variants to complete systems, consisting of a sound-proof canopy, an integrated Sauer compressor control, a condensate management and an integrated high-pressure adsorption dryer.

### SAUER Basic variants

series variants	IIII Mistral	Passat	//// Breeze	///// Hurricane	///// Tornado	Турһооп	////5000 series	/////6000 series
Basic	<b>✓</b>	✓	✓	✓	✓	✓	✓	✓
BasDiesel (E/FA)	✓	✓	_	✓	_	_	_	-
BasBooster	✓	✓	-	✓	✓	✓	✓	-
BasSeal <sup>He</sup>	-	✓	_	✓	_	_	_	✓
BasSeal <sup>CNG</sup>	-	✓	-	✓	-	-	-	✓





Basic Air compressor with e-motor

BasDiesel Air compressor with diesel engine

**E**: Electric start, manual operation | **FA**: Full automatic start and operation

BasBooster Nitrogen Booster with e-motor

BasSeal<sup>He</sup> Gas-tight Helium compressor with e-motor
BasSeal<sup>CNG</sup> Gas-tight CNG compressor with e-motor

### SAUER Complete variants

series variants	Mistral	///// Passat	/////Breeze	///// Hurricane	///// Tornado	///// Турһооп	IIII 5000 series	/////6000 series
ComSilent	✓	✓	-	✓	✓	_	_	_
ComDry	✓	✓	_	✓	✓	_	_	-
ComBooster	✓	✓	-	✓	✓	-	-	-
ComSeal <sup>He</sup>	1	<b>✓</b>	_	✓	<b>√</b>	-	_	_







/////Tornado | WP 3251 ComBooster

ComSilent ComDry

Air compressor with e-motor in sound proof canopy incl. Sauer electronic compressors control Air compressors with e-motor in sound proof canopy incl. Sauer electronic compressors control

and integrated adsorption dryer

ComBooster ComSeal He

Nitrogen Booster with e-motor in sound proof canopy incl. Sauer electronic compressors control Gas-tight Helium compressor with e-motor in sound proof canopy incl. Sauer electronic

compressors control

## **Maximum process purity and safety**

## Oil-free compressors

Oil-free & hermetically gas-tight: these remarkable features characterise HAUG compressors. All HAUG series are available in different variants, ranging from compressor blocks for OEM customers up to complex solutions according to customer's specifications including controls, sound proof canopies, storage systems and many more.

Based on a flexible modular concept, all compressor types can be configured exactly to the customer' demands.

### **Bas**ic variants

series variants	HAUG.Cygnus	HAUG. Taurus	HAUG.Orion	HAUG. Pluto	HAUG.Mercure	HAUG.Neptune	HAUG.Sirius	HAUG.Titan
Block	✓	_	_	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	_
Incomplete	✓	-	_	✓	✓	✓	✓	-
Basic	✓	✓	✓	✓	✓	✓	✓	✓



HAUG.Pluto | Block



HAUG.Mercure | Incomplete



HAUG.Neptune | Basic

Block Compressor block with e-motor

Incomplete Compressor block incl. piping and e-motor

Basic Compressor incl. piping, wiring and connection box

### Complete variants

series variants	HAUG. Cygnus	HAUG. Taurus	HAUG.Orion	HAUG.Pluto	HAUG.Mercure	HAUG.Neptune	HAUG. Sirius	HAUG.Titan
ComControl	✓ ×	✓ ×	✓ ×	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Package	✓	✓	✓	✓	✓	✓	✓	✓



HAUG.Sirius | ComControl



**ComControl** Compressor module incl. electronic compressor control

**Package** Customised solution with features such as sound proof canopies, container installation, storage systems and many more.

### NanoLoc® high-pressure variants

series variants	HAUG.Cygnus	HAUG. Taurus	HAUG.Orion	HAUG.Pluto	HAUG.Mercure	HAUG.Neptune	HAUG.Sirius	HAUG.Titan
NanoLoc®	-	-	_	-	_	_	✓	_

Due to the unique and patented NanoLoc® piston design, final pressures up to 450 barg are possible.



