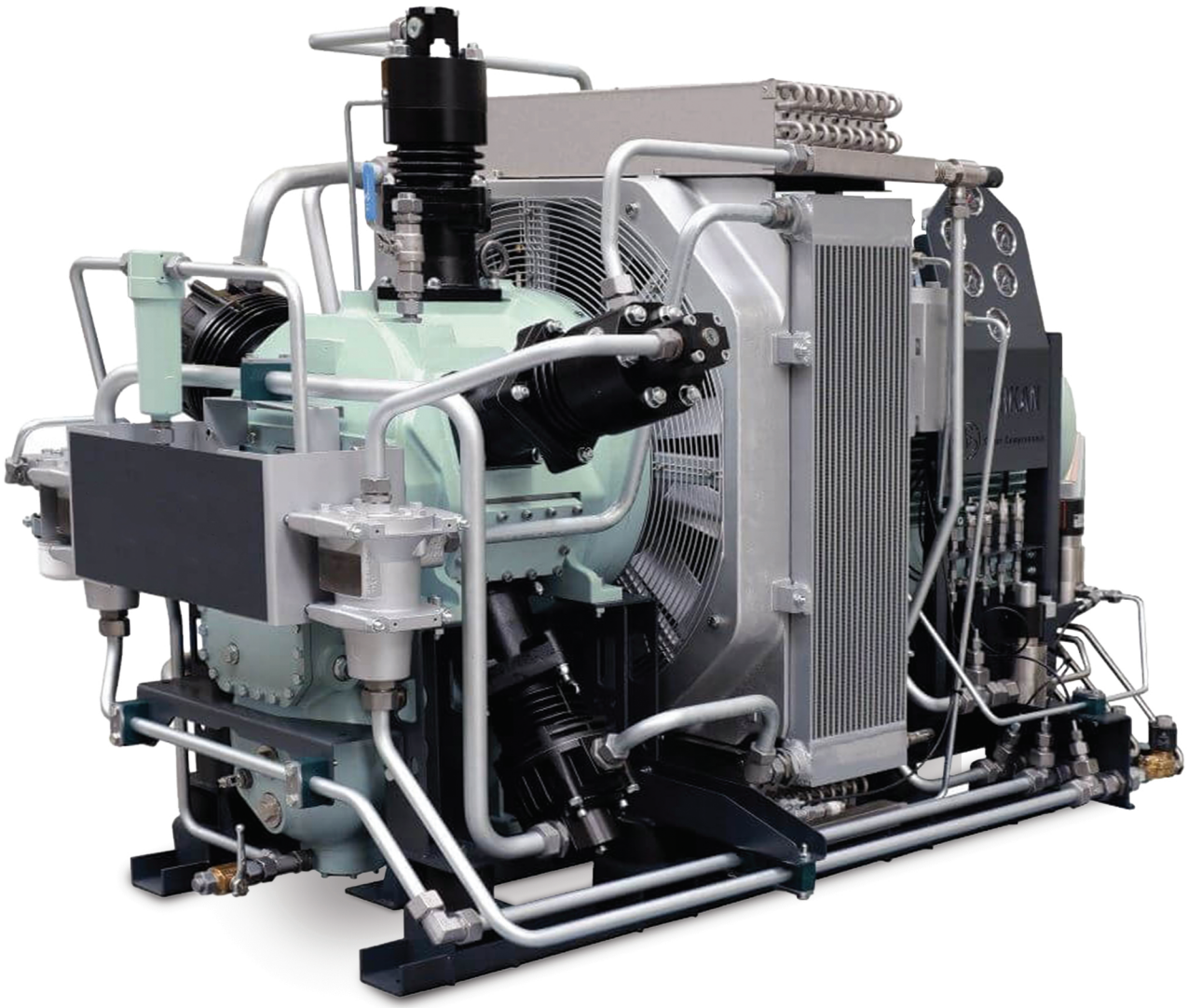
Sauer Compressors

CELESTIAL TECH

Sauer Compressor

AIR & ANY GAS UP TO 500 BAR



SAUER HAUG

Sales:
01894-440152

Service:
01894-440152

Company Overview

CELESTIAL TECH LIMITED is a trusted, family-owned provider of comprehensive engineering solutions, specializing in the marine and industrial sectors. With a commitment to innovation, quality, and customer satisfaction, we offer cutting-edge products and services designed to meet the unique needs of our clients.

