

YOUR TRUSTED PARTNER IN COMPRESSED AIR

Staying ahead of your competition with advanced compressed air systems and services that boost productivity, lower operating expenses and extend equipment life is critical to your success.

No matter the industry or application, you can count on Ingersoll Rand® as a trusted partner for oil-free compressed air technologies and services. By focusing on you and your business, we provide collaborative solutions that make you successful, offering a total systems approach to maximize efficiency and performance.

Take a Systems Approach

Delivering reliable oil-free compressed air to your facility goes well beyond the compressor itself. Optimize 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 Ingersoll Rand's partnership. Through our extensive experience and global expertise we help to ensure reliability, lower maintenance costs and ease of serviceability.



ingersollrand.com

Let's Get Started **Together**

Throughout the entire lifecycle, our systems approach helps you achieve the lowest operating cost.



WHEN HIGH AIR PURITY IS A HIGH PRIORITY

You need a reliable, cost-effective compressed air solution, all backed by a global network of experts. That's what you get with our oil-free scroll air compressors.

For Efficiency and Air Flow

Advanced airend and drive component design provide world-class specific power and best-in-class air flow, resulting in reduced energy use.

For Reliability

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

For Virtually Any Environment

Our oil-free compressors have an optional feature that allows operation both indoors and outdoors at extreme ambient temperatures ranging from -23°F (-10°C) to 131°F (55°C).

A compact footprint provides space saving convenience.

For Lower Cost of Ownership

Higher initial costs for oil-free systems are more than offset by lower operational and maintenance costs over a system's life to maintain the highest air quality.



ISO 8573-1 A	ir Quality Classes
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 W-Series oil-free scroll compressors are Class 0 for no oil content to ensure your air quality exceeds specifications.

Oil-Free Scroll Compressors for Your Application

Ingersoll Rand offers a wide portfolio of reliable oil-free products that will adapt to your industry and application. We will assess and propose the best oil-free solution to increase the productivity of your installation, providing zero risk of contamination of your final product.



(IR) Ingersoll Rand.



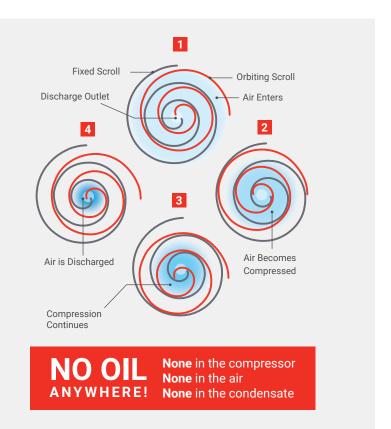


When quiet operation, low maintenance and a small footprint are critical, scroll air compressors are the smart choice. Their compact and innovative design make them ideal for many commercial applications where reliable, oil-free air is required.

How Scroll Compressors Work

Scroll compressors use two interlacing spiral scrolls to pump, compress and pressurize air.

- One scroll remains in a fixed position, while the other scroll orbits around it without rotating.
- This motion traps the air in the pockets between the two scrolls, and pushes the air towards the center. As the air moves closer to the center, the pockets become smaller, and the air is compressed.
- The process constantly repeats to maintain suction.
- Once the air reaches the center, it is discharged through an outlet.



(R) reprod Red

Scroll Compressor Advantages

Smaller footprint	•	Takes up less floor space
Fewer components	•	Higher reliability, longer life, less maintenance
Lower sound level		Healthy work environment
100% oil-free	•	Can be used in any industry
Use less consumables	•	Longer service intervals and life
No metal friction		Less maintenance
Zero emissions	•	Meets goals for sustainability
Fewer moving parts	•	Lower vibration

W-Series Tank-mounted, Unenclosed

100% Oil-Free Air

The simple tip seal design of a scroll compressor ensures no metal-to-metal contact anywhere. Therefore, the technology does not require lubrication, ensuring high-quality, oil-free air.



W2H

W22-H COMPRESSOR

Clean, Quiet and Efficient

Our scroll compressors pack tremendous value into a small, efficient package.

Base-mounted, Quiet-enclosed







What Makes Our Oil-Free Scroll Compressors Unique?

Efficient Design and Control

Our scroll compressors deliver more flow per hp in most cases and reach pressures up to 145 psig in a single stage of compression. We achieve this efficiency through design features such as:



- Start/stop control ensures the compressor only delivers what is needed when it is needed
- Nearly silent operation using the quietest compression technology
- Small radius rotation provides virtually instant pressure when started

Multiplex Design

The ability to multiplex the design for part-load efficiency means you can operate the exact number of compressors to match your demand.



Cool Operation

The integral radial flow fan creates built-in intercooling without the need for additional auxiliary fan help.



Microprocessor Control

Manages discharge pressure to meet your air demand, while measuring key operating parameters to reduce unwanted downtime (enclosed units only).



