



Groundbreaking Compressed Air Solutions

For a Sustainable Future

iConn 



Efficiency. Innovation. Connectivity.



CompAir – Your Trusted Partner



Setting Standards in Technology Advancement

CompAir has been at the forefront of compressor design and manufacture for over 200 years and is committed to quality, innovation and understanding our customers' individual business and operational requirements. Not only meeting but exceeding quality and production objectives for industries across the globe.

Our customers' needs drive us – we are developing technologies and tailoring innovative solutions directly impacting their businesses, delivering the results that matter to them. We are your partner, not just an equipment supplier. Rely on CompAir to keep your systems running cost-effectively and at optimum performance day after day.

Optimise Efficiencies with Single Source Supply

Working with a single-source supplier will help reduce costs, streamline administrative processes, and improve operational efficiencies – even helping to drive innovation and growth.

CompAir delivers innovative and mission-critical compressed air solutions from a comprehensive portfolio of technologically-advanced products and services that enhance energy efficiency and productivity at every stage of your processes, even in the most complex conditions. Our tailored warranties are some of the most generous on the market and cover not just the air compressor, but all of the downstream ancillary equipment too.





Customer Feedback

After one year of operating the new system, Jaguar reported that the energy savings have exceeded the original calculations, resulting in a faster payback period than anticipated of less than two years.

Jaguar, England



GERMAN
ENGINEERING
DESIGN&MANUFACTURE

Engineering Excellence – the Power to Innovate

Advanced compression technologies are at the heart of every CompAir compressor. It is therefore vital that we keep the design and manufacture in-house, utilising the latest CNC machinery and online laser technology to develop our airends – our compressor’s core component. This engineering excellence ensures that our customers receive consistent, high-quality, low-cost air.

In-house design and manufacture doesn’t stop with the airend, though. CompAir also designs, develops and manufactures a wide range of innovative and highly efficient air treatment technologies worldwide. From condensate drains and filters to a portfolio of dryers, hydrogen generators and heat treatment technologies. Technologies that promote and enhance our systems’ efficiencies for our customers’ benefit.



Shifting the Energy Balance for a Sustainable Future



effiDRIVE IES2
COMPLIANT

With the unprecedented global rise in energy costs, there has never been a better time to review and re-evaluate the efficiency of compressed air systems. **If energy has doubled in price, you can now save twice as much with CompAir.** Our continuous innovation delivers an extensive range of extremely reliable, energy-efficient compressors, accessories, management and air treatment solutions.

Groundbreaking oil-free and oil-lubricated compressor technologies that deliver best-in-class performance and efficiencies, with a return on investment typically in less than 12 months – these cutting-edge developments from CompAir can save tens of thousands a year in energy costs alone.

The all-new regulated speed D-Series compressors already achieve up to 35% energy savings over traditional fixed speed and now feature a high efficiency “effiDrive” Power Drive system that exceeds the class IES2 EN61800-9 requirements and assures high energy savings across a broad flow range.

Add to that the development of our own downstream equipment such as the revolutionary regenerative sub-freezing refrigerated dryer delivering ISO Class 3 air. These -20°C PDP regenerative refrigeration dryers are the first dryer technology that provides a -20°C (-4°F) pressure dew point at 70% lower energy costs.



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Customer Feedback

We needed a new compressed air solution to deliver improved operational efficiencies, actually reducing our energy costs by 25% and accommodated in the very tight available space on site.

Einbecker Brewery, Germany

A Greener Approach

With carbon (CO₂) emissions causing the greenhouse affect and accelerating global temperatures, CompAir are dedicated to delivering compressed air for a sustainable future in all our technologies.

Installing an ULTIMA air-cooled compressor delivers an annual reduction of 52 tonnes of direct CO₂ emissions compared to a conventional compressor. That's equivalent to planting 5,207 trees! Oil-lubricated too delivers impressive results, with a **“FourCore”** L200[®] model reducing greenhouse gas emissions equal to 70,000 miles driven by a passenger car in 12 months.

Measure – Manage – Improve

But a new compressor may not always be the answer. Significant savings can be made by adopting a **“Measure – Manage – Improve”** approach. CompAir's Air Assessment Service looks at all aspects of a compressed air system's performance, including power and flow data, pressure measurement, leak detection and heat recovery – powerful diagnostics that can seriously affect your bottom line.

IIoT connectivity increases sustainability

Industry 4.0 technology is creating real opportunities for compressed air users, with predictive maintenance and real time data analytics and insights delivering vastly improved compressed air systems performance.

These insights not only help highlight immediate issues, but also enable operators to forecast for potential future problems.

Predictive maintenance models based on real-time data are proven to help reduce energy consumption and wastage, improve process efficiencies and limit risks.

Groundbreaking Technological Developments

We are dedicated to improving performance and efficiency for our customers, at the same time lowering the impact on our environment.