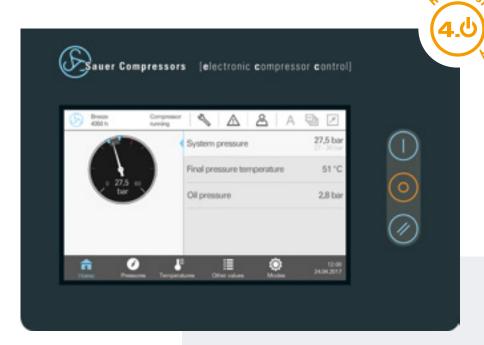
HAUG.Sirius NanoLoc

### **Controls**

### Sauer ecc 4.0: Intelligent control for outstanding performance

We pride ourselves on being a single-source manufacturer of both the compressor and the control unit. Even the software is developed in-house. This allows for the best possible performance, maximum compatibility and easy integration. Equipped with state-of-the-art microprocessors and communication technology, our intelligent controls enable highly accurate monitoring and control of compressed air and gas generation and supply. In this way, operators can rest assured that the system is running at maximum efficiency at all times.

- Compressor, control and software from a single source
- Compatible with all standard interfaces
- Easy integration and operation



- ✓ Fully automatic compressor control
- PPLC (pre-programmed logic control) for simple operation
- ✓ Modular system with easy extensibility
- √ 7" resistive, industrial touch display
- ✓ Intuitive interface design acc. to DIN EN ISO 9241-110:2006
- ✓ Intelligent maintenance instructor
- Embedded guides for fast parameter setting and safe updates

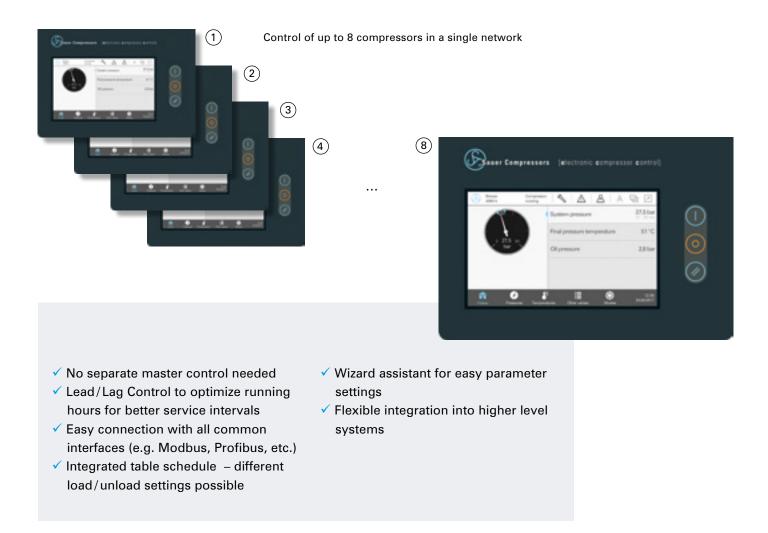
### Maximum connectivity

- Compatible with all state-of-the-art bus technologies, e.g. Profibus and Modbus
- Standard potential-free contacts like Running, Off and Master Fault
- Easy integration into higher level controls, e.g. plant controls
- Complete monitoring ensures outstanding performance and minimum down time

### **Master Controls**

### Connectivity: Control management of up to 8 compressors in a single network

With the Sauer ecc 4.0 it is possible to connect a total of eight Sauer compressors via the intergrated Modbus protocol. In this case, a single controller takes over the master function so that no separate master control is needed. Overall optimisation of the system can be achieved via lead-lag control, by priority setting or through operation within a pressure band. To create detailed schedules, the control comes with an easy-to-use table function.



### Connectivity: Connection to an external SCADA system

Sauer ecc 4.0 units can be connected to an external master control, e.g. SCADA, via common communications protocols. The controller comes with an integrated Modbus gateway. Other protocols such as Profibus or DeviceNet are also available. This type of protocol enables all important data, such as pressure and temperature, to be displayed on the SCADA system. This ensures the network's safe operation and helps to optimise costs and availability.

### **Accessories**

### Air and gas treatment

In addition to our compressors, we offer a wide range of downstream equipment, such as filters for air and gas purification as well as refrigeration and desiccant type dryers. These solutions are available for pressures ranging from 40 to 400 barg.



### Condensate management

To prevent traces of oil and other contaminants from being released into the environment, we provide a variety of condensate collection pots for use with our oil-lubricated compressors.



### Air and gas storage

When it comes to storing the compressed media, Sauer customers can choose from a variety of options. The portfolio includes both vertical and horizontal pressure vessels for pressures up to 40 barg as well as high-pressure bottle racks with capacities of up to 600 I for pressures up to 350 barg.



### Air and gas distribution

To ensure optimal air and gas distribution, the right pressure is essential. Our efficient Reduflex pressure reducing stations offer maximum reliability and present the ideal addition to any compressor station.



### Water to water heat exchanger

When using fresh water cooled compressors, it can be necessary to protect the cooling circuit from harmful cooling water. The heat exchanger from Sauer Compressors separate the primary water circuit from the secondary circuit, resulting in highest operational reliability regardless of water conditions.



## **Sauer Compressors Projects**

In addition to offering a wide range of turnkey solutions, Sauer Compressors is ideally equipped to meet highly individual demands. We achieve this by either customising our standard products or by literally going back to the drawing board to design the required specification. We provide explosion proof designs or options that are in accordance with NORSOK, ASME and many other standards.

- Completely new customer specific designs
- Specifications in accordance with international standards
- Standard products easily adapted to customers' needs

### Sauer ComBox container solutions:

With our ComBox container toolkit we can provide individual high-end container solutions in the shortest time. As Basic, Plus or Offshore version with CSC certification in 10" or 20".





## **SAUER**

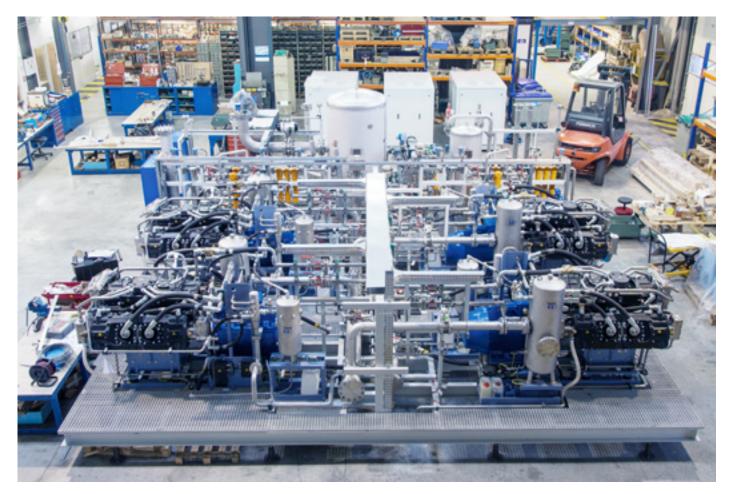
### Replicating the sun's fusion energy: The ITER project

A spectacular vision is gradually becoming reality in Cadarache in the south of France. Modelled on the sun, the ITER (International Thermonuclear Experimental Reactor) fusion system uses nuclear fusion to generate energy in order to secure humanity's supply of electricity. One of the biggest challenges is the high temperature inside the reactor. Technology by Sauer Compressors is a key factor in cooling the reactor: we supplied the world's largest system for helium recovery.

A total of four WP 6305 BasSeal<sup>He</sup>-type helium compressors ensure recompression of the helium used for cooling. The contract included all the components of the recovery plant, including buffer tanks, filtration system and controls. A further PASSAT WP 156L BasSeal<sup>He</sup>-type helium compressor is used to recompress any leaks occurring at mechanical seals in the helium circuit.









### Circuit compressors for refrigerant C3F8 for fundamental research at CERN in Geneva

CERN, the European Organization for Nuclear Research, is a major research organization based in the canton of Geneva in Switzerland. It conducts fundamental research and operates the largest particle physics laboratory in the world with particle accelerators and other infrastructure needed for high-energy physics research. With the Large Hadron Collider (LHC) it operates the world's largest and most powerful particle collider which is the largest machine in the world.

