

Gardner Denver

Groundbreaking Compressed Air Solutions

For a Sustainable Future



iConn



Efficiency. Innovation. Connectivity.



Gardner Denver – Your Trusted Partner

Setting Standards in Technology Advancement

Gardner Denver 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 Gardner Denver to keep your systems running cost-effectively and at optimum performance day after day.

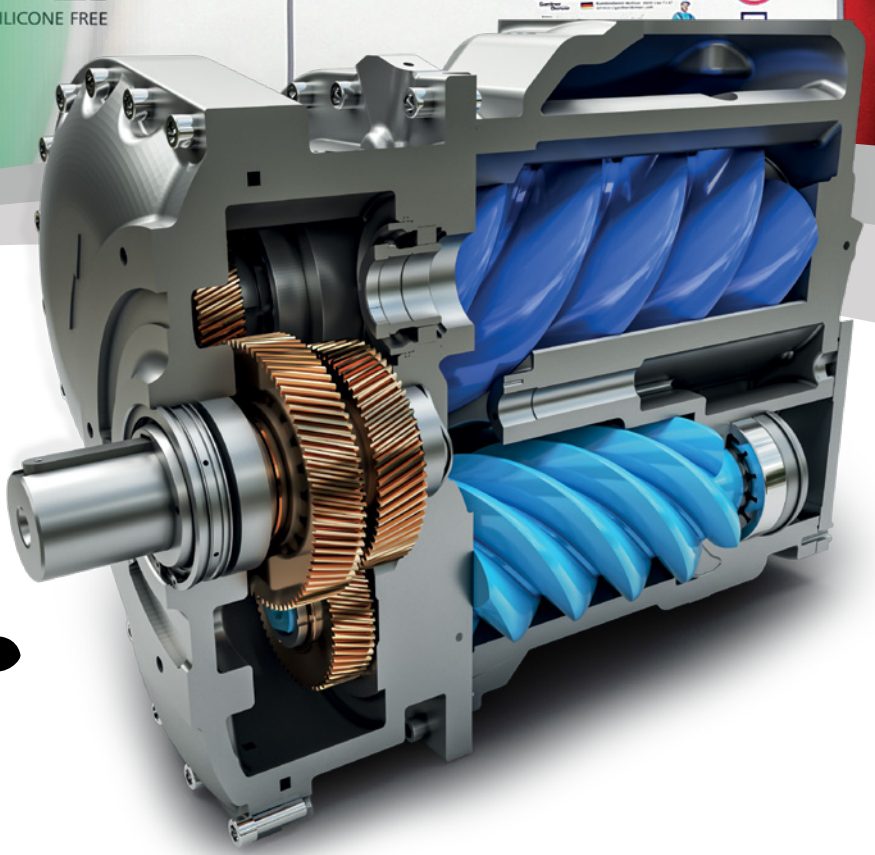
Optimise Efficiencies with Single Source Supply

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

Gardner Denver 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.

PROTECT 10 years
Extended Warranty for GD Compressors





GERMAN ENGINEERING DESIGN & MANUFACTURE

Engineering Excellence - the Power to Innovate

Advanced compression technologies are at the heart of every Gardner Denver 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. Gardner Denver 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.

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



Shifting the Energy Balance for a Sustainable Future



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 Gardner Denver.** 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 Gardner Denver can save tens of thousands a year in energy costs alone.

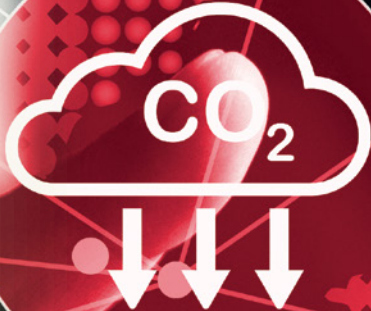
The all-new regulated speed EnviroAire compressors already achieve up to 35% energy savings over traditional fixed speed and now feature a high efficiency “effiDrive” Power Drive system that exceeds the class IES2 EN61800-9 requirements and assures high energy savings across a broad flow range.

