



Breathing Air Systems



Intelligent Air Technology



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Nothing less than total dependability from the recognised world leader

CompAir high pressure compressed air systems have been perfected over 100 years of continuous development, to become the industry standard for reliability.

Our reputation in breathing air, based on tireless research, unrivalled experience and total manufacturing quality, is recognised as our most valuable asset by safety professionals and divers who accept nothing less than total dependability. That's why CompAir are the prime source in the demanding fields of safety and commercial diving worldwide.

The new CompAir Breathing Air Range is designed to extend that reputation even further. Based on proven CompAir compressor technology, the range is improved with a series of new features:

- enhancing breathing air quality
- extending the choice of units
- enabling the production of custom designed systems

CompAir reliability

Designed at CompAir by some of Europe's leading experts in breathing air compressor technology, each component is precision engineered to maximise performance, minimise wear and extend trouble-free working life.

The compressors, at the heart of every unit, are type tested at the factory and have been run in the field for thousands of hours, to ensure total dependability under the most challenging of conditions.

CompAir breathing air quality

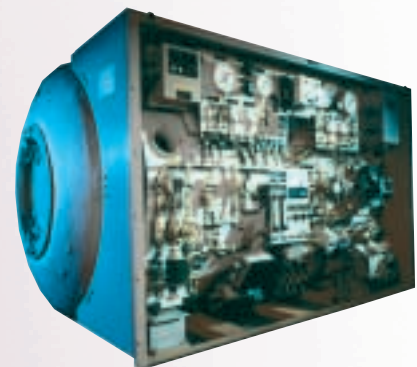
Integral to each breathing set is the unique ReavellSafe multi-stage purification system, which cleans, dries and filters the compressed air with an exceptional level of safety and efficiency. The result is totally dependable breathing air, widely recognised as the safest in the world and exceeding all major international standards.



Underwater welding
(Photo, courtesy of Hydroweld,
Sutton Coldfield, UK)



Front cover: Recovering the space shuttle solid rocket booster
(Photo, courtesy of photographer, Richard Tubridy)



Dependable air for
decompression systems
(Photo, courtesy of MSI - Defence
Systems, Norwich, UK)

Typical Applications

Safety Professionals

Civil Fire Brigades
Industrial Fire Brigades
Airport Fire Brigades
Shipyards
Power Stations
Water Authorities
Plant Hire
Gas Distribution
Hazardous Material Handling
Prison Services
Nuclear Industry
Petrochemical Industry
Oil Refineries
Oil Rigs
Armed Forces
Offshore Survival Training
Merchant Navy

Diving Professionals

Dive Companies
Dive Shops
Dive Centres
Dive Clubs
Hotel Complexes
Dive Support Vessels
Police Search Units
Subsea Suppliers
MOD Dockyards
Offshore Companies
Dive Boat Builders
Dive Charter Companies





Total Compression Capability

CompAir offer a wider-than-ever choice

The complete range provides the widest choice of multi-stage breathing air compressors to meet your needs:

- Air and water cooled machines
- Standard configurations
- Specially configured packages for unique applications
- An extensive range of ancillaries and back-up

Using a modular design, CompAir breathing air compressor packages are easily configured to precisely match user requirements. Assembling from standard-build modules ensures that every package we deliver is built to the most exacting of requirements, ensuring safe, clean air that exceeds all major international specifications.



Breathing air systems in action

CompAir service and back-up

CompAir, as well as being dedicated to delivering excellence in innovation, design, and quality, is an acknowledged leader in the provision of post-installation technical support and on-site back-up.

Before the delivery of larger installations, a CompAir service engineer will be available to visit your installation site to ensure that the system will commission and operate successfully.

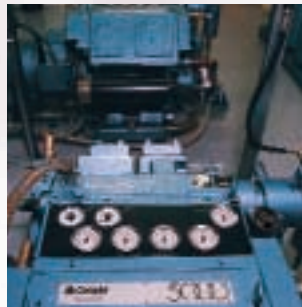
A tailor-made service and maintenance schedule is established for each of our customers.

Our technical engineers will be pleased to advise you on the most suitable breathing air package for your application.

CompAir compressors are sold and serviced in over 120 countries throughout the world.



CompAir water-cooled compressor installed at the UK Fire Services International Training College to charge the 500 breathing air cylinders used for exercises throughout the 550 acre site.



Stoney Cove, Britain's National Inland Diving Centre operate two CompAir water-cooled breathing air compressors. Technical specifications and compressor room layout were designed jointly by engineers from CompAir and Stoney Cove.



A CompAir silenced cabinet compressor, in operation at Flexsys Rubber Chemicals Company, supplying the on-site fire service.



CompAir compressors installed into Derbyshire Fire & Rescue Services emergency support vehicles.