In the marine industry, we proudly lead the way in Bangladesh, delivering a wide range of tailored solutions that include boat and ship design, high-quality construction materials, advanced propulsion systems, and reliable power generation, distribution, and lighting systems. Our expertise extends to state-of-the-art steering systems, deck machinery, pumps, and air conditioning solutions. Additionally, we provide complete equipment packages—covering everything from navigation and communication tools to lifesaving and firefighting equipment, as well as hydrographic, oceanographic, and meteorological instruments. For the fishing sector, we offer top-tier sonar and fish finders, ensuring your operations run smoothly and efficiently.

In the industrial sector, **CELESTIAL TECH LIMITED** is a key player in the decentralized power and energy market. We offer reliable diesel and gas-fired generator sets for both standby and continuous operations, ensuring your business stays powered when it matters most. Beyond power solutions, we specialize in high-performance industrial systems, including air compressors, air treatment technologies, filtration solutions, and dust collectors, all sourced from world-class manufacturers.

To back up our promise of reliability, we offer exceptional service support. Our team of factory-trained technicians is always ready to assist you with expert care, ensuring that any maintenance or repair needs are met promptly and professionally. Plus, we maintain a comprehensive inventory of spare parts, so you can rest easy knowing that the parts you need are always available, whenever you need them.

Sauer Compressors

A medium-sized German group of companies with 15 international subsidiaries. The company looks back on 140 years of history and over 90 years of experience in compressed air and gas technology. These days, the focus is on the development, manufacture and sale of oil-lubricated and oil-free medium- and high-pressure compressors for applications in commercial shipping, navy, industry and offshore sector.

The four product lines SAUER, HAUG, GIRODIN and EK focus on specific fields of application. The SAUER line comprises oil-lubricated high-pressure compressors for a wide variety of applications, while HAUG stands for oil-free and hermetically gas-tight compressors. The GIRODIN and EK lines offer special compressors for the naval market.

Sauer Compressors' modern reciprocating compressors for the compression of air and various gases reach pressures of 20 to 500 barg. Besides standard products, it offers customised solutions for individual customers, OEMs and companies that operate on a global stage.

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.

SAUER **oil-lubricated,** hermetically gas-tight

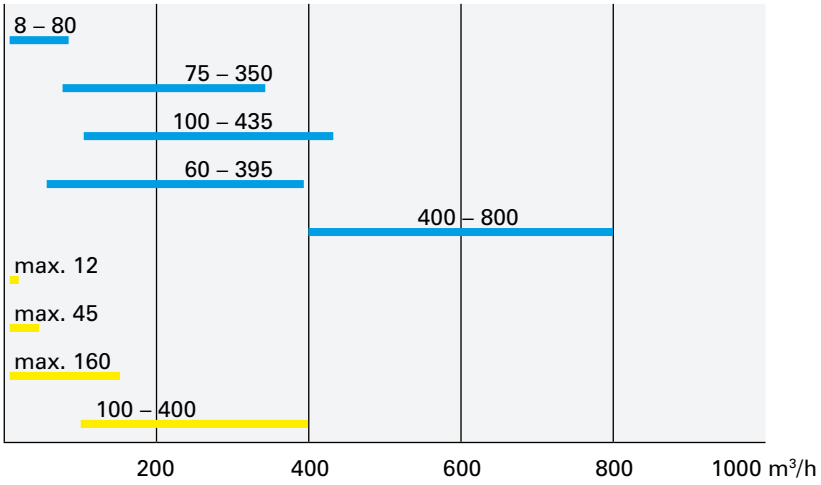
HAUG **oil-free,** dry-running and hermetically gas-tight

Air Compressor Range

Low and Medium Pressure

	Final Pressure [barg]	Max. Power [kW]
Mistral	10 – 40	3.0 – 18.5
Passat	10 – 80	15.0 – 55.0
Breeze	10 – 40	37.0 – 90.0
Typhoon	10 – 100	15.0 – 90.0
6000 series	10 – 100	132.0 – 230.0
HAUG.Cygnus	5 – 30	0.37 – 2.2
HAUG.Taurus	5 – 60	4.0 – 11.0
HAUG.Orion	5 – 60	11.0 – 30.0
HAUG.Sirius	10 – 100	7.5 – 30.0

