

Next Generation Oil-Free Rotary Screw Compressed Air Systems

90-160kW



Gardner
Denver

Ingersoll Rand

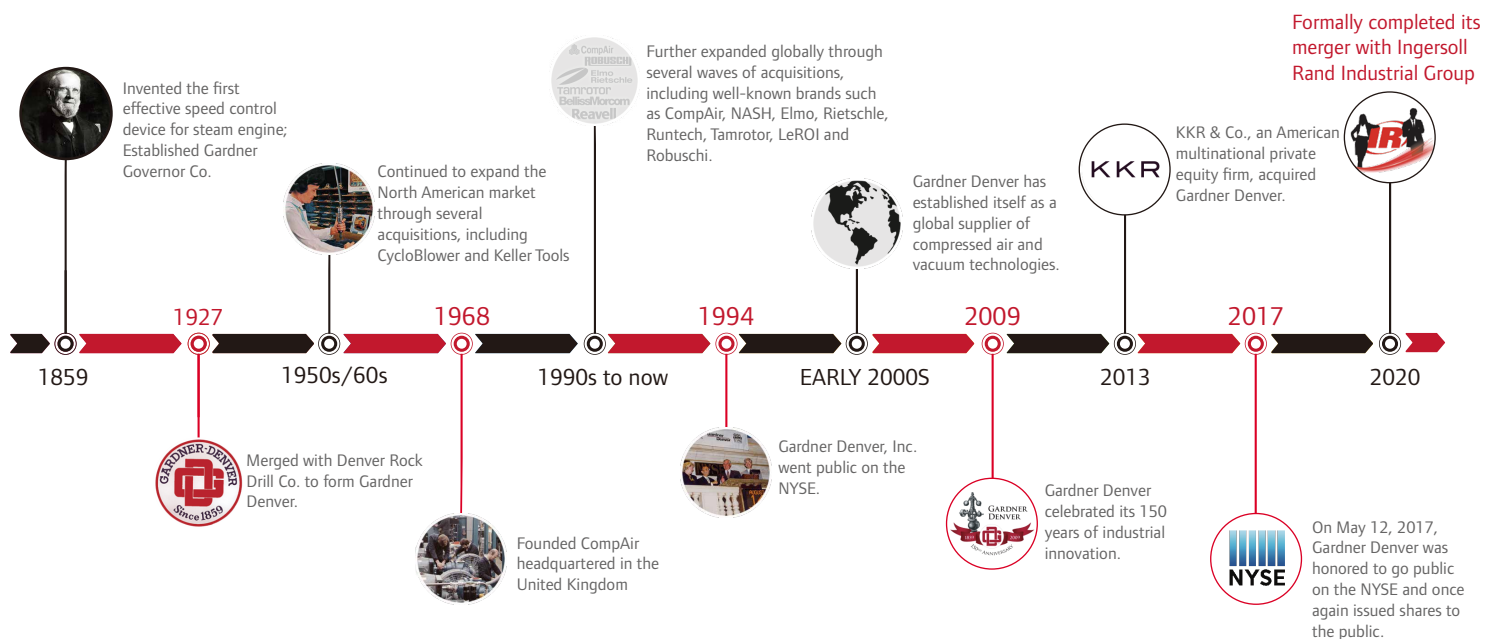
Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to Making Life Better for our employees, customers, shareholders, and planet. Customers lean on us for exceptional performance and durability in mission-critical flow creation and industrial solutions. Supported by over 80+ respected brands, our products and services excel in very complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity, and efficiency. For more information, visit www.IRCO.com.

Gardner Denver

Founded in 1859, Ingersoll Rand, Inc. Gardner Denver focuses on developing innovative products and engineering solutions that solve operational challenges for our customers. With global collaboration, strong customer service and in-depth expertise, we offer reliable, energy-efficient equipment for a wide range of manufacturing and process applications. As of March 1, 2020, The Ingersoll Rand Industrial segment was formally merged with Gardner Denver on March 1, 2020 to form the new Ingersoll Rand.

Now, as a larger and stronger company, we can further provide you with more comprehensive solutions and a broader portfolio of products and services. The new Ingersoll Rand is driven by an entrepreneurial spirit and an ownership mindset to make life better for our employees, customers and those around us.

