



Sauer Compressors

Air and Gas Compressors

for Offshore and the Oil Industry



- sturdy
- innovative
- reliable

www.sauercompressors.com



Sauer Air and Gas Compressors: *for Offshore and*

■ High-Pressure Air and Breathing Air

Whatever the demand – underwater repair and inspection, working when toxic gases can be present, the atmosphere can be oxygen deficient or fire-fighting – the addition of purification to the proven Sauer 150– 400 bar high-pressure compressors ensures 'dry', non-toxic breathable quality air is supplied to meet internationally recognised Breathing Air Standards.



■ Seismic Reflection – Air Guns

Seismic air-guns produce considerable amounts of acoustic energy for deep-water marine exploration. To satisfy the demand for compressed air at about 150– 200 bar Sauer have added a new innovative WP 6000 Compressor/Booster.

With the ability to fit a variety of up to six-cylinders the compressor, or air booster in combination with a screw compressor, can handle much larger volumes at a pressure to 400 bar with flowrates from 250 to 2000 m³/h.



■ Offshore Exploration

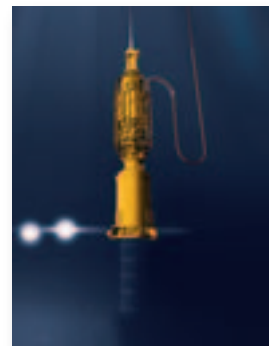
As offshore deepwater development continues to grow, the need for reliable compressor installation increases.

To meet the most demanding standards encountered with offshore oil and gas exploration Sauer offer a complete range of innovative air and gas compressor solutions.

■ Underwater Hammering

The largest deepwater hydraulic hammer in the world, the MHU 750T, is assisted using Sauer Container 3 x WP 4351. Sauer signed an order for a 20' Container solution in September 2010.

The compressor container provides an air bubble between the pile and hammer anvil for proper impact during deep-sea operations. The hammer is capable of driving foundation piles with a length of 80 metres and diameter of 5 metres into the earth in depths of up to 10000' (3000 metres).





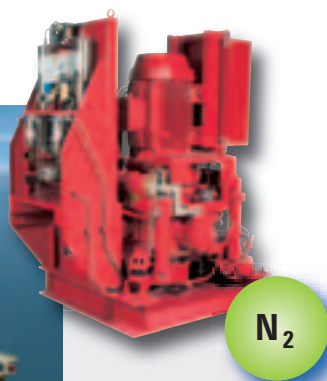
■ Control and Service Air

Low pressure piston compressors

- Air- and water-cooled to 10 bar and 450 m³/h

Low pressure screw compressors

- Air- and water-cooled to 13 bar and 4.000 m³/h



■ Inert Gas Blanketing

Sauer can supply Nitrogen Gas Generators and a Gas Booster, or their own innovative *NitroFLEX* on-site Generator to raise the pressure to 350 bar for efficient gas storage for applications where nitrogen is used for blanketing or protection.

■ Motion Compensation for Semi-submersible Rigs

An innovative combination of pneumatic/hydraulic power provides positive control and flexibility for varied 'compensation' designs to suppress the 'heave' motion due to the action of waves on the floating drill rig platform to dampen and control movement.

- Crown Mounted Compensators
- Drill String
- Passive & Active Heave Compensation
- Marine Riser Tensioners
- Push Pull Tensioning

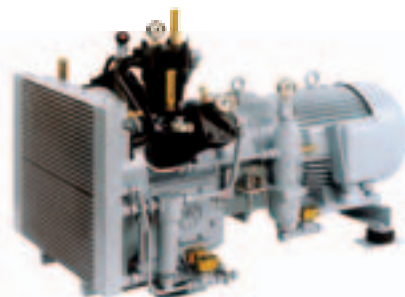
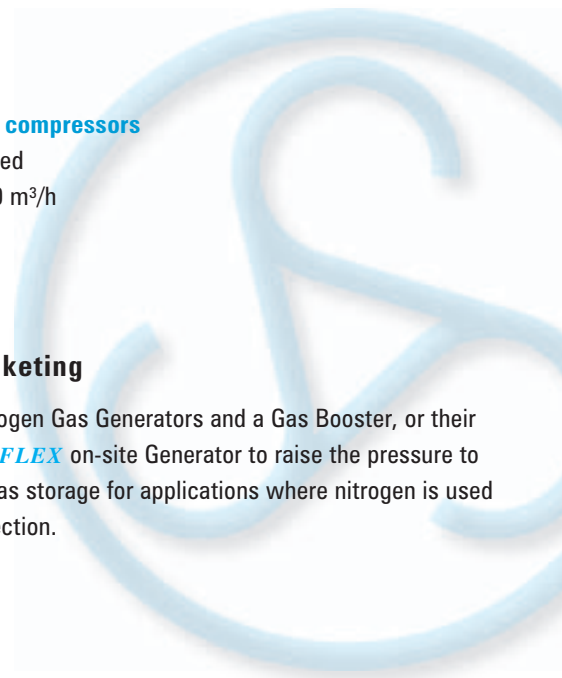
Sauer provide the high-pressure air compressor, or as an alternative a complete nitrogen generation high-pressure gas system.

High-Pressure Nitrogen Gas System

- Nitrogen gas membrane generator
- + 98% gas purity
- multi-stage oil-lubricated piston booster
- 300 bar 170 Nm³/h
- HP gas dryer
- 300 bar gas storage system
- complete electrical control system

WP 5000 High-Pressure Air Compressor

- 4-stage oil-lubricated piston compressor
- 300 bar 150m³/h
- water-cooled compressor
- HP air dryer
- complete electrical control system
- 300 bar air storage system



■ Main and Engine Emergency Start

Air compressors for both main-engine starting and emergency start with final pressure of up to 40 bar has long been, and continues to be Sauer's traditional field of activity for International Shipping.

Air-cooled

- 2-stage up to 40 bar 80 m³/h
- 3-stage up to 45 bar 360 m³/h

Water-cooled

- 2-stage up to 30 bar 430 m³/h

In an emergency where 'black start' or 'dead platform' engine starting is needed, Sauer can offer a complete diesel driven air-start compressor system if requested also in ex-proof design.



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