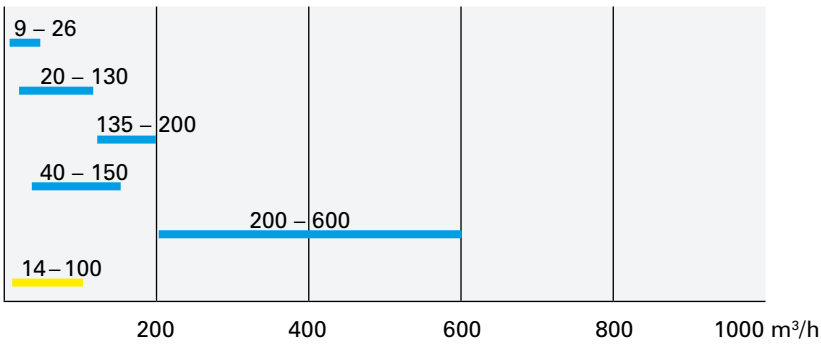
Volume Flow Range [m³/h]



High and Highest Pressure

	Final Pressure [barg]	Max. Power [kW]
Tornado	150 – 400	5.5 – 15.0
Hurricane	150 – 400	11.0 – 55.0
Orkan	150 – 500	90.0 – 110.0
5000 series	150 – 350	20.0 – 75.0
6000 series	100 – 500	132.0 – 230.0
HAUG.Sirius NanoLoc	100 – 450	11.0 – 30.0

Volume Flow Range [m³/h]

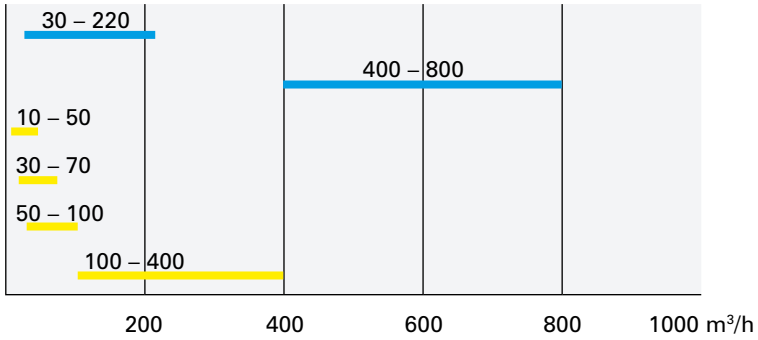


Air and Nitrogen Booster Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
Mistral	4 – 8	10 – 40	7.5 – 21.5
6000 series	4 – 16	10 – 100	132.0 – 230.0
HAUG.Pluto	max. 20	10 – 60	0.55 – 2.2
HAUG.Mercure	max. 15	10 – 100	3.0 – 5.5
HAUG.Neptune	max. 13	10 – 100	2.2 – 7.5
HAUG.Sirius	max. 30	10 – 100	7.5 – 30.0

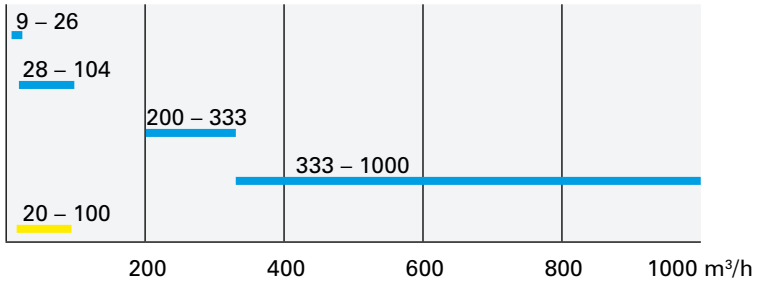
Volume Flow Range [m³/h]



High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
Tornado	3 – 5	150 – 350	5.5 – 8.7
Hurricane	3 – 8	150 – 350	15.0 – 30.0
Orkan	4 – 7	150 – 350	90.0 – 110.0
6000 series	5 – 10	100 – 350	132.0 – 230.0
HAUG.Sirius NanoLoc	max. 30	100 – 450	11.0 – 30.0

Volume Flow Range [m³/h]

