Solutions of Choice

An era of choice begins. Ingersoll-Rand introduces creative solutions to the production challenges of PET bottle blowing.

For the first time, you can choose between different highly advanced air compression technologies—which now include the outstanding performance of four-stage centrifