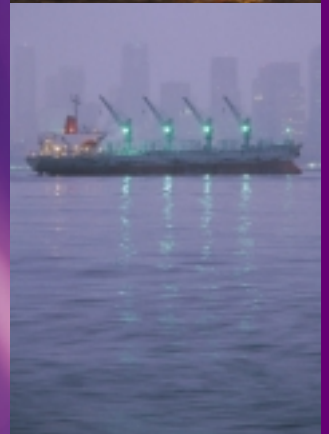




Compressors for Offshore and Marine Applications



Intelligent Air Technology



Air and Water Cooled Oil Free Compressors

CompAir. The name that stands for quality

There's only one thing more impressive than the quality and reliability of our marine and offshore compression systems, and that's the conditions they have to work in.

Across the globe, on oil platforms, warships, submarines, merchant vessels and ships from every nation, you will find CompAir air compression systems hard at work.

Since 1898 we have been designing, manufacturing and installing compressed air and gas systems for these specialist markets and today our name is synonymous with the high standards of quality and long term support capabilities.

Our unique range of seawater, freshwater and air cooled high, medium and low pressure air and gas compression systems comply with all internationally recognised approval standards. We are accredited holders of ISO 9001 and also hold approvals from major classification societies, amongst others; Lloyds Register, Det Norske Veritas, RINA and The American Bureau of shipping.

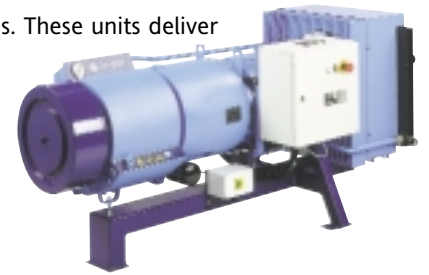
Demanding environments require demanding solutions. Our research, development and engineering expertise give us an unrivalled flexibility in being able to configure specific compressor systems, tailor made exactly to our customers' requirements.



Screw, Vane and Piston Compressors for Offshore Duty

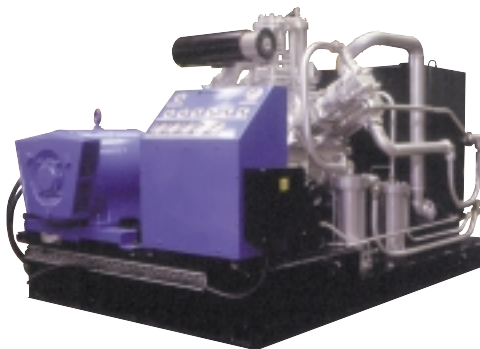
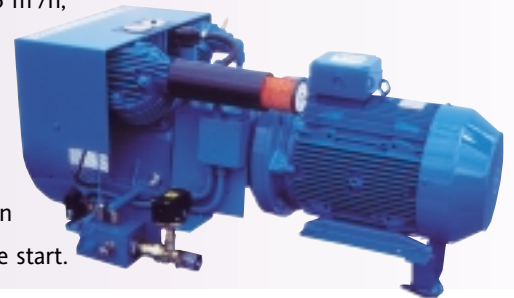
Screw and vane compressors to supply utility air for offshore installations. These units deliver

up to 2562 m³/h with pressure to 14 bar.



CompAir HAB crash frame breathing air compressor set, available in charging rates up to 52m³/h. Vertically mounted silenced sets are available where low noise transmission is required.

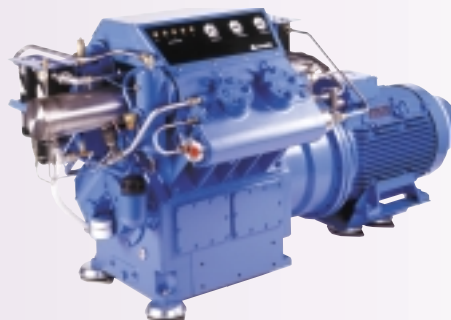
H5200 air cooled compressors at pressures up to 40 bar and flow rates to 65 m³/h, with DC/AC motors or engine drive. Suitable for black start, main start and engine start.