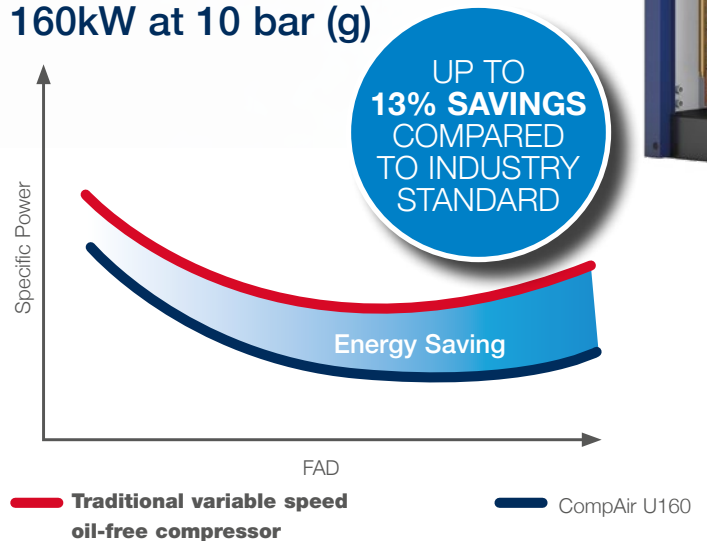
Setting Ultimate Standards in Oil-Free Technology Advancement

The Ultimate Performance & Efficiency

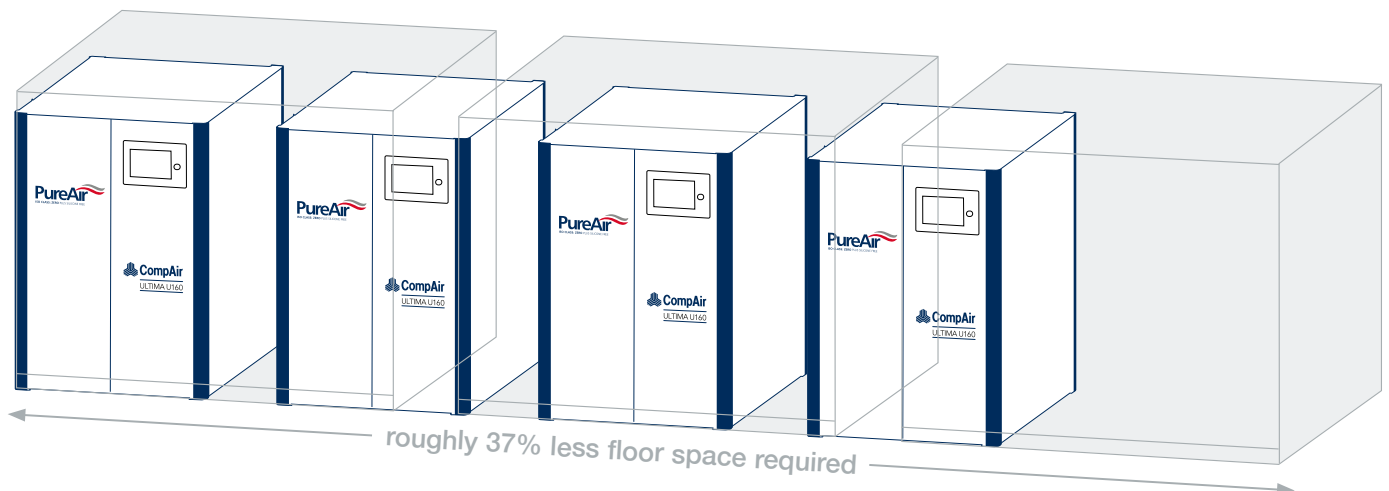
No matter what the application, CompAir has the perfect oil-free solution. Take ULTIMA, for example. The unique design of the ULTIMA compressor range delivers outstanding efficiency with up to 13% power savings versus traditional oil-free technologies. Considering that the highest cost in a compressor's lifecycle is the energy to run it, these energy savings have a significant impact.

Ultima has allowed us to combine the ultimate performance with the ultimate efficiency and still deliver a footprint 37% smaller than a conventional two-stage oil-free compressor.

Efficiency - 160kW at 10 bar (g)



Best-in-Class footprint – 37% LESS space required





Customer Feedback

Two new Ultima compressors increased energy efficiency, with high levels of air purity due to oil-free technology, and an energy cost saving of £58,000 in the first year.