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.

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, Gardner Denver 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”** ESM/VS 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. Gardner Denver'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

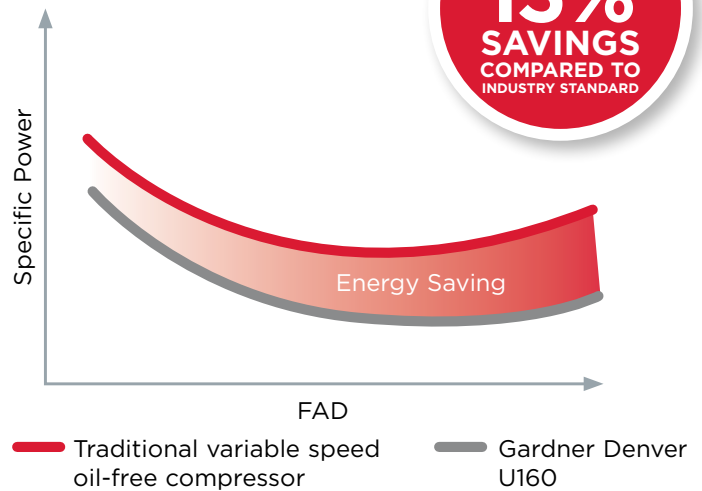
The Ultimate Performance & Efficiency

No matter what the application, Gardner Denver 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.

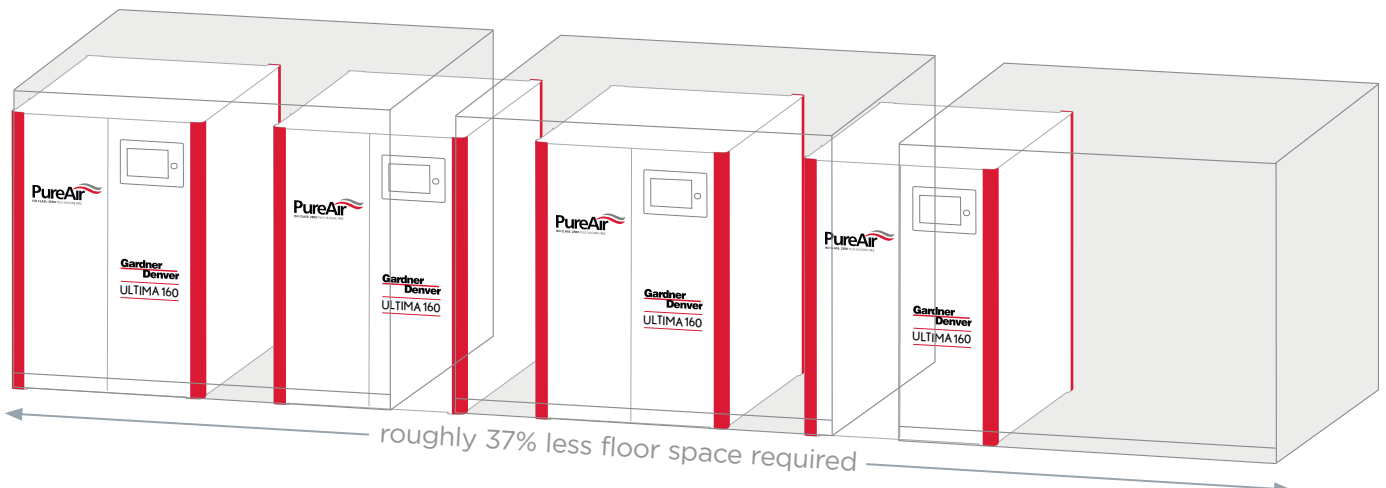
Ultima has allowed us to combine the ultimate performance with the ultimate efficiency and still deliver a footprint 37% smaller than a conventional two-stage oil-free compressor.