The 6 cylinder air cooled H5450/70 range is configurable from 2 to 5 stages of compression and flow rates up to 800 m³/h.

The compressor is particularly suitable for offshore seismic surveying typically at 250 bar or for storage at 350 bar.

Water cooled compressors at pressures from 30 bar to 414 bar and flow rates to 313m³/h, with DC/AC motors or diesel engine drive. Machines in this range cover a wealth of applications from large diesel start to motion compensation. Direct sea/fresh water and closed loop cooling.





Total Compression Capability

Main Engine and Auxiliary Starting Air

Typically all naval and merchant vessels, to comply with marine regulations require at least two compressors for main engine start.

Our range of small footprint, easily maintained and user friendly reciprocating compressors offer flexible and versatile solutions; with a choice of air, freshwater and direct seawater cooling. The 30-40 bar main starting and topping up systems are designed to withstand all of the rigours and challenges of any demanding marine environment. For Naval vessels this can include shock requirement of up to 320G. Captive marine mounts are fitted as standard, along with a choice of electric motors, diesel or petrol engine drives. We also offer electric starters and control panels, many of which can be PLC controlled along with filters, dryers and after coolers. In fact all your requirements for a complete system.





Emergency Starting Air

Survey Regulations demand that an emergency compressor is totally independent of all other systems. In situations where 'black start' or 'dead ship' main engine starting is required CompAir have a broad range of solutions. For emergency start when ship or platform power supply has failed we would recommend a complete CompAir air start system, utilising a diesel driven air cooled compressor. With a wide selection of packages your vessels engine start requirements are easily matched.

Control and General Service Air

Whatever your requirements, CompAir can supply a system from our range of reciprocating, rotary screw and rotary vane compressors which can be supplied as air or water cooled, lubricated or oil free packages.

Where the quality of the delivered air is vital CompAir can provide a complete range of filters and dryers to meet all requirements.

In addition, CompAir can supply control panels which allow the crew not only to control, but also monitor the compressor's performance via an electronic PLC card. This simple logic controller allows for the alteration of drain cycles and offers complete machine monitoring and protection.

Breathing Air

For vessels and offshore platforms with a requirement for breathing air, it is vital to use a reliable high pressure breathing air compressor capable of filling cylinders and operating under the most arduous conditions.

The CompAir series breathing air sets are ideally suited for this purpose and are specifically configured to undertake these tasks. The cylinder configuration results in exceptionally high levels of stability with relatively low operating noise levels. Cooling can be by air, freshwater or seawater; add to this the range of small, lightweight, portable and frame mounted BA sets with choice of prime mover including silenced diesel, petrol, electric and hydraulic.

Breathing air always has to be safe, cool and free from any noxious substances. Using our own 5 stage filtration units and air purity monitoring systems means that all our air and water cooled compressors offer this security, supplying air to internationally recognised standards. No matter what the application, from ocean liners, supertankers, aircraft carriers to oil platforms, CompAir guarantee the finest and most cost effective solution.



Specialist Air and Gas Applications.

The naval, marine and offshore industries present their own individual niche requirements for compressed air and gases. At CompAir we provide a whole host of solutions and a few examples of the specialist applications are outlined below.

Inert Gas Blanketing and Generation

When required to safeguard bulk cargoes it is usual to fill the unused space in the storage tank with an inert gas - most commonly Nitrogen.

CompAir can supply a range of highly specific Nitrogen generators, boosters and storage facilities to enable easy Nitrogen blanketing. Improving gas generation, CompAir have developed an integral compressor and gas membrane system that supplies pressurised Nitrogen directly from atmospheric air. Flameproof equipment is available for hazardous environments.

Seismic Surveying

In instances where seismic air is required for underwater geological surveys, CompAir's air and water cooled systems provide high pressure air to create the requisite shock levels for measurement and mapping purposes.