The National Sea Training Centre, one of the UK's leading marine fire education centres, uses a CompAir air-cooled compressor to fill SIEBE Gorman BA sets for student fire fighter training, in simulated environments where temperatures can reach up to 200°C.

Air-Cooled Compressors

CompAir's extensive range of standard air-cooled compressors deliver flows up to 52 m³/h (865 l/min, 31 ft³/min). Capacities up to 500 m³/h are available for specialist applications.

The compressor heart – continuous reliability over a long working life

- Fully balanced V and W configurations ensure low vibration and low noise whilst eliminating the need for special mounting.
- Short piston stroke and low piston speed help maximise the intervals between servicing and extends working life.
- Polymer piston rings reduce wear, increase life and maximise performance.
- Safety valves are fitted to all stages to ensure complete protection.

Silenced cabinets, for high performance at low noise levels

The CompAir range of silenced, air-cooled, breathing air cabinet sets were developed in partnership with some of the world's leading fire services. Designed for critical installations where noise levels as low as 70 dba at 1 metre are required.

Occupying minimal floor space, requiring no rear access and fitting through standard sized doorways, they can be sited for convenient operation and maintenance.

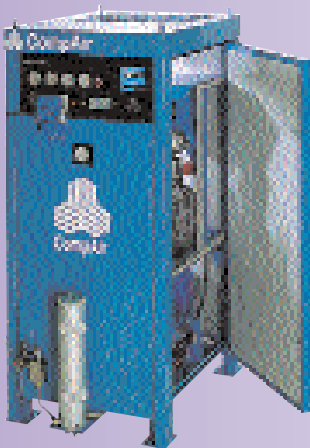
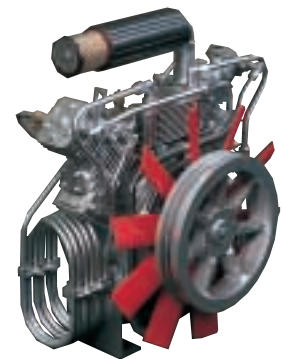
Open frame sets for demanding environments

Ideally suited for permanent or portable installations, the range of frame sets are designed for use in all environments where silencing is not a primary consideration. The rugged construction permits safe transportation allowing reliable operation without risk of damage.

The frame and belt guard assembly encloses moving parts and hot surfaces to ensure operator safety.



Two models in the extensive CompAir Air Cooled Compressor Range. There is a comprehensive option list to meet your specific requirements.



Water-Cooled Compressors

Providing high pressure at high performance levels, demands an extreme tolerance to temperature and wear. Delivering air up to 414 bar g and with charging rates up to 157 m³/h (2150 l/min, 76 ft³/min) the water-cooled range of V configuration compressors gives an unrivalled level of performance and ease of use.

The units are designed and manufactured for continuous running. With the water jacket running through the compressor, cooling efficiency is enhanced, enabling prolonged operation in high ambient temperatures. The balanced V configuration reduces noise and increases stability, eliminating the need for special and costly foundation requirements.

CompAir water cooled compressors are renowned for their reliability and long service intervals. Each compressor is built for ease of maintenance – individual valves, for example, can be changed in just 5 minutes without breaking pipes or seals.

...built for continuous, trouble free performance

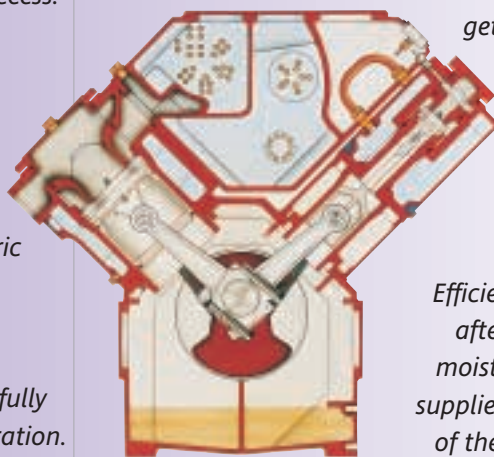
Easy and quick maintenance access.

90° Vee configuration eliminates out of balance forces.

Only one combined concentric suction/delivery valve per cylinder.

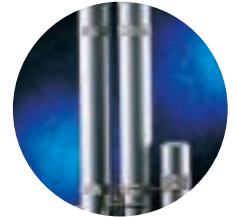
Running gear is carefully balanced to avoid vibration.

Headless cylinder design allows cooling water to get closer to valves.



Efficient intercoolers and aftercooler including moisture separators, are supplied as an integral part of the compressor block.

Ancillary Equipment



Filtration Banks



Dewpoint Monitor and Control



Air Quality Tester



High Pressure Air Storage



Charging Panels

Intelligent Air Technology

Compressed air solutions for every application

Compressors

0.1 - 43 m³/min
0.75 - 450 kW
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



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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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