Ingersoll Rand

PET Compressed Air Solutions

800-6,800 m^3/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 maximize your productivity. Ingersoll Rand PET compressors provide:

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

ISO 8573 Class 0 Oil-Free Air

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, large reciprocating and centrifugal compressors are rigorously tested to meet ISO Class 0 certification.

Ingersoll Rand delivers Class 0 oil-free options in rotary screw, large reciprocating, 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.

MSG® Centac® Reliability and Simplicity

Ultimate Efficiency and Proven Reliability

Specifically designed for demanding PBM applications, Ingersoll Rand MSG® 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

MSG Centac C750

Optimized Components and Systems

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

MSG Centac C1050

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

Ingersoll Rand C750 & C1050 – 50 Hz Performance

	Nominal Capacity		Pressure		Dimensions (Length x Width x Height)		Weight	
Model	m^3/hr	cfm	barg	psig	m	in	kg	lb
C750 1800	3180	1800	40	580	4.4 x 2.6 x 1.9	173 x 101 x 73	9550	21000
C750 2100	3600	2100	40	580	4.4 x 2.6 x 1.9	173 x 101 x 73	10000	22000
C750LP 2100	3398	2000	30	450	4.4 x 2.6 x 1.9	173 x 101 x 73	10000	22000
C1050 4000	6800	4000	40	580	5.1 x 2.6 x 2.6	202 x 104 x 101	12730	28000

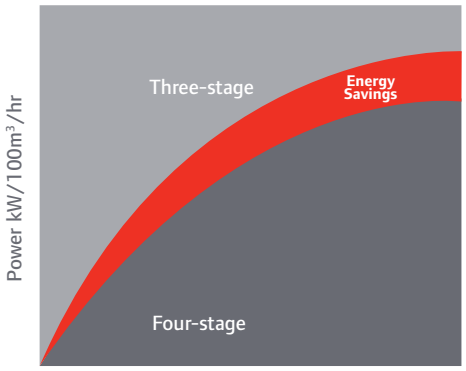
Weights and dimensions may vary according to the options chosen.
Performance data based on reference conditions of 1 bar g/14.5 psig inlet pressure and 20°C (68°F) inlet temperature. Please contact Ingersoll Rand for further information.

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 maximizes 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

PETStar PS4-3000

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

Ingersoll Rand PS4 – 50 Hz Performance

Model	Nominal Capacity		Pressure		Dimensions (Length x Width x Height)		Weight	
	m³/hr	cfm	barg	psig	m	in	kg	lb
PS4-1500	1560	918	40	580	6.7 x 2.6 x 2.9	270 x 90 x 115	21500	47700
PS4-1700	1762	1037	40	580	6.7 x 2.6 x 2.9	270 x 90 x 115	21800	48000
PS4-1900	1964	1156	40	580	6.7 x 2.6 x 2.9	270 x 90 x 115	22000	48300
PS4-2100	2187	1287	40	580	6.7 x 2.6 x 2.9	270 x 90 x 115	22200	48700
PS4-2300	2406	1416	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	22650	49600
PS4-2500	2607	1534	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	23000	50700
PS4-2800	2911	1713	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	23200	51000
PS4-3000	3111	1831	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	23300	51300
PS4-3300	3438	2023	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	23900	52500

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 (68°F) inlet temperature. Please contact Ingersoll Rand for further information.

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

Ingersoll Rand PSPB – 50 Hz Performance				
Model	Nominal Capacity		Pressure	
	m^3/hr	cfm	barg	psig
PSPB-300	300	177	40	580
PSPB-400	400	235	40	580
PSPB-600	600	353	40	580
PSPB-700	700	412	40	580
PSPB-800	800	471	40	580
PSPB-1200	1200	706	40	580
PSPB-1500	1500	883	40	580
PSPB-1700	1700	1001	40	580
PSPB-2000	2000	1177	40	580
PSPB-2300	2300	1354	40	580
PSPB-2900	2900	1707	40	580
PSPB-3400	3400	2001	40	580
PSPB-3900	3900	2295	40	580

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 (68°F) inlet temperature. Please contact Ingersoll Rand for further information.

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 barg (450-580 psig) and 50-60 Hz models from 14-188 m^3/min (510-6635 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.

CARE. Your trusted partner in compressed air

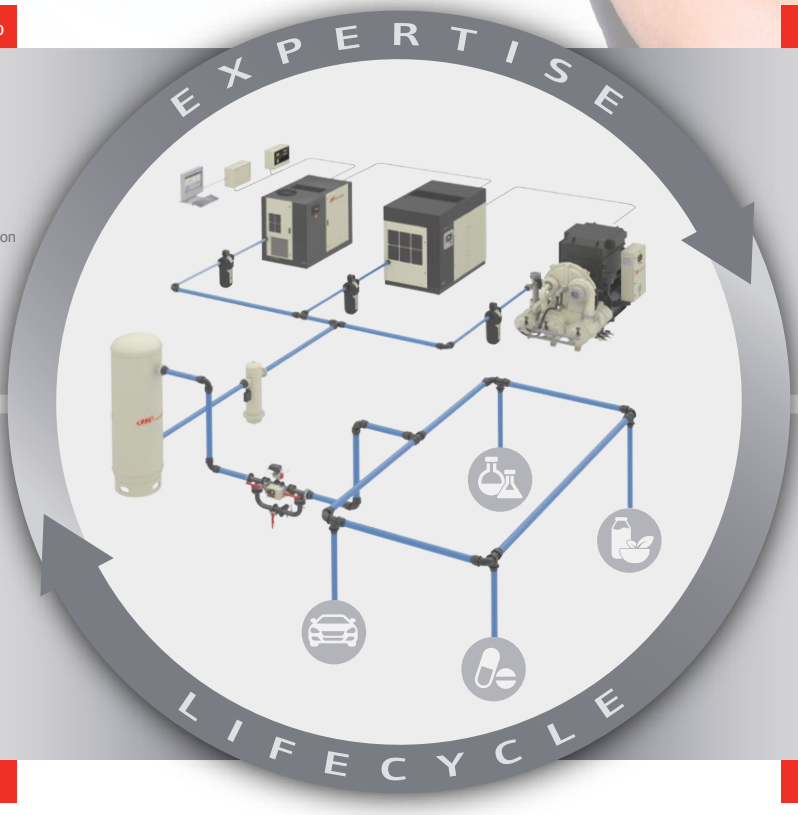
Optimize your total **Cost** of ownership, while maximizing **Availability**, **Reliability** and **Efficiency** throughout the life of your compressed air system with our Lifecycle CARE services.

total Cost of ownership

- Lifecycle cost planning
- System application & configuration
- System design and engineering
- Fixed-cost service agreements
- Risk transfer

Availability

- Global technical support
- Comprehensive services
- 24/7 service availability
- Factory-certified technicians
- Rental solutions



- System optimization
- Advanced system control
- Air distribution configurations
- Performance upgrades
- System leak assessments

Efficiency

- System health monitoring
- Genuine replacement parts
- System assessments
- Service technology tools
- System risk analysis

Reliability

Design • Install • Commission • Operate • Maintain • Extend

PackageCARE™...eliminate the inconvenience

No matter where your facility is located, Ingersoll Rand is committed to serving you 24 hours a day, seven days a week, available to support you with innovative and cost-effective service solutions that will keep you running at peak performance. Let Ingersoll Rand handle the pressures and responsibilities of owning a compressed air system with our signature service contract.

PackageCARE™

Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a $13 billion global business committed to a world of sustainable progress and enduring results.

IngersollRandProducts.com

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