

Reciprocating Oil-Free Air Compressors - Industrial Applications

15-180 kW, 7-8.8 barg



The Ingersoll Rand range of Reciprocating Oil-free Air Compressors offers delivery pressures of ~9 bar and a variety of volumetric flows that can meet even the most challenging requirements. The units can be offered in either single or two stage configurations and they draw on the wealth of experience within the group in designing highly efficient reciprocating compressors. They can be configured to deliver a complete turnkey solution with compressor, drive, controls, dryers and receiver all fitting on a compact skid. All units are fully tested in our ISO 9001 accredited facility to ensure they are fully operational as quickly as possible in your facility and delivering on your investment.



[Learn More about Our Large Reciprocating Compressors](#)

World-Class Performance

- Non-lubricated 100% oil free, water cooled, continuous duty cycle rated.
- Rugged frame design-one-piece cast iron construction.
- Non lubricated, featuring long-life self-lubricating composite wearing components. Rifle drilled oil passage.
- Cylinders constructed with large cast-in water jackets for dimensional stability under continuous operation.
- Intercoolers/after coolers selected for optimal approach temperature.
- All internal components and piping are corrosion protected for extended life.
- Distance pieces feature two compartments, ensuring the lubricant is isolated from the cylinders.
- Pre-programmed Logic controller based control panel, with IP54 protection.
- Auto drain trap with bypass arrangement at Air Receiver.
- Two-step capacity control (0 - 100%).
- All compressor packages load tested at 100% full operating pressure.
- On two stage models - Horizontal balanced opposed design making the package compact, small foot print and easy to install.



Pharmaceuticals



Glass



Electronics



Pulp & Paper



Chemicals



Metal & Fabrication



Food & Beverages

Reciprocating Oil-Free Air Compressors - Industrial Applications Performance

Single Stage Packages			
Model	Configuration	Capacity m ³ /hr	Pressure Kg/cm ² g
IS1 20	7 x 5 ESV5	115	7
IS1 30	7 x 5 ESV5	177	7
IS1 40	8 x 7 ESV7	252	7
IS1 50	8 x 7 ESV7	308	7
IS1 60	9 x 7 ESV7	386	7
IS1 75	11 x 7 ESH7	490	7
IS1 20H	7 x 5 ESV5	98	8.8
IS1 30H	7 x 5 ESV5	154	8.8
IS1 40H	8 x 7 ESV7	217	8.8
IS1 50H	8 x 7 ESV7	274	8.8

Two Stage Packages			
Model	Configuration	Capacity m ³ /hr	Pressure Kg/cm ² g
IS2 100	12 & 7 x 7 PHE7	719	7
IS2 120	14 & 8 x 7 PHE7	894	7
IS2 150	14 & 8 x 7 PHE7	1099	7
IS2 180	16 & 10 x 7 PHE7	1339	7
IS2 215	16 & 10 x 7 PHE7	1575	7
IS2 240	16 & 10 x 7 PHE7	1696	7
IS2 100H	12 & 7 x 7 PHE7	664	8.8
IS2 120H	14 & 8 x 7 PHE7	821	8.8
IS2 150H	14 & 8 x 7 PHE7	1025	8.8
IS2 180H	14 & 8 x 7 PHE7	1189	8.8
IS2 215H	16 & 10 x 7 PHE7	1465	8.8
IS2 240H	16 & 10 x 7 PHE7	1609	8.8

- Atmospheric pressure: 14.7 PSIA, Temperature - 95 °F & 70% RH considered.
- Cooling water inlet temperature 90 °F considered & cooler CTD will be 20 °F.
- The performance is at the compressor discharge flange.
- The performance is subjected to tolerances as per test standard.



The CARE Service Program Advantage

Compressed air is critical to your operation. A proper maintenance strategy is crucial to avoiding unplanned, unbudgeted downtime and production interruptions. By choosing an Ingersoll Rand CARE service program, you are investing in your future with a trusted partner.

Depending on your reciprocating air compressor system maintenance requirements, choose from one of these two programs. Each program includes genuine OEM parts that eliminate inferior performance caused by generic parts that will cost you more in the long run.



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