



PET Compressed Air Solutions

800-4,000 m³/hr



Outstanding Reliability, Efficiency and Productivity

Ingersoll Rand meets the unique challenges of PET bottle blowing with advanced air compressor technologies tailored to your individual production requirements.

Designed for the PET Industry

Ingersoll Rand four-stage centrifugal and four-stage reciprocating compressors provide the critical performance you need to maximise your productivity. Ingersoll Rand PET compressors provide:

- Reliable operation in punishing environments
- High efficiency reducing your lifecycle cost
- Robust construction enhances productivity
- Customisable configurations to meet any operational need



Ingersoll Rand delivers oil-free air in reciprocating, rotary screw and centrifugal technologies.

100% Oil-Free Air

With an Ingersoll Rand oil-free compressor, you don't have to worry about contaminated air, regardless of the technology you choose. Our oil-free rotary screw and centrifugal compressors are rigorously tested to meet ISO Class 0 certification.



Ingersoll Rand delivers Class 0 oil-free options in both rotary screw and centrifugal technologies. Whether you manufacture PET bottles for food and beverage, pharmaceuticals, electronics or any other critical application, count on Ingersoll Rand oil-free compressors to deliver clean air and peace of mind.

Centac® Reliability and Simplicity

Ultimate Efficiency and Proven Reliability

Specifically designed for demanding PBM applications, Ingersoll Rand Centac® centrifugal compressors require very low maintenance having few moving parts and no components that can wear out. Their compact, innovative design delivers exceptional levels of reliability to keep your operation running smoothly at peak performance.

Superior Design Keeps Your Operation Running

- Long-life gears, bearings and components
- Leak-free seals and connections
- Simplified piping and integrated components means fewer connections
- Only four rotating parts in compression cycle

Optimised Components and Systems

- 100% oil-free air under all operating conditions
- Backward leaning impellers designed with leading edge software maximise efficiency and turndown

User Friendly Features Keep Installation and Maintenance Costs Low

- Ultra-compact footprint with simple installation
- Easy access to all critical components
- Advanced, web-enabled Xe-Series controller monitors system in real time



Model	Nominal Capacity		Pressure		Dimensions (Length x Width x Height)	Weight
	m ³ /hr	cfm	bar g	psig	m	kg
C750 1800	3,180	1,800	40	580	4.4 x 2.6 x 1.9	9,550
C750 2100	3,600	2,100	40	580	4.4 x 2.6 x 1.9	10,000
C750LP 2100	3,398	2,000	30	450	4.4 x 2.6 x 1.9	10,000

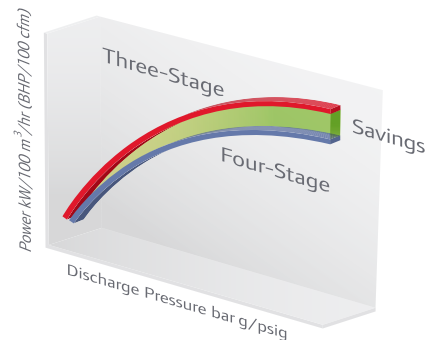
Weights and dimensions may vary according to the options chosen. Performance data based on reference conditions of 1 bar g/14.5 psig inlet pressure and 20°C inlet temperature. Please contact Ingersoll Rand for further information.

Efficient Reciprocating Compressors

Ingersoll Rand PETStar® 4 reciprocating air compressors offer durability and reliability combined with four-stage energy savings.

Flexible Output Combined with Maximum Reliability

Standard PET reciprocating compressors feature three-stage compression. Ingersoll Rand maximises efficiency with four stages of compression, which significantly increases efficiency over three-stage designs. Combined with industrial grade components and double-acting cast iron cylinders, PETStar® 4 compressors provide supreme durability that reduces maintenance requirements and lowers lifecycle costs.