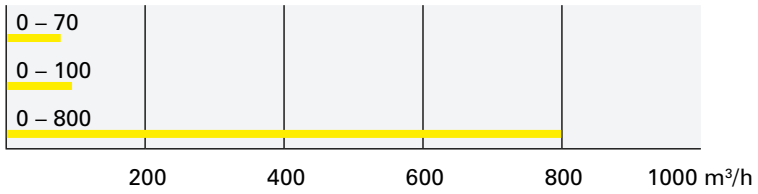


Hydrogen Compressor Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
HAUG.Mercure	max. 15	100	3.0 – 5.5
HAUG.Neptune	max. 13	100	2.0 – 7.5
HAUG.Sirius	max. 30	100	7.5 – 30.0

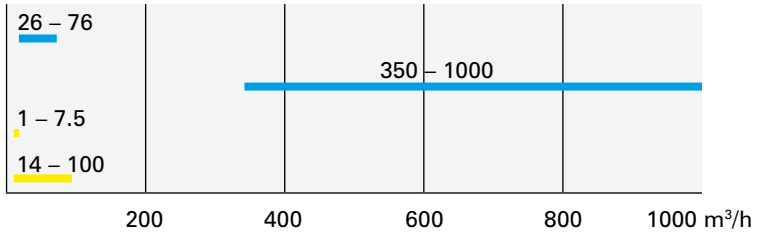
Volume Flow Range [m³/h]



High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
Hurricane	0.05 – 0.2	150 – 350	15.0 – 38.0
6000 series	0.05 – 20	100 – 350	132.0 – 230.0
HAUG.Mercure NanoLoc	max. 24	100 – 200	4.0 – 7.5
HAUG.Sirius NanoLoc	max. 30	100 – 450	11.0 – 30.0

Volume Flow Range [m³/h]



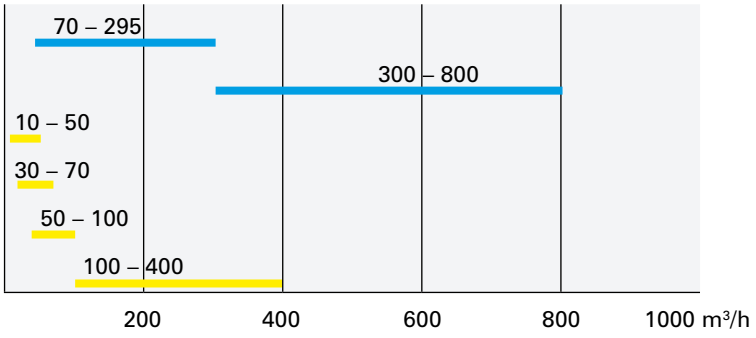
Conversion of volume flow into kg/h: *1 m³/h (20°C, 1,013 hPa) = 0.083 kg/h*

Helium Compressor Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
Passat	0.05	10 – 40	15.0 – 55.0
6000 series	0.05 – 16	10 – 350	132.0 – 230.0
HAUG.Pluto	max. 20	10 – 50	0.55 – 2.2
HAUG.Mercure	max. 15	10 – 80	3.0 – 5.5
HAUG.Neptune	max. 13	10 – 100	2.2 – 7.5
HAUG.Sirius	max. 30	10 – 100	7.5 – 30.0

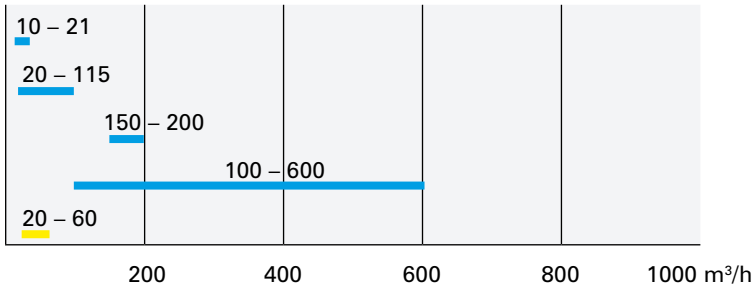
Volume Flow Range [m³/h]



High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
Tornado	0.05	150 – 230	5.5 – 15.0
Hurricane	0.05	150 – 230	11.0 – 55.0
Orkan	0.05	150 – 350	90.0 – 110.0
6000 series	0.05 – 16	100 – 350	132.0 – 230.0
HAUG.Sirius NanoLoc	max. 30	100 – 450	7.5 – 30.0