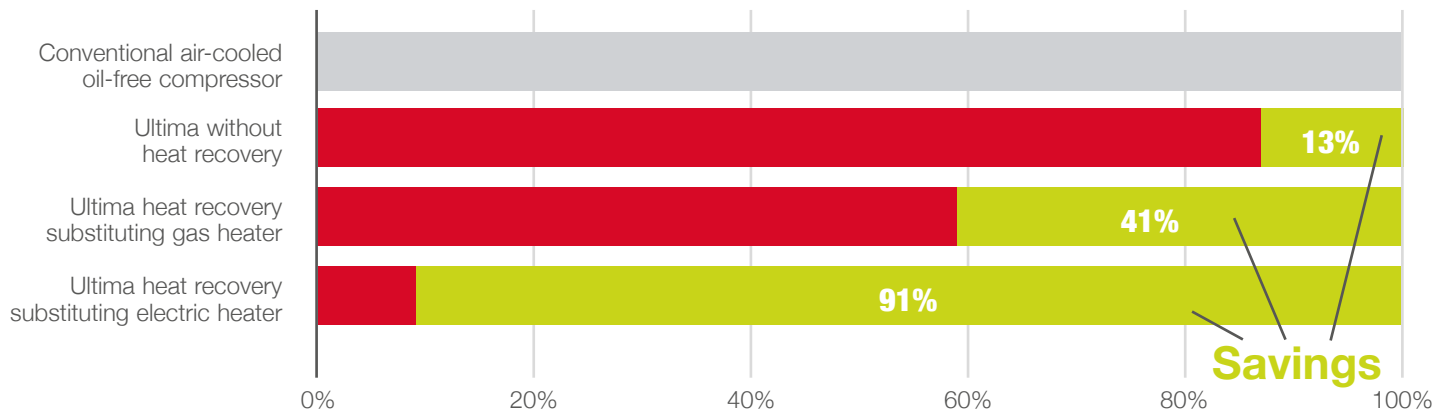
Accord Healthcare, England

Ultima Air Cooled

The unique patented design delivers numerous benefits to compressed air users:

- HIGHEST EFFICIENCY LEVELS - 13% SAVINGS POSSIBLE
- OPTIMAL PERFORMANCE AT ANY LOAD
- 37% SMALLER – BEST-IN-CLASS FOOTPRINT
- QUIETEST COMPRESSOR IN ITS CLASS
- FULLY UPGRADABLE FROM 75kW to 160kW
- 45% LESS POWER CONSUMPTION AT IDLE
- 100% HEAT RECOVERY
- HIGHEST LEVELS OF CLASS 0 QUALITY AIR

Comparison of annual running costs



* Operation @ 20m³/min 8 bar, 4,000 hours per year, electricity price 30 ct/kWh, gas price 10 ct/kWh

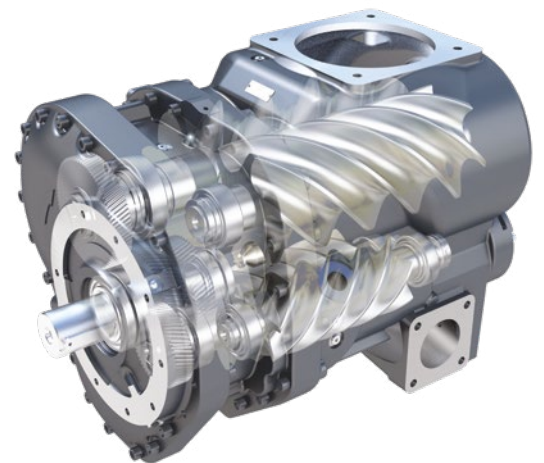
Best-in-Class Oil-Lubricated Technologies



When it comes to oil-lubricated technologies, CompAir is a well-known industry leader for quality and reliability with our powerful and efficient L-Series range. Our centre of excellence in Simmern, Germany has designed and engineered a new, patented technology that offers best-in-class energy efficiency.



Our application engineering team have developed a premium efficiency 2-stage model for fixed and regulated speed compressors using the new technology of a compact double stage airend. Four Core's unique airend design incorporates 4 gears with a **"2-step drive gear"** system located in a single, semi integrated package, allowing flexible rotor speed adjustment, differing from traditional 2S compressors using a 3 gear configuration where separate adjustment of gear ratio from the 1st and 2nd stage is not possible, providing a compact package with high energy savings. These machines are the same size as a 1-stage machine due to the new airend technology.



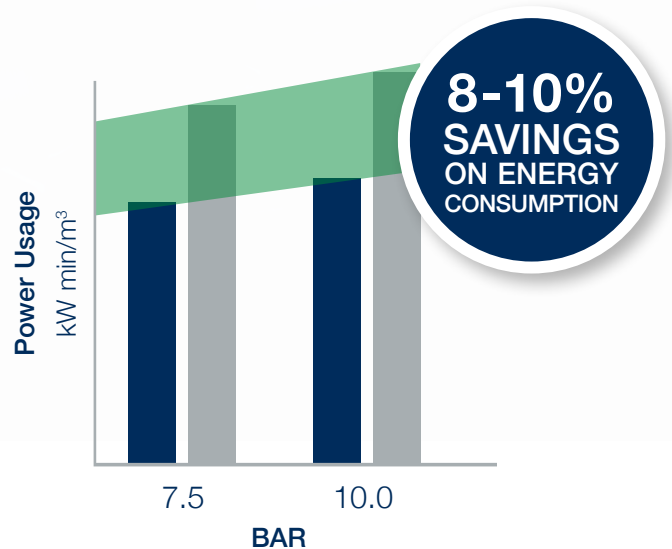
effiDRIVE **IES2**
COMPLIANT



Customer Feedback

The installation will enable savings of some, one million kilowatt hours of current per year, which would cover the annual energy requirements of around 330 homes.