Detectors investigate the energetic collisions of the LHC and analyse them in different experiments. One of these detectors is ATLAS (A Toroidal LHC ApparatuS), focussing on high-energy proton-proton-collisions. It studies the Higgs boson particle and looks for signs of new physics, including the origins of mass and extra dimensions.

The inner detector of ATLAS needs to be cooled down to -20 °C. Seven 2-stage HAUG. Sirius compressors with combined water- and air-cooling assure the compression of the perfluoropropane (C3F8) in the refrigerantion circuit providing the cooling of the detector.





## Our Service - As individual as your needs!

We are in it for the long haul! At Sauer Compressors, our commitment to our customers does not stop at delivery. Our support spans our products' entire operating life. In this way, we make sure our customers get the most out of their compressed air system – low running costs and maximum reliability. Our highly skilled service technicians, representatives and servicing stations in over 60 countries guarantee an efficient, expert customer service wherever and whenever it is required.



### **Genuine Spare Parts**

- Extensive central warehouse (all maintenance and regular spare parts in stock)
- Global warehouses strategically located for short delivery times
- High quality genuine spare parts to ensure proper operation and performance of your compressor
- Interchangeability is guaranteed even if technical changes have been made due to technical developments
- Spare parts are guaranteed for at least 35 years after the delivery of your compressor
- All parts come with a "Sauer Certificate of Conformity and Authenticity"

### **Technical After Sales Services:**

- Full service contracts
- Maintenance contracts
- Inspection contracts
- Maintenance at client's facility or in our workshop
- Complete compressor overhauls at our workshop
- Support and advice while changing from third party to our product range

### **Rental Solutions**

Sauer Compressors offers an efficient, straightforward compressor hire service for customers who require compressed air or gas immediately or over a fixed period. From standard compressors to customised modules, no matter if you need to handle temporary orders, unforeseen outages or simply to bridge waiting times, with our worldwide network we have the right solution for virtually every application. All compressors are immediately available, easy to set up and can be pre-set in our factory according to our customers' needs. You receive a flexible all-inclusive package with individual monthly rates.



#### By choosing Sauer Rental Solutions, customers benefit from:

- Worldwide rental fleet
- Compressors ranging from 20-500 barg immediately available
- All-inclusive package no maintenance, no extra cost
- Most up-to-date compressor technology without long delivery times
- Attractive buying option throughout the entire rental time

## **Sauer Training**

To keep your technical knowledge up-to-date, Sauer offers numerous comprehensive and practical training courses. The courses can take place either in one of our world-wide training centres or on-site with your own compressor. Divided into various categories, the training provides users, operators, maintenance personnel and service technicians with the knowledge they need - all tailored to your specific requirements.

### **Training options**

- In-house training
- On-site training
- On-the-job training
- Train the trainer seminars
- Sauer Training Container



service@sauercompressors.de

Sauer Service-Stations: www.sauercompressors.com



## Anywhere, anytime, anygas - anything else?

In addition to high-quality compressors, control systems, accessories and services, Sauer Compressors customers benefit from:

### **Engineering assistance**

Through our local representations we can assist engineering teams locally and offer support with regard to integrating our products. In this way, we ensure our customers make the most of their installation.

### **Documentation – Integrated Logistics Support (ILS)**

High-value products and solutions require high-quality documentation. This includes the whole range of Integrated Logistics Support (ILS).

### Factory acceptance tests and third-party inspection

For Sauer Compressors, quality is not a promise – it's a fact! All our compressors are subjected to a 12-hour endurance test at final pressure and issued a high level 3.1 inspection certificate after the final inspection. Upon request, third-party inspections can be performed. For our helium compressors, we have devised an extensive 16-hour test procedure that is unprecedented in the industry. Both static and dynamic leak rates are tested with the noble gas itself. As a result, operators benefit from 'true' helium compressors providing unparalleled leak tightness.