Volume Flow Range [m³/h]

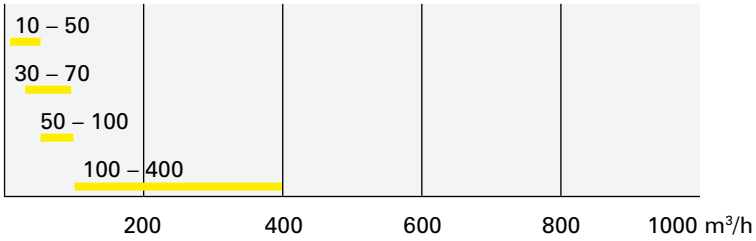


Oxygen Compressor Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
HAUG.Pluto	max. 20	10 – 30	0.55 – 2.2
HAUG.Mercure	max. 15	10 – 30	3.0 – 5.5
HAUG.Neptune	max. 13	10 – 30	2.2 – 7.5
HAUG.Sirius	max. 16	10 – 30	7.5 – 30.0

Volume Flow Range [m³/h]

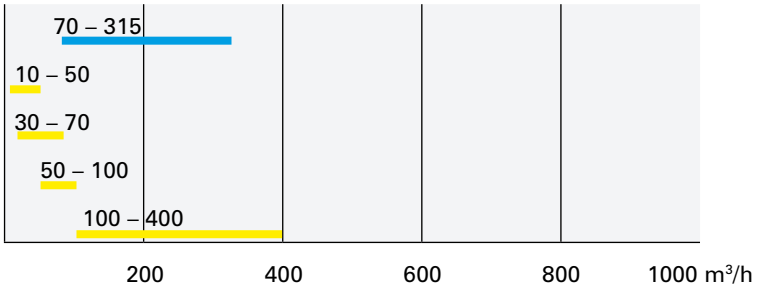


CNG Compressor Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
Passat	0.05	10 – 40	15.0 – 55.0
HAUG.Pluto	max. 20	10 – 60	0.55 – 2.2
HAUG.Mercure	max. 15	10 – 100	3.0 – 5.5
HAUG.Neptune	max. 13	10 – 100	2.2 – 7.5
HAUG.Sirius	max. 30	10 – 100	7.5 – 30.0

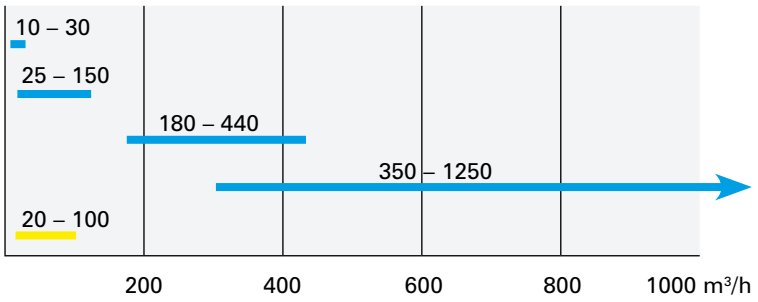
Volume Flow Range [m³/h]



High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
Tornado	0.05	150 – 350	5.5 – 15.0
Hurricane	0.05	150 – 350	11.0 – 55.0
Orkan	1.5 – 7	100 – 350	90.0 – 110.0
6000 series	0.05 – 25	100 – 350	132.0 – 230.0
HAUG.Sirius NanoLoc	max. 30	100 – 450	7.5 – 30.0

Volume Flow Range [m³/h]

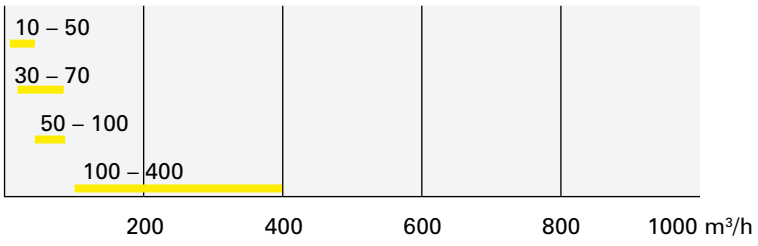


Gas Mixtures & Special Gases Compressor Range

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	3.0 – 5.5
HAUG.Neptune	max. 13	10 – 100	2.2 – 7.5
HAUG.Sirius	max. 30	10 – 100	7.5 – 30.0

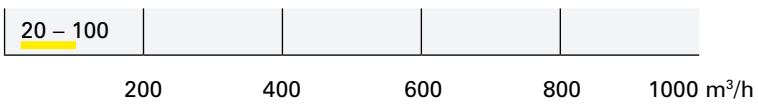
Volume Flow Range [m³/h]



High and Highest Pressure (on request)

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

Volume Flow Range [m³/h]



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.