Energy Efficiency by Design

- Three-step capacity control (0%-50%-100%) matches energy consumption with demand
- Advanced Xe-Series compressor controller proactively monitors critical parameters to ensure efficient operation
- IP-55 TEFC motor with star-delta starter for energy efficient starting

Durable Components for Increased Reliability

- Non-lubricated 100% oil-free water-cooled design
- Four-stage balanced, opposed layout reduces unwanted vibration
- Double-acting pistons with heavy-duty Class 40 cast iron cylinder construction
- Piston rings and packing rated for 16,000 hours
- Protective features such as rod drop position wear indicators available



PS4-3000

Model	Nominal Capacity		Pressure		Dimensions (Length x Width x Height)	Weight
	m ³ /hr	cfm	bar g	psig	m	kg
PS4-1500	1,560	918	40	580	6.7 x 2.6 x 2.9	21,500
PS4-1700	1,762	1,037	40	580	6.7 x 2.6 x 2.9	21,800
PS4-1900	1,964	1,156	40	580	6.7 x 2.6 x 2.9	22,000
PS4-2100	2,187	1,287	40	580	6.7 x 2.6 x 2.9	22,200
PS4-2300	2,406	1,416	40	580	6.7 x 2.7 x 3.0	22,650
PS4-2500	2,607	1,534	40	580	6.7 x 2.7 x 3.0	23,000
PS4-2800	2,911	1,713	40	580	6.7 x 2.7 x 3.0	23,200
PS4-3000	3,111	1,831	40	580	6.7 x 2.7 x 3.0	23,300
PS4-3300	3,438	2,023	40	580	6.7 x 2.7 x 3.0	23,900

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Total System Flexibility

Large PET bottle production can often consume great quantities of high and low pressure air. A primary booster system provides flexibility to meet changing demands.

System Capacity Adjustment On-Demand

The Ingersoll Rand primary booster system provides a modular approach that features a primary compressor augmented by a booster. The primary compressor can be an oil-free rotary or centrifugal compressor matched to your needs, while a two-stage, non-lubricated reciprocating compressor serves as the booster to easily adjust system capacity when demand changes.

- System capacity can be added independently to each circuit allowing for modular expansion
- Oversizing the primary compressor is an efficient method of providing low-pressure, oil-free air for plant use
- A standard low pressure dryer provides dry air and reduces possible freeze-ups due to high pressure condensate removal

Specifically configured for your unique application.



Primary Booster Systems

Model	Nominal Capacity		Pressure	
	m ³ /hr	cfm	bar g	psig
PSPB-800	800	471	40	580
PSPB-1000	1,016	598	40	580
PSPB-1200	1,263	743	40	580
PSPB-1500	1,487	875	40	580
PSPB-2000	1,995	1,174	40	580
PSPB-2300	2,342	1,378	40	580
PSPB-2900	2,850	1,677	40	580
PSPB-3400	3,351	1,972	40	580
PSPB-3900	3,859	2,271	40	580

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Performance Under Pressure

Reliable High Pressure Refrigerated Dryers

Ingersoll Rand high pressure cycling refrigerated dryers include premium features like stainless steel heat exchangers that greatly increase reliability. Their standard electronic controllers automatically manage dryer operation for optimum air treatment and efficiency.

With the cycling design that yields increased energy savings, Ingersoll Rand high pressure cycling refrigerated dryers are ideal for demanding high pressure applications like the PET industry.

High pressure refrigerated dryers available in pressures from 30-40 bar g (450-580 psig) and 50-60 Hz models from 14-188 m³/min (510-6,635 scfm).



High Pressure System Components

Ingersoll Rand has a full range of complementary components specifically designed for PET bottle blowing that provide reliable performance for even the most demanding applications. Each component delivers critical performance within the system.



The Xe-Series controller's* intuitive, high-resolution color display makes it easy to access compressor information remotely.

*Standard with new compressors; optional upgrade for existing compressors



High pressure filters deliver contaminant-free air with a low pressure drop to increase your system's efficiency.