Motion Compensation

Drill string compensators are designed to nullify the effect of the drilling platform or vessel heave on the drill string or other hook supported equipment. The compensator comprises of a number of compression loaded hydraulic pneumatic cylinders that are supplied with high pressure air or Nitrogen from receivers charged by a CompAir compressor. As the platform or vessel moves the compensatory allows for the drill hook to remain in a fixed position relative to the sea bed. The CompAir four stage water cooled compressor has become the industry standard for this gruelling application.





Buoyancy Control

Where water needs to be evacuated from submerged buoyancy tanks, CompAir has the compressor solution suitable for the duty, from intermittent to continuous operation.

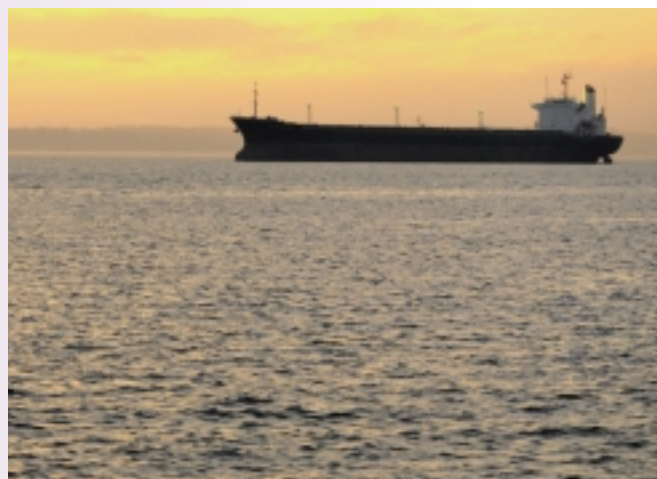
Naval Defence

Since the beginning of this century CompAir has been supplying air compression packages to the world's navies. They are an integral part of weapons and submarine ballast systems, as well as other on-board pneumatic systems, general service and breathing air.

Continuous development of higher flow rate, integral membrane drying systems and low magnetic signature compressors have ensured that the CompAir brand remains at the forefront of this technology.

Naval compressors may be specified to be constructed from high strength Spheroidal Graphite iron with specialist deck mountings to ensure complete integrity and to withstand shock level requirements of up to 320G, and with deeper oil sumps to allow for the excesses of pitch and roll experienced by naval vessels during military operational situations.

From frigates to mine hunters, submarines to aircraft carriers, defence contracts demand the very best of manufacturing systems. They also require a high level of after sales support. CompAir continues to service, refurbish, maintain and support compressor systems now in service for several decades. We are committed to continue this level of service whilst extending our development to suit the future requirements of today's navies.



Intelligent Air Technology

Compressed air solutions for every application

Compressors

0.1 - 43m³/min
0.75 - 450kW
up to 414 bar g

Lubricated

Rotary Vane
Single Stage Screw
Speed Regulated Screw

Piston
Portable

Oil-Free

Two Stage Screw
Water-Sealed Screw
Piston
Portable

Complete Accessories Programme

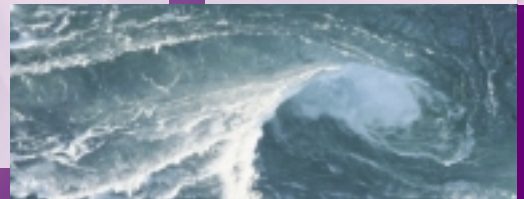
Filters and Dryers
Cooling Systems
Heat Recovery
Condensate Management
Air Receivers
Multi-Set Controllers
Lubricants

Value Added Services

Air Audit
Performance Reporting
Utility Air
Performance Contracting

Complete Service for Compressed Air Technology

Engineering of Complete Compressor Stations
Local Service Centres
Guaranteed Parts Availability



www.CompAir.com
Email sales@compair.com



CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.

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CompAir is an Invensys company