- SAUER Refrigeration Dryers (SRD)
- SAUER Desiccant Dryers (SDD)

Sauer SRD HH
High-pressure refrigeration dryers

Model	Volume Flow rate m^3/h	Working pressure barg	Pressure dew point °C	Power consumption W
SRD 027 HH	27	350 – 420	3 – 5	420
SRD 054 HH	54	350 – 420	3 – 5	560
SRD 085 HH	85	350 – 420	3 – 5	600
SRD 120 HH	120	350 – 420	3 – 5	700
SRD 150 HH	150	350 – 420	3 – 5	850

Sauer SRD H
High-pressure refrigeration dryers

Model	Volume Flow rate m^3/h	Working pressure barg	Pressure dew point °C	Power consumption W
SRD 027 H	27	250-350	3 – 5	420
SRD 054 H	54	250-350	3 – 5	560
SRD 085 H	85	250-350	3 – 5	600
SRD 120 H	120	250-350	3 – 5	700
SRD 150 H	150	250-350	3 – 5	850

Sauer SRD MH
High-pressure refrigeration dryers

Model	Volume Flow rate m^3/h	Working pressure barg	Pressure dew point °C	Power consumption W
SRD 156 MH	up to 156	75 – 100	3 – 5	600

Sauer SRD L
Low-pressure refrigeration dryers

Model	Volume Flow rate m^3/h	Working pressure barg	Pressure dew point °C	Power consumption kW
SRD 0105 L	105	5 – 14	3 – 5	0.3
SRD 0150 L	150	5 – 14	3 – 5	0.47
SRD 0225 L	225	5 – 14	3 – 5	0.8
SRD 0360 L	360	5 – 14	3 – 5	0.76
SRD 0550 L	550	5 – 14	3 – 5	1.1
SRD 0650 L	650	5 – 14	3 – 5	1.52
SRD 0850 L	850	5 – 14	3 – 5	1.6

Sauer SRD M
Medium-pressure refrigeration dryers

Model	Volume Flow rate m^3/h	Working pressure barg	Pressure dew point °C	Power consumption kW
SRD 0135 M	135	15 – 50	3 – 5	0.46
SRD 0240 M	240	5 – 50	3 – 5	0.75
SRD 0315 M	315	5 – 50	3 – 5	0.7
SRD 0450 M	450	5 – 50	3 – 5	0.84
SRD 0615 M	615	5 – 50	3 – 5	1.1
SRD 0810 M	810	5 – 50	3 – 5	1.45
SRD 1010 M	1008	5 – 50	3 – 5	1.45

Sauer SDD
High-pressure desiccant dryers

Model	Volume Flow rate m^3/h	Working pressure barg	Pressure dew point °C	Power consumption kW
SDD 8H	10 – 240	220 – 350	-40	max. 55
SDD 13H				
SDD 18H				
SDD 26H				
SDD 31H				

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 cylinder racks with capacities of up to 600 l for pressures up to 350 barg.

- SAUER BasRack 2 – 12
- SAUER PureRack 2 – 12

Sauer BasRack
High-pressure storage systems

Model	Bottle size litres	Total capacity litres	Working pressure barg	Test pressure barg
BasRack2	2 x 50	100	330 / 350	475 / 525
BasRack6	6 x 50	300	330 / 350	475 / 525
BasRack12	12 x 50	600	330 / 350	475 / 525

Sauer PureRack
High-pressure storage systems

Model	Bottle size litres	Total capacity litres	Working pressure barg	Test pressure barg
PureRack6	6 x 50	300	330 / 350	475 / 525
PureRack12	12 x 50	600	330 / 350	475 / 525