With the establishment of the new company, driven by Ingersoll Rand's new goals and values, and in line with the Company's multi-brand and multi-channel development strategy, we have integrated and upgraded the existing brands and products of Ingersoll Rand, and launched the newly-designed Gardner Denver air compressors, which cover oil screw air compressors, oil-free air compressors and complete compressed air after-processing products. With abundant products, continuous innovation, and high-quality service, Gardner Denver air compressors are believed to be able to help customers achieve greater success.



Why Choose Our World-Class Oil-Free Rotary Screw Compressed Air System?

You need a reliable, cost-effective solution that complies with the most stringent air quality standards, features industry-leading energy efficiency and is backed by global IoT. That's what you get with our oil-free rotary screw air compressors.

Improve Efficiency and Air Flow

Advanced air compressor air-end and drive component design provide world-class specific power and improved air flow, resulting in reduced energy consumption.

Improve Reliability

Every component in our oil-free compressor system supports maximum reliability for increased productivity, longer equipment life, lower operating costs and higher profitability.

Enhance Environmental Adaptability

Our oil-free compressors demonstrate excellent adaptability and can be used in a wide range of diverse application environments. Customized operating standards for various environmental conditions and optional design features, ensuring reliable operation whether indoors or outdoors, in extreme temperatures or harsh environments.

Reduce Total Cost of Ownership

Intuitive microprocessor controls, easy serviceability and long-life consumables significantly reduce operating, maintenance and service costs over the lifetime of your compressed air system.



ISO 8573-1 Air Quality Class

Quality Class	Oil & Oil Vapor mg/m ³
0	< 0.01
1	0.01
2	0.1
3	1
4	5

Class 0 is the most stringent air class defined by ISO 8573, part 1. Our oil-free compressors are certified Class 0 for no oil content by TÜV to ensure your air quality exceeds specifications.

Oil-Free Compressors Designed for Your Application



Food and Beverage

Product transportation, storage, packing, filling, capping, cooling, coating, cleaning, fermentation and PET blow molding



Pharmaceuticals

Tablet production, coating, mixing, fixation, product filling, packaging, bottling and aseptic application



Electronics

PCB cleaning after production completion, pneumatic component transmission and precision machining



Chemicals

Process air, pneumatic valves, control cylinders, gas separation, pneumatic conveying and inert gas protection



Textile

Pneumatic valve, cylinder control, air jet loom, spinning frame, sewing machine and dust gun



Public Utility

Instrument air, pneumatic valves, control cylinders, fuel purge, reserve air, fuel atomization and air engine

New Generation Host Module

- The newly designed advanced modular airend has a better line design, significantly improving efficiency and achieving better air flow coverage.
- The efficient jacket cooling design reduces the airend temperature and effectively improves the airend energy efficiency.
- The second-stage rotor adopts a stainless steel design, which is suitable for high-temperature operating environments and greatly increases the rotor life.



UltraCoat Super Coatings

- The rotor and base frame surfaces are treated with UltraCoat. After mechanical and chemical treatments, the coating is extremely thin and firmly adheres to the rotor and base frame surfaces.
- The rotor surface is shot peened to increase the roughness, and then the organic high-temperature resin is embedded in the MoS₂ molecular resin to mechanically embed it in the rough surface. It is durable, anti-oxidation and not easy to break.
- Compared with other coatings, UltraCoat has a longer life and can save 10% of the energy consumption.



Triple Tube Parallel Pre-Cooled Tubes

- Distribute compressed air to three separate pipes to reduce pressure loss and balance heat load.
- Avoid using precoolers, greatly reduce exhaust temperature entering aftercooler, and greatly extend aftercooler service life.
- Air-cooled EnviroAire oil-free screw compressors use high-efficiency centrifugal fans to ensure CTD (Cold Temperature Differential) and reduce noise.





Hybrid permanent magnet motor

- The stator coil and permanent magnet rotor of the hybrid permanent magnet motor generate strong electromagnetic force, driving the motor shaft to rotate at different speeds.
- The motor shaft directly drives the direct-connected host male rotor without coupling, reducing the efficiency loss of the transmission part.
- Permanent magnet synchronous motor, excellent protection level IP55, motor energy efficiency IE4 (and energy efficiency can be maintained at IE4 at any speed); with unlimited start and stop function, automatic shutdown at low speed, no unloading process

High-efficiency intake valves

- Gardner Denver's high-efficiency intake valve uses an advanced hydraulic adjustment mechanism to replace the pneumatic adjustment mechanism, which avoids the regular replacement of pneumatic components and reduces unnecessary downtime and maintenance costs.
- It controls loading/unloading through an intake and exhaust combination valve. When loading, the butterfly valve is fully open and the exhaust valve is closed at the same time; when unloading, the butterfly valve is closed, the hydraulic cylinder returns to its original position, and the exhaust valve is driven to open and exhaust.

Advanced intelligent control system

- The Luminance series intelligent controller features an intuitive user interface and enhanced control, functionality, and remote access using a common web browser. It can achieve sequential control of 4 compressors without the need for additional hardware, thereby improving efficiency and achieving stable pressure. Built-in Internet of Things (IoT) function connects to the iConn platform to provide real-time attention and protection of the unit to achieve peak productivity.



Model Parameters

Model	Pressure bar	Capacity m ³ /min	Power kW	Weight kg	Dimensions (L x W x H) mm
EnviroAire 90-7A	7	16.5	90	3384	2547 x 1822 x 2436
EnviroAire 90-8A	8	14.6	90	3384	2547 x 1822 x 2436
EnviroAire 90-10A	10	14	90	3384	2547 x 1822 x 2436
EnviroAire 90-7W	7	16.5	90	3272	2547 x 1822 x 2137
EnviroAire 90-8W	8	14.6	90	3272	2547 x 1822 x 2137
EnviroAire 90-10W	10	14	90	3272	2547 x 1822 x 2137
EnviroAire 110-7A	7	20.1	110	3384	2547 x 1822 x 2436
EnviroAire 110-8A	8	18.2	110	3384	2547 x 1822 x 2436
EnviroAire 110-10A	10	16.5	110	3384	2547 x 1822 x 2436
EnviroAire 110-7W	7	20.1	110	3272	2547 x 1822 x 2137
EnviroAire 110-8W	8	18.2	110	3272	2547 x 1822 x 2137
EnviroAire 110-10W	10	16.5	110	3272	2547 x 1822 x 2137
EnviroAire 132-7A	7	23.7	132	3589	2547 x 1822 x 2436
EnviroAire 132-8A	8	21.8	132	3589	2547 x 1822 x 2436
EnviroAire 132-10A	10	20.1	132	3589	2547 x 1822 x 2436
EnviroAire 132-7W	7	23.7	132	3477	2547 x 1822 x 2137
EnviroAire 132-8W	8	21.8	132	3477	2547 x 1822 x 2137
EnviroAire 132-10W	10	20.1	132	3477	2547 x 1822 x 2137
EnviroAire 160-7A	7	27.8	160	3589	2547 x 1822 x 2436
EnviroAire 160-8A	8	25.9	160	3589	2547 x 1822 x 2436
EnviroAire 160-10A	10	23.7	160	3589	2547 x 1822 x 2436
EnviroAire 160-7W	7	27.8	160	3477	2547 x 1822 x 2137
EnviroAire 160-8W	8	25.9	160	3477	2547 x 1822 x 2137
EnviroAire 160-10W	10	23.7	160	3477	2547 x 1822 x 2137

Model	Nominal Pressure bar	Maximum Capacity m ³ /min	Power kW	Weight kg	Dimensions (L x W x H) mm
EnviroAire VS90-A	10	19.8	90	2805	2547 x 1822 x 2436
EnviroAire VS110-A	10	19.8	110	2805	2547 x 1822 x 2436
EnviroAire VS132-A	10	26.8	132	2874	2547 x 1822 x 2436
EnviroAire VS160-A	10	28.4	160	2874	2547 x 1822 x 2436
EnviroAire VS90-W	10	19.8	90	2700	2547 x 1822 x 2137
EnviroAire VS110-W	10	19.8	110	2700	2547 x 1822 x 2137
EnviroAire VS132-W	10	26.8	132	2762	2547 x 1822 x 2137
EnviroAire VS160-W	10	28.4	160	2762	2547 x 1822 x 2137

Your Trusted Partner in Compressed Air

Air Treatment

Providing clean, dry, compressed air is especially important in applications where moisture or contamination can cause system corrosion, damage to air-powered tools or degradation of products or processes touched by the compressed air. Making our air treatment equipment an integral component of your compressed air system will improve product or process quality and productivity and system efficiency.

Desiccant Dryers

Choose desiccant dryers when very low dew points are necessary for high-quality air and to prevent potential freeze-up. Depending on whether you require lower initial capital costs, or lower energy use, choose heatless or heated desiccant models.