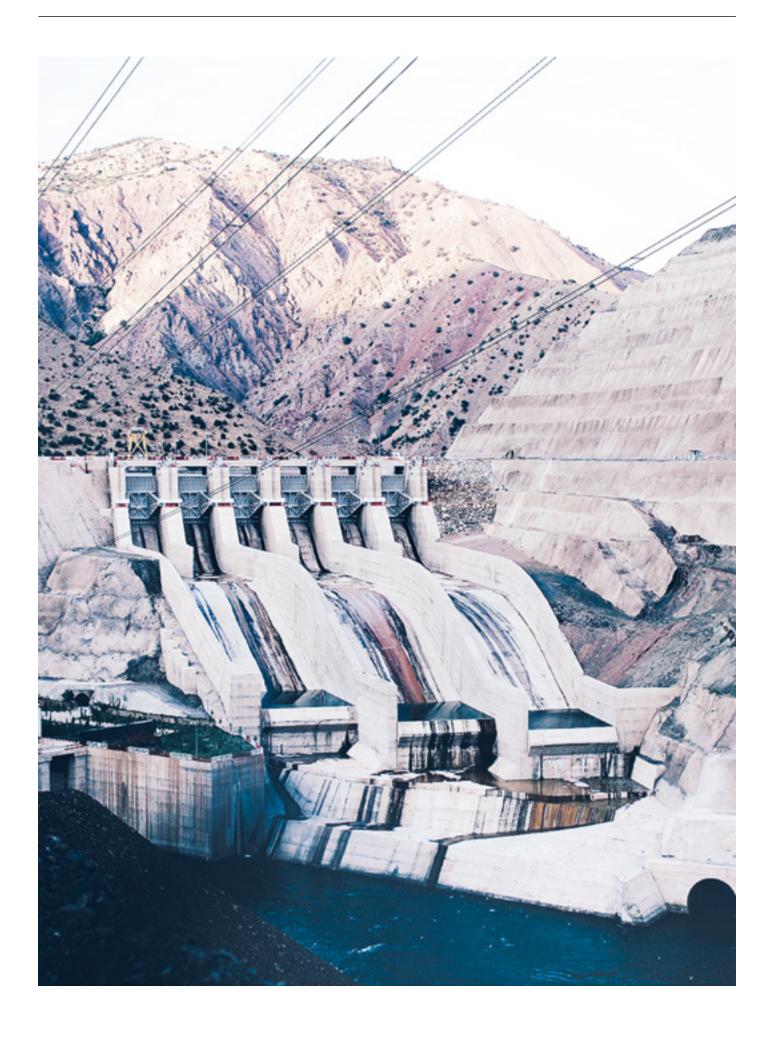
### Installation and commissioning

Even the best product's performance will suffer if the installation is faulty. Upon request, our expertly trained service technicians will set up the newly acquired Sauer product and integrate it into established systems at our customer's facility. Thanks to our local representations, this service is available anywhere in the world. After the initial setup, the installation is thoroughly tested and finally commissioned. To ensure maximum performance, low operating costs and a long service life, we offer in-house trainings for the operating staff.

### Certifications

ISO 9001:2015 BS OHSAS 18001:2007









J. P. Sauer & Sohn Maschinenbau GmbH

www.sauercompressors.com

Brauner Berg 15 24159 Kiel Germany www.sauercompressors.com

#### Sauer Compressors UK Ltd.

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

#### Sauer Compressors USA Inc.

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

### **ELGI Sauer Compressors Ltd**

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

**HAUG Sauer Kompressoren AG** 

Industriestrasse 6 9015 St. Gallen Switzerland www.haug.ch

#### Sauer Compressori S.r.l.u.

Via Santa Vecchia 79

23868 Valmadrera Italy

www.sauercompressors.com

#### **Sauer Compressors Mexico**

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

### Sauer Compressors China Ltd.

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

Girodin-Sauer SAS

16 Chemin du Bas des Indes 95240 Cormeilles en Parisis France

www.girodin-sauer.com

### **Sauer Compressors CIS**

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

### Sauer do Brasil LTDA

Rua Montevideu 327, Penha Rio de Janeiro 21020 - 290 Brasil

www.sauerbrasil.com.br

### Sauer Compressors Singapore

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