Oil-free air compressors for industrial applications

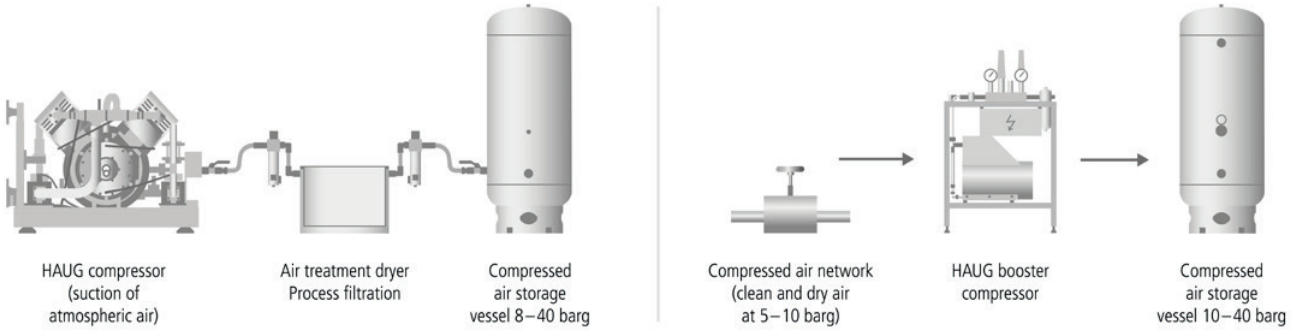
100% oil-free compressed air is widely used in industry as instrument and process air at applications in production, pharmaceutical, research, food and beverage industries.

Product line	Product ranges	Media	Power Range	Pressure Range	Flow Rate
HAUG	*HAUG.Cygnus* *HAUG.Taurus* *HAUG.Pluto* *HAUG.Mercure* *HAUG.Sirius*	Air	0.37 – 30 kW	up to 40 barg	up to 300 Nm³/h

Application

100% oil-free compressed air fulfills a key role in production as process air or as instrument air. Application examples can be found at industrial parks, in the automotive industry or in the production of electrical, electronic or medical equipment.

HAUG is the specialist for 100% oil-free compressed air piston compressors. There are standardized compressor versions with atmospheric intake pressure or booster compressors that draw pre-compressed, clean and dry air from the compressed air network and compress it to the final desired pressure level. Special versions with individual technical data and scope of delivery or, for example, with ATEX certification for installation in potentially explosive atmospheres are available on request.



Oil-free air compressors for industrial applications

Scope of delivery for Variants Basic and BasSeal
Includes compressor block with electric motor, coupling, compressor piping, intermediate and discharge gas coolers. Instrumentation, sensors, safety valves, check valve and bypass valves for safe and reliable operation. Everything is built on a base frame supported on flexible vibration dampers. Optionally with electrical wiring of electrical equipment to junction boxes according to EN standards. Optional with process air filters.

Scope of delivery for Variant ComControl
Includes compressor variants Basic or BasSeal with built-in compressor control unit for starting, stopping and monitoring compressor operation. The control unit is either of type HAUG or SIEMENS, depending on compressor type. Electrical execution is according to EN standards. Compressor and control unit are installed and connected on a common skid. Optionally with process air filters.

Piston compressors with atmospheric suction pressure

	HAUG.Cygnus 21L 45 D4		HAUG.Cygnus 21L 45 D2		HAUG.Cygnus 21L 75 D4		HAUG.Cygnus 22L 45-25 D4		HAUG.Cygnus 22L 45-25 D2		HAUG.Cygnus 22L 75-35 D4		HAUG.Taurus 32L 100-60 LM-L		HAUG.Taurus 33L 100-60-30 LM-L	
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Motor power (kW)	0.55	0.65	1.1	1.3	2.2	2.6	0.55	0.65	1.1	1.3	2.2	2.6	7.5	6	7.5	5.7
Speed (rpm)	1410	1690	2800	3360	1420	1680	1410	1690	2800	3360	1420	1680	1490	1175	1490	1175
Suction pressure	atmospheric suction pressure															
Discharge pressure continuous bar(abs)	9	9	9	9	8	8	15	15	15	15	15	15	15	11	41	41
Discharge pressure maximum bar(abs)	11	11	11	11	11	11	17	17	17	17	17	17	15	11	41	41
Number of stages	1 stage						2 stages								3 stages	
Number of cylinders	2 cylinders												3 cylinders			
Compressor cooling	air cooled															
Flow rate (Nm3/h) Norm at 1013mbar/0°C	2.4	2.8	4.8	5.3	13.2	15	1.6	1.9	3.2	3.7	7.7	8.9	40	32	20	16