Efficiency - 160kW at 10 bar (g)

UP TO 13% SAVINGS
COMPARED TO INDUSTRY STANDARD



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





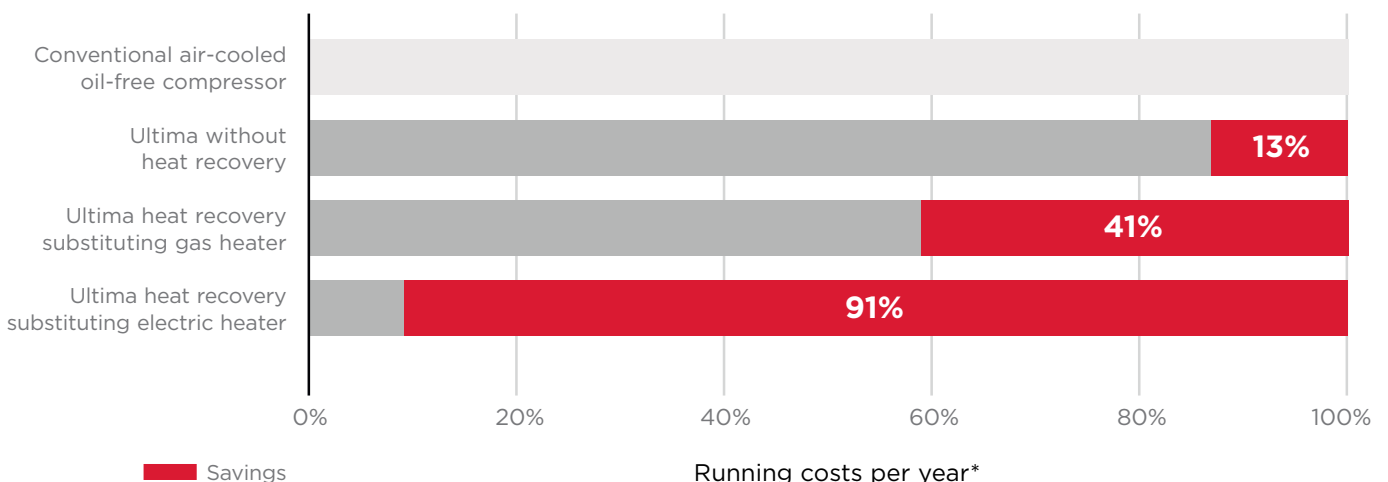
Ultima Air Cooled

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

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

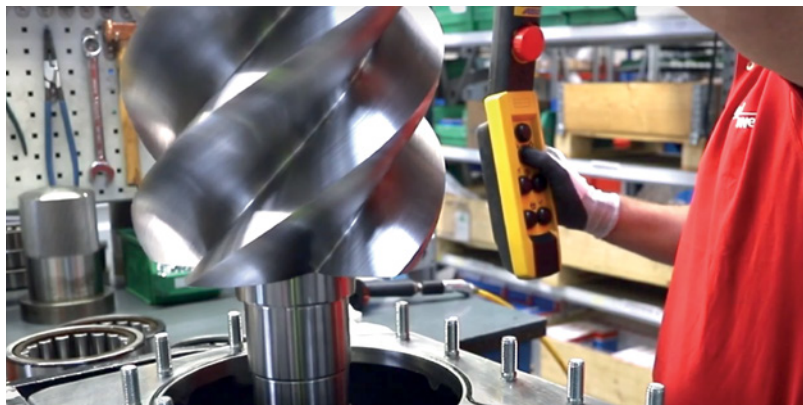


*Operation @ 20m³/min 8 bar, 4.000 hours per year, electricity price 30 ct/kWh, gas price 10 ct/kWh

