



PET Compressed Air Solutions

470-4,000 cfm (800-6,800 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 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



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

Optimized Components and Systems

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



MSG Centac C750



MSG Centac C1050

Ingersoll Rand C750 & C1050 – 60 Hz Performance									
Model	Nominal Capacity		Pressure		Dimensions (Length x Width x Height)		Weight		
	cfm	m ³ /hr	psig	barg	in	m	lb	kg	
C750 1800	1,800	3,180	580	40	173 x 101 x 73	4.4 x 2.6 x 1.9	21,000	9,550	
C750 2100	2,100	3,600	580	40	173 x 101 x 73	4.4 x 2.6 x 1.9	22,000	10,000	
C750LP 2100	2,000	3,398	450	30	173 x 101 x 73	4.4 x 2.6 x 1.9	22,000	10,000	
C1050 4000	4,000	6,800	580	40	202 x 104 x 101	5.1 x 2.6 x 2.6	28,000	12,730	

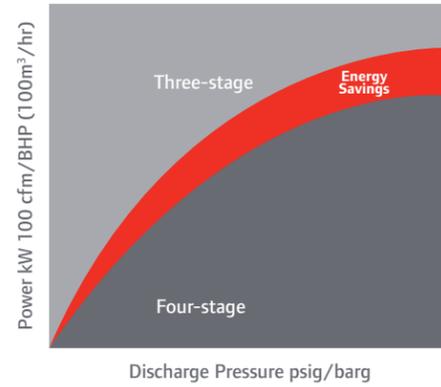
Weights and dimensions may vary according to the options chosen. Performance data based on reference conditions of 1 bar g/14.5 psig inlet pressure and 20°C (68°F) inlet temperature. Please contact Ingersoll Rand for further information.

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 – 60 Hz Performance								
Model	Nominal Capacity		Pressure		Dimensions (Length x Width x Height)		Weight	
	cfm	m ³ /hr	psig	barg	in	m	lb	kg
PS4-1500	918	1,560	580	40	270 x 90 x 115	6.7 x 2.6 x 2.9	47,700	21,500
PS4-1700	1,037	1,762	580	40	270 x 90 x 115	6.7 x 2.6 x 2.9	48,000	21,800
PS4-1900	1,156	1,964	580	40	270 x 90 x 115	6.7 x 2.6 x 2.9	48,300	22,000
PS4-2100	1,287	2,187	580	40	270 x 90 x 115	6.7 x 2.6 x 2.9	48,700	22,200
PS4-2300	1,416	2,406	580	40	270 x 107 x 119	6.7 x 2.7 x 3.0	49,600	22,650
PS4-2500	1,534	2,607	580	40	270 x 107 x 119	6.7 x 2.7 x 3.0	50,700	23,000
PS4-2800	1,713	2,911	580	40	270 x 107 x 119	6.7 x 2.7 x 3.0	51,000	23,200
PS4-3000	1,831	3,111	580	40	270 x 107 x 119	6.7 x 2.7 x 3.0	51,300	23,300
PS4-3300	2,023	3,438	580	40	270 x 107 x 119	6.7 x 2.7 x 3.0	52,500	23,900

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 – 60 Hz Performance					
Model	Nominal Capacity		Pressure		
	cfm	m ³ /hr	psig	barg	
PSPB-300	177	300	580	40	
PSPB-400	235	400	580	40	
PSPB-600	353	600	580	40	
PSPB-700	412	700	580	40	
PSPB-800	471	800	580	40	
PSPB-1200	706	1,200	580	40	
PSPB-1500	883	1,500	580	40	
PSPB-1700	1,001	1,700	580	40	
PSPB-2000	1,177	2,000	580	40	
PSPB-2300	1,354	2,300	580	40	
PSPB-2900	1,707	2,900	580	40	
PSPB-3400	2,001	3,400	580	40	
PSPB-3900	2,295	3,900	580	40	

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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 450-580 psig (30-40 barg) and 50-60 Hz models from 510-6,635 scfm (14-188 m³/min).