- Delivers reliable -20°C or -40°C pressure dew point in most operating conditions
- Low pressure drop design saves energy
- Advanced control is easy to use and maximises uptime



Air Filters

- Available in four different filtration grades, G,D,H and A to effectively remove particles, water and oil aerosols in your air stream.
- Advanced filter element design with high efficiency, compact size, easy installation



Refrigerated Dryers

Our cost-effective refrigerated dryers provide clean, dry air for most industrial applications.

- 3°C - 10°C Dew points
- Low capital, operating and maintenance costs
- Corrosion-free heat exchanger design for reliable operation



Take a Systems Approach

Delivering reliable oil-free compressed air to your facility goes well beyond the compressor itself. Optimise total cost of ownership (TCO) with a systems approach that delivers industry leading value through experienced installation and maintenance support, genuine OEM parts, accessories and consumables that extend the life of your system.

Your business will benefit from Gardner Denver's partnership. Through our extensive experience and global expertise we help to ensure reliability, lower maintenance costs and ease of serviceability.



Intelligent Internet Platform

In order to extend the normal operation time to a greater extent and allow the owner to safely manage the operation data of the air compressor at any time. The data system inside the GD air compressor will regularly send data to the data cloud platform, which customers can access through portable computers, tablets, or smartphones, allowing you to keep track of the machine's operation at any time. We provide layered service content, and customers can choose their level of data monitoring and analysis according to their specific operational needs.



Service Maintenance Package

Gardner Denver has developed maintenance packages that cover the entire operating cycle for customers to choose from, catering to their different maintenance needs and operating times. Customized maintenance packages can effectively cover spare parts that need to be replaced regularly for daily consumption, as well as provide maintenance components for major parts to ensure the normal and healthy operation of the machine.

Reliability: Original professional parts constantly guarantee air quality

Planning: Perform regular maintenance according to plans to reduce the probability of failure and improve operation stability

High efficiency: One chart number replaces the individual parts list to improve the efficiency of procurement and management

Comprehensiveness: Covering all parts required for one-time maintenance or service, with shorter delivery time than individual parts

Economical efficiency: Visualized budget for maintenance service costs, and more competitive prices than buying separate parts



	2000-hour service kit	4000-hour service kit	8000-hour service kit
Content and cycle of replacement / maintenance	<ul style="list-style-type: none"> • Air filter element • Oil filter element 	<ul style="list-style-type: none"> • Air filter element • Oil filter element • Oil separator element 	<ul style="list-style-type: none"> • Air filter element • Oil filter element • Oil separator element • Parts kit - Minimum pressure valve • Temperature-control valve maintenance kit • Intake valve maintenance kit • Water cooler seal maintenance kit

Gardner Denver Manages Your System with Heart and Soul

Gardner Denver has been manufacturing air compressors, blowers, vacuum pumps and related accessories for over 160 years. We are committed to helping customers achieve greater success by constantly improving the quality of our products and services through self-iteration and continuous innovation.

Gardner Denver is always ready to provide you with efficient, reliable and energy-saving compressed air and system solutions.

Oil-flooded Fixed Speed Air Compressor

Single-state air compressor

0.81-64.00m³/min
7-14barg

Two-state air compressor

29.60-70.10m³/min
7-14barg

Integrated Air compressor with
inbuilt refrigerated dryer

0.81-3.70m³/min
7-12.5barg



Oil-flooded PM VSD Air Compressor

0.15-31.00m³/min
7-10barg



Oil-flooded General VSD Air Compressor (Non-permanent Magnet)

12.10-70.10m³/min
7-14barg



Oil-flooded Low Pressure Air Compressor

Low pressure 5barg

50.4-61.5m³/min
4.5-5.5barg



Oil-free Air Compressor

Oil-free scroll air compressor

0.21-3.78m³/min
8-10barg



Water Lubricating Oil-free Permanent Magnetic VSD Air Compressor

Low-pressure model

0.60-70.00m³/min
3-4barg

Normal-pressure model

0.30-27.00m³/min
7-10barg

Medium-pressure model

1.40-40.00m³/min
20-40barg



Compressed Air Purification System

Pipelined filter

Refrigerated dryer

Desiccant dryer



After-sales Services for Peace of Mind

24-hour toll-free service hotline

Genuine spare parts

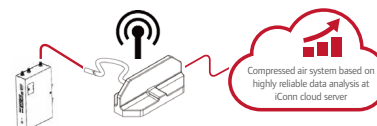
Customized services



System Solutions

Heat recovery system

iConn intelligent connected platform



Gardner Denver
website



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