Booster piston Compressors with suction pressure 5 to 10 bar(abs)

	HAUG.Pluto 11E 26 D4		HAUG.Pluto 11E 50 D4		HAUG.Mercure 21E 45 LM-L		HAUG.Mercure 21E 60 LM-L		HAUG.Mercure 22E 45-30 LM-L		HAUG.Mercure 22E 60-40 LM-L		HAUG.Sirius 22G 80-50 LM-L		HAUG.Sirius 42G 80-50 LM-L	
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Motor power (kW)	0.55	0.55	1.5	1.5	4	3	5.5	N/A	5.5	N/A	5.5	N/A	15	11	30	22
Speed (rpm)	1400	1680	1400	1700	1430	1130	1430	N/A	1430	N/A	1430	N/A	1450	1160	1450	1160
Suction pressure	5 to 10 bar(abs) (1) (2)															
Discharge pressure maximum bar(abs)	18	18	18	18	17	17	16	N/A	40	N/A	32	N/A	41	41	41	41
Number of stages	1 stage								2 stages							
Number of cylinders	1 cylinder				2 cylinders										4 cylinders	
Compressor cooling	air cooled															
Flow rate (Nm3/h) at suction 5 bar(abs) Norm at 1013mbar/0°C	2.5	3	11	13	28	22	53	N/A	14	N/A	27	N/A	76	61	149	119
Flow rate (Nm3(h) at suction 10 bar(abs) Norm at 1013mbar/0°C	6.4	7.7	26	30	65	51	118	N/A	30	N/A	50 (1)	N/A	159	127	294 (2)	235 (2)

(1) HAUG.Mercure 22E 60-40 LM-L max suction pressure is 9 bar(abs), (2) HAUG.Sirius 42G 80-50 LM-L max suction pressure is 9.5 bar(abs), N/A = Version not available

HAUG develops compressors for very high customer requirements in terms of continuous operation, operation at high ambient temperatures and long service life.

OIL FREE

The compressor is completely oil-free and there is no danger of oil vapour contamination. HAUG Sauer is the pioneer of oil-free compressors, using their own bearings and special materials.

HIGH EFFICIENCY

Compact and efficient – HAUG compressors are working with high suction pressure, have lower power consumption, higher flow rate and are more compact compressors.

CELESTIAL TECH

WE REPRESENT

Navigation & Communication

SAAB · ICOM · SIMRAD · SAFRAN · LOWRANCE

Propulsion System

HamiltonJet · MERCURY · VOLVO PENTA

Marine Air Conditioner

DOMETIC — Mobile living made easy.

Engine

VOLVO PENTA · Solé Diesel · MERCURY

Generator

VOLVO PENTA · Solé Diesel · FRAMAC · KHONAYSSER GROUP

Deck Machineries

FLUIDMECANICA®

Boats and Yachts

BAYLINER · SAFE BOATS

Fishing Products

ICOM · KAIJO · MARPORT · LOWRANCE · Jmc · HONDA ELECTRONICS

Marine Compressor

Sauer Compressors

Industrial Compressor

Sauer Compressors · ies AIR COMPRESSOR

Ship / Boat Design

ROBERT ALLAN · GLOBAL MARINE DESIGN · BOKSA MARINE DESIGN · tunnicraft design

Marine Pumps

GIANNESCHI® pumps and blowers

Hydrography, Oceanography & Meteorology

NORBIT · KLEIN · A MIND Technology Business · Hemisphere · NORTEK · MAXAR TECHNOLOGIES · KNUDSEN

BUSINESS, ADMINISTRATRATIVE & CONTACT DETAILS

Business Name : CELESTIAL TECH LIMITED
Company Registration no : C-87213/10

Corporate Office:

95 Sohrawardy Avenue, 3rd Floor, Block-K,
Baridhara, Dhaka-1212, Bangladesh
Enquiry: +88 02 41080735-8
Fax: +88 02 41080739

Chattogram Office & Service Center:

131/1, 156 Strand Road, Chattogram-4100
Enquiry: +88 023 33317323
+88 023 33318647
+88 023 33314840

Sales:
01894-440152

Service:
01894-440152

enquiry@celestial-tech.net **www.celestial-tech.net**