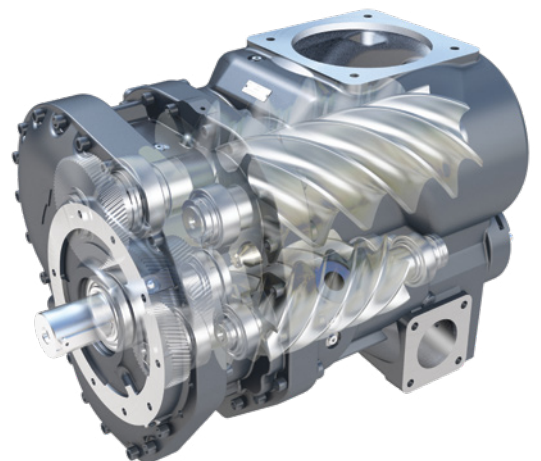


Best-in-Class Oil-Lubricated Technologies

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



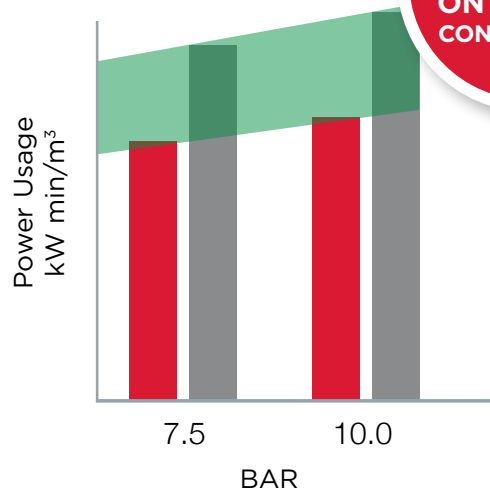
Our application engineering team have developed a premium efficiency 2-stage model for fixed and regulated speed compressors using the new technology of a compact double stage airend. What's unique about this design is that the airend has one motor and four rotors located in a single, semi-integrated casting. This differs from traditional 2-stage compressors, 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



8-10%
SAVINGS
ON ENERGY
CONSUMPTION



- New Gardner Denver 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



The best investment protection you can get



Extended Warranty for GD Compressors

10 Years Warranty!

The Gardner Denver Protect 10 Warranty and Service programmes will protect you up to 44,000 hours/10 years ¹. It is one of the most generous warranties available in the industry affording you total piece of mind.

Your benefits:

- The Protect 10 warranty is totally free to the compressor owner ²
- The Gardner Denver authorised service provider will deliver a guaranteed quality of service
- The Protect 10 service agreement underpinning the warranty will enable accurate maintenance, budgeting and cost of ownership
- The use of genuine Gardner Denver parts and lubricants will maximise compressor life and efficiency

¹ Warranty duration is limited to 6 years/44,000 hours on the whole package, 10 years/44,000 hours on the air end. Whichever is the soonest.

² subject to Terms & Conditions

Compact design – easy installation

The small footprint reduces the space required for installation.

Easy servicing

The design of these packages ensures that the service points are readily accessible. The enclosure side doors are hinged and removable to allow complete access to all service points. The reduced number of moving parts further lowers the maintenance costs.

Gardner Denver genuine spare parts

Enjoy complete peace of mind.

Genuine Gardner Denver parts and lubricants ensure that compressed air plant reliability and efficiency is maintained at the highest standards. Gardner Denver 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





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



Global Expertise

The GD rotary screw compressor range from 2.2 – 500 kW, available in both variable and fixed speed compression technologies, are designed to meet the highest requirements which the modern work environment and machine operators place on them.



The oil-free EnviroAire range from 15 – 315 kW provides high quality and energy efficient compressed air for use in a wide range of applications. The totally oil-free design eliminates the issue of contaminated air, reducing the risk and associated cost of product spoilage and rework.



A modern production system and process demands increasing levels of air quality. Our complete **Air Treatment Range** ensures the highest product quality and efficient operation.



Compressor systems are typically comprised of multiple compressors delivering air to a common header. The combined capacity of these machines is generally greater than the maximum site demand. To ensure the system is operated to the highest levels of efficiency, the **GD Connect** air management system is essential.



gdcompressors.eu@gardnerdenver.com
www.gardnerdenver.com/gdproducts

For additional information please contact Gardner Denver or your local representative.

Specifications subject to change without notice.