Air-cooled Aftercooler

Aftercooler is included with each pump in all packages to cool the discharge air. Discharge air temperatures vary with ambient conditions and model.

ingersollrand.com







DRYER, PARTS AND SERVICES



W/WS Model Specifications

W-Models	- 60 Hz													
	Number of	Nominal Power	Flow @ 100 psig (116 psig	Flow @ 145 psig (145 psig	Quiet Enclosed Base	Unenclosed Tank-mount				Drain Options		Controller Options		
Model	Pumps	hp	max)	max)	Mount	30 gal	60 gal	80 gal	120 gal	240 gal	None	Electric	Analog	Digital
W2-S	Simplex	3	8.8	7.1	•	•	-	-	-	-	•	•	•	-
W4-S	Simplex	5	15.2	12.5	•	-	•	•	-	-	•	•	•	-
W5.5-S	Simplex	7.5	23.1	17.0	-	-	-	-	•	-	•	•	•	-
W7.5-S	Simplex	10	31.2	25.0	-	-	-	-	•	-	•	•	•	-
W7.5-D	Duplex	10	30.4	25.0	•	-	-	•	•	-	•	-	-	•
W11-D	Duplex	15	46.2	34.0	-	-	-	-	•	•	•	•	•	-
W11-T	Triplex	15	45.6	37.5	•	-	-	-	-	-	•	-	-	•
W15-D	Duplex	20	62.4	50.0	-	-	-	-	•	•	•	•	•	-
W15-Q	Quadraplex	20	60.8	50.0	•	-	-	-	-	-	•	-	-	•
W22-H	Hexaplex	30	91.2	75.0	•	-	-	-	-	-	•	-	-	•
W30-0	Octoplex	40	121.6	100.0	•	-	-	-	-	-	•	-	-	•

WS-Models	s - 60 Hz											
Model	Number of Pumps	Nominal Power hp	Flow @ max psig 116 psig 145 psig		Quiet Enclosed Base Mount	Quiet E 30 gal	inclosed Tank-		Options Electric	Controller Options Analog Digital		
wodei	Pullips	пр	max	max	WOUTE	30 gai	oo gai	120 gal	Manuai	Liectric	Allalog	Digital
WS4S	Simplex	5	14.6	12.3	•	•	•	-	•	•	•	•
WS5.5S	Simplex	7.5	21.5	16.1	•	-	•	•	•	•	•	•
WS7.5S	Simplex	10	31.0	25.3	•	-	•	•	•	•	•	•
WS7.5D	Duplex	10	29.2	24.6	•	-	-	-	-	-	-	•
WS11D	Duplex	15	43.0	32.2	•	-	-	-	-	-	-	•
WS15D	Duplex	20	62.0	50.6	•	-	-	-	-	-	-	•
WS11T	Triplex	15	43.8	36.9	•	-	-	-	-	-	-	•
WS17T	Triplex	22.5	64.5	48.3	•	-	-	-	-	-	-	•
WS22T	Triplex	30	93.0	75.9	•	-	-	-	-	-	-	•
WS15Q	Quadraplex	20	58.4	49.2	•	-	-	-	-	-	-	•
WS22Q	Quadraplex	30	86.0	64.4	•	-	-	-	-	-	-	•
WS30Q	Quadraplex	40	124.0	101.0	•	-	-	-	-	-	-	•

Note: Tank mount options include standard, galvanized and vinyl coated steel









scale and clogged orifices that result in product damage or costly shutdowns. Making our air treatment equipment an integral component of your compressed air system will improve productivity, system efficiency and product or process quality.

Modular **Desiccant Dryers**

Choose desiccant dryers when very low dew points are necessary for high-quality air and to prevent potential freeze-up.



Moisture and contamination in compressed air cause significant problems in equipment operation, such as rust,

- · Delivers high-quality air, ISO Class 2 or optional Class 1 pressure dew point
- · Compact footprint and low noise operation (< 75 dBA), suitable for work environments
- High-strength desiccant and durable components provide extended life
- Low pressure drop design saves energy
- Advanced microprocessor control easy to use and maximizes uptime

Refrigerated **Dryers**

Cost-effective refrigerated dryers provide clean, dry air for most industrial applications. Cycling dryers maximize energy savings, while non-cycling dryers minimize initial cost.



- Dew points as low as 38°F (3°C), meeting Class 4 requirements
- · Corrosion-free heat exchanger design for reliable operation
- · Intuitive microprocessor control for easy operation
- · Compact design for easy serviceability

OEM Parts and Services

Ingersoll Rand is your trusted partner for the long haul. Our services include skilled project management and installation for start-up, system expansion or decommissioning, as well as flexible maintenance programs that meet your specific requirements. And our genuine OEM parts ensure that your compressor is running reliably and efficiently.

Installation



 Project management services



SimplAir® piping systems



 Air system accessories

Maintenance Programs



 PackageCARE™ full risk transfer



 PlannedCARE™ planned maintenance



 PartsCARE™ parts and assistance

Genuine OEM Parts



 Filters (annually)



 Tip seals and grease (2-4 years*)



ingersollrand.com

 Replacement airends (4-8 Years*)



^{*}Part life depends on application and use—higher pressure designs will require maintenance sooner



About Ingersoll Rand Inc.

Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most 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.

ingersollrand.com









Ingersoll Rand, IR, the IR logo, PackageCARE, PlannedCARE, PartsCARE and SimplAir are trademarks of Ingersoll Rand, its subsidiaries and/or affiliates. All other trademarks are the property of their respective owners.

Ingersoll Rand compressors are not designed, intended or approved for breathing air applications. Ingersoll Rand does not approve specialized equipment for breathing air applications and assumes no responsibility or liability for compressors used for breathing air service.

Nothing contained on these pages is intended to extend any warranty or representation, expressed or implied, regarding the product described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Ingersoll Rand's standard terms and conditions of sale for such products, which are available upon request.

Product improvement is a continuing goal at Ingersoll Rand. Any designs, diagrams, pictures, photographs and specifications contained within this document are for representative purposes only and may include optional scope and/or functionality and are subject to change without notice or obligation.

We are committed to using environmentally conscious print practices.
© 2019 Ingersoll Rand RITS-1118-100 0524