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



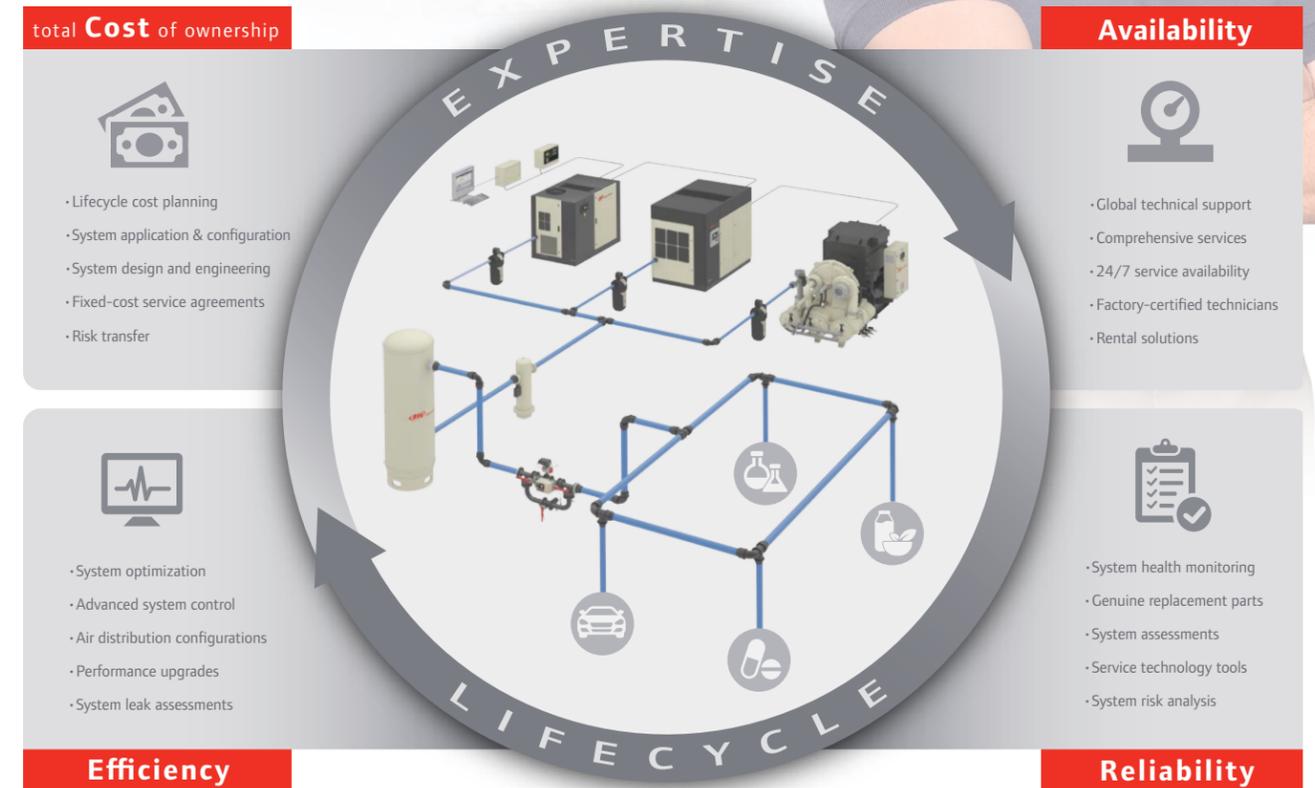
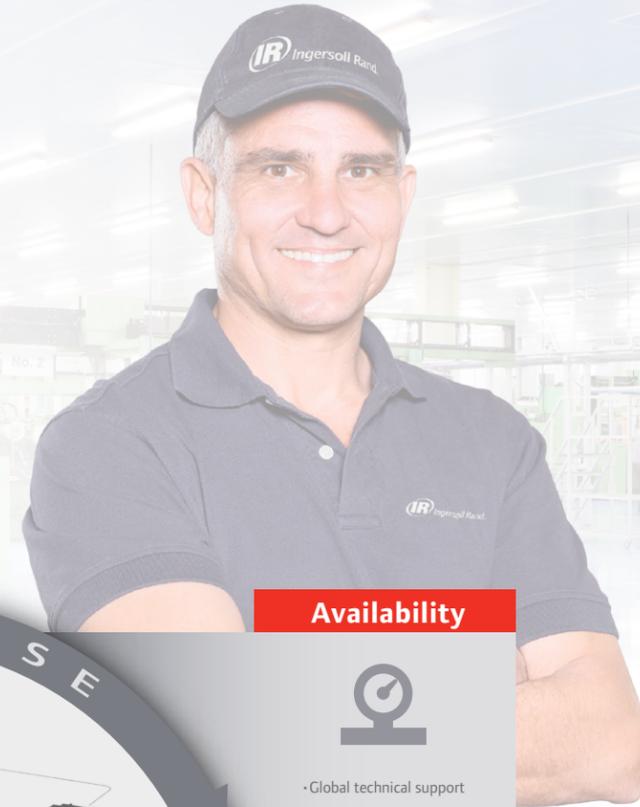
High pressure filters deliver contaminant-free air with a low pressure drop to increase your system's efficiency.



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.



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.





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