Schaeffler KG, Herzogenaurach



- New CompAir FourCore Technology
- Comparable Single Stage Technology

FourCore technology – the power of 4!

- **NEXT GENERATION FOURCORE AIREND**
 - Very compact, very low weight, highest efficiency
- **IMPROVED EFFICIENCY OF 8-10% COMPARED TO CONVENTIONAL SINGLE STAGE**
 - Best-in-Class premium efficiency 2-stage oil-lubricated compressors
 - 160-250kW power range
 - **Payback times can be less than a year**

- **ONE OF THE SMALLEST FOOTPRINTS IN THE 2 STAGE MARKET**
 - Same size as a single-stage compressor
 - Up to 20% smaller than comparable 2 stage
 - Greater efficiency and performance
- **UNIQUE IN-HOUSE DESIGN & MANUFACTURE**
 - Unique and optimised, ultra-efficient FourCore airend technology
 - All the benefits of 2 stage compressor

Support & Aftersales Service

You're in Safe Hands

Free extended warranties covering oil-free and oil-lubricated compressed air solutions ensure our customers' peace of mind. Some of the most generous warranties in the industry guarantee a quality service with correct maintenance, budgeting and cost of ownership.



Your benefits: It All Adds Up to Peace of Mind

Lower Cost of Ownership

Assure Service and Warranty Agreements provide the most cost-effective solutions based on your customised maintenance strategy.

Quality Results

Factory-trained technicians allow you to focus on your core business while they take care of your compressor system.

Increased Uptime

Service & Warranty Agreements help decrease unplanned downtime and costly production interruptions.

Efficient Energy Use

Peak system efficiency is achieved through properly performed maintenance and inspection.

Assure Service agreements ensure an extended warranty. Depends on the duration.

Genuine CompAir parts and lubricants ensure that compressed air plant reliability and efficiency is maintained at the highest standards. CompAir spare parts and lubricants are distinguished by:

- Long service life, even under harshest conditions
- Minimum losses contributing to energy savings
- High reliability improves plant up-time
- Products manufactured with the strictest Quality Assurance Systems

Tailor-made installations

The increasing complexity of production facilities and system requirements, along with higher energy costs and carbon and emissions levies and taxes, makes the correct assessment and specification of compressed air solutions vital. The performance and efficiency of compressed air systems affect the environmental impact of your business and your bottom line.





iConn Industry 4.0 solution

Our compressors and downstream equipment are equipped with iConn as a standard. iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to our compressed air users. It enables accurate production planning and total peace-of-mind protection, generating insight and statistics that keep users informed on performance while highlighting potential issues before they become a problem.

- ✓ Advanced remote analysis
- ✓ Predictive – evaluates historic data
- ✓ Maximises energy efficiency
- ✓ Optimises compressor performance
- ✓ Reduces downtime
- ✓ Works as an open standard
- ✓ Free on new compressors – can be retrofitted
- ✓ Proactive maintenance



Innovation & Engineering Excellence



A leading global manufacturer of a wide range of world-class compressed air solutions, CompAir is dedicated to providing a complete solution for our industry partners. From the latest advances in oil-free and oil-lubricated technologies to a complete range of downstream equipment, air treatment and accessories.

An extensive network of dedicated CompAir sales companies and premium partners across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

CompAir has consistently been at the forefront of compressed air systems development, culminating in some of the most energy efficient and low environmental impact compressors on the market today, helping customers achieve or surpass their sustainability targets.

CompAir compressed air product range

Advanced Compressor Technology Lubricated

- Rotary Screw
 - > Fixed and Regulated Speed
- Portable

Oil-Free

- Water Injected Screw
 - > Fixed and Regulated Speed
- Two Stage Screw
 - > Fixed and Regulated Speed
- Rotary Scroll
- Ultima®

Complete Air Treatment Range

- Filter
- Refrigerant and Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer
- Nitrogen Generator

Modern Control Systems

- CompAir DELCOS Controllers
- SmartAir Master Sequencer
- iConn - Smart Compressor Service

Value Added Services

- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

- Custom Engineered Solutions
- Local Service Centres
- Genuine CompAir Parts and Lubricants