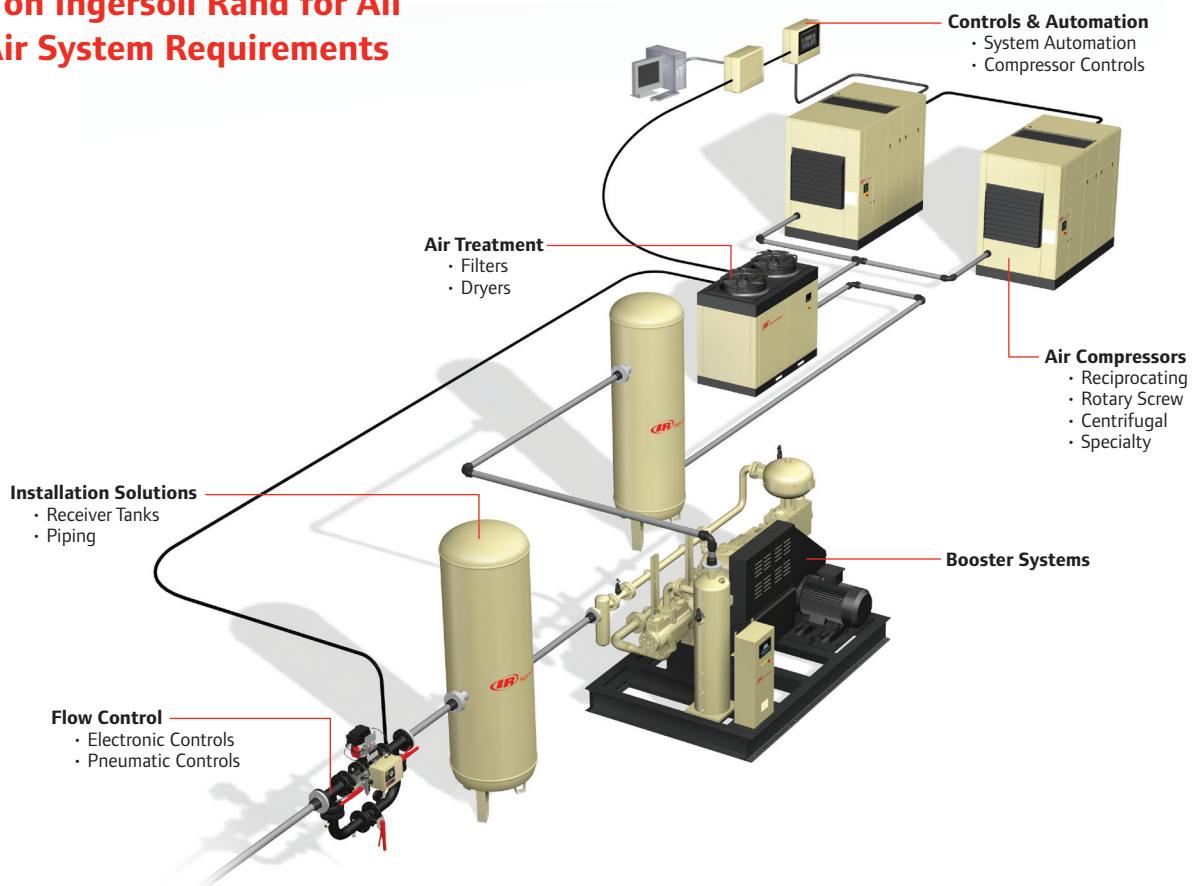


Receiver tanks are a crucial component that increases your system's potential by releasing compressed air when needed by the blow molder.

Ingersoll Rand...At Your Service

Regionally Managed

Count on Ingersoll Rand for All Your Air System Requirements





Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems. We also enhance productivity through solutions created by Club Car, the global leader in golf and utility vehicles for businesses and individuals.

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