

PET Compressed Air Solutions

PETStar® 4 Compressors



- Non-lubricated 100% oil-free water-cooled design
- Energy efficient, four-stage balanced, opposed layout
- Robust, double-acting pistons with high strength Class 40 cast iron cylinder construction for increased durability
- 16,000-hour rated piston rings and packing
- Worldwide service and parts support to ensure reliable performance
- Anti-corrosion coating on system air piping

- Durable construction with sleeve-type main and connecting rod bearings for extra strength
- Crankshaft-driven main oil pump provides consistent lubrication and longer component life
- Large cast-in water jackets for dimensional stability under extreme conditions
- State-of-the-art, web-enabled Xe-Series controller
- No-loss condensate drain provides increased reliability



Standard Features Include:	Optional Features Include:
Interstage temperature and pressure sensors to keep close track of system parameters	Piston rings and packing rated for 16,000 hours
Heavy-duty welded steel sub-base	Rod drop position wear indicators
Crankshaft-driven main oil pump	Easier to service, non-metallic valves, yielding 2-3 times the
Anti-corrosion coating on all system air piping	operational life of comparable plate valves in two to three
Electrical driven pre-lubrication system	stage compressors
Web-enabled, advanced controller with high resolution color display	

Model	Nominal Capacity		Pressure		Dimensions (Length x Width x Height)		Weight	
	m³/hr	cfm	bar g	psig	m	in	kg	lb
PS4-1500	1,560	918	40	580	6.7 x 2.6 x 2.9	270 x 90 x 115	21,500	47,700
PS4-1700	1,762	1,037	40	580	6.7 x 2.6 x 2.9	270 x 90 x 115	21,800	48,000
PS4-1900	1,964	1,156	40	580	6.7 x 2.6 x 2.9	270 x 90 x 115	22,000	48,300
PS4-2100	2,187	1,287	40	580	6.7 x 2.6 x 2.9	270 x 90 x 115	22,200	48,700
PS4-2300	2,406	1,416	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	22,650	49,600
PS4-2500	2,607	1,534	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	23,000	50,700
PS4-2800	2,911	1,713	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	23,200	51,000
PS4-3000	3,111	1,831	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	23,300	51,300
PS4-3300	3,438	2,023	40	580	6.7 x 2.7 x 3.0	270 x 107 x 119	23,900	52,500

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.

บริษัท พรีเมี่ยม อิควิปเม้นท์ แอนด์ เอ็นจิเนียริ่ง จำกัด Premium Equipment & Engineering Co., Ltd. Tel: 02-9198900 Email: marketing@premium.co.th Line: @premiumpr



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PET Star upto 10 cavity (127 - 888 cfm)

PETStar-3 in-line reciprocating compressors are designed to meet the needs of customers with small rotary or in-line blow molding equipment. These customers require an economical and efficient solution to maximize productivity. Arranged in a space-saving package, the PETStar-3 in-line has singlepoint air, water and electrical connections for easy



forklift access for convenient transport. By utilizing 3-stage inline design configuration, access to all areas is made unobtrusive during maintenance operations. Robust in design and construction, the PETStar-3 in-line is truly a cost-effective solution.

Benefits

PETStar Life Cycle

<mark>Cost Analysis</mark>

- Non-lubricated 100% oil free, water cooled, continues duty cycle rated
- Three-stage balanced opposed layout minimizes foundation requirements

installation. The machine base is also designed with

- Rugged frame design-one-piece cast iron construction
- No lubricated, featuring long-life self-lubricating composite wearing components
- Cylinders constructed with large cast-in water jackets for dimensional stability under continuous operation
- Intercoolers/after coolers selected for optimal 8 °C (15 °F) 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
- Advanced Intellisys[®] SG microprocessor-based controller monitors all critical system parameters in real time
- All components constructed in accordance with World Standards and stamped as applicable
- Three-step capacity control (0-50-100%)

 All compressor packages load tested at 100% full operating pressure

Model	Pressure	Capacity	Motor
PS3 215	35	127	60
PS3 215	40	127	60
PS3 270	35	161	75
PS3 270	40	161	75
PS3 340	40	200	100
PS3 400	40	236	100
PS3 445	40	262	120
PS3 525	40	310	150
PS3 600	40	354	150
PS3 725	40	427	180
PS3 820	40	484	200
PS3 900	40	528	225
PS3 1300	40	761	300
PS3 1500	40	881	350

Total Life Cycle of High Pressure Compressor calculated on a 10 year basis operation



Traditional purchase decision factors represent only 20% of the cost to own and operate a high pressure compressor while energy represents 80% of the life cycle cost. Only PETSTAR will save you energy cost over its life with lowest energy consumption.

PETSTAR WILL REDUCE THE TOTAL LIFE CYCLE COST TO OWN AND OPERATE AN AIR COMPRESSOR WITH ITS UNMATCHED EFFICIENCY AND RELIABILITY

PET Star upto 30 cavity (900 - 1982 cfm)

When unsurpassed performance and reliability are required, the PETStar-4 line of 4-Stage Reciprocating Air Compressors answers the challenge. Robustly designed and configured in a horizontally opposed cylinder configuration, the PETStar-4 arrangement virtually eliminates vibration with a minimal foundation requirement. By utilizing four stages of compression, the PETStar-4 is capable of providing unsurpassed compressor

efficiency. Lower stage compression ratios reduce the cylinder operating temperatures and extend the life of valves, rings and packing. To simplify installation, all PETStar-4 units feature a heavy duty welded steel sub base and are available with a matching air treatment component package. Whether you require a compressor for in-line molding or capacity to support a large production operation, there is a PETStar-4 package to meet your needs.

Benefits

- Non-lubricated 100% oil-free water-cooled design
- Four-stage balanced opposed layout eliminates unwanted vibration
- All double-acting, heavy-duty class-40 cast iron cylinder construction
- Sleeve type main and connecting rod bearings
- Endurable 16,000 hour rated piston rings & packing*
- Anticorrosion coating on all system air piping
- Crankshaft-driven main oil pump
- Electrical-driven pre lubrication system
- Large cast-in water jackets for dimensional stability under extreme conditions
- Conservatively designed valves selected to provide extra-long life
- Lowest interstate temperatures and pressures
- Intercoolers/after coolers selected for optimal 9 °C (15 °F) approach temperature
- Distance pieces feature two compartments, ensuring lubricant is isolated from cylinders
- Three-step capacity control (0-50-100%)
- Advanced CMC main compressor controller with 1,000-event logging capability built-in
- IP-55 TEFC motor



- Star-delta main motor starter
- All components constructed in accordance with World Standards and stamped as applicable
- Available in Basic or Intermediate package configuration with optional piped and mounted dryer and receiver
- Available rod drop position wears indicators^{*}

Model	Pressure kg/cm² g	FAD cfm	Motor hp
PS4-1500	40	896	350
PS4-1700	40	1016	400
PS4-1900	40	1132	450
PS4-2100	40	1262	500
PS4-2300	40	1386	525
PS4-2500	40	1503	550
PS4-2800	40	1678	625
PS4-3000	40	1793	675
PS4-3300	40	1982	750

- Performance data is basis reference conditions of 1 bar inlet pressure & 35 $^{\rm o}{\rm C}$ inlet temperature

- Capacity and power subjected to industry tolerances
- Sound measurement basis free field conditions
 Please contact us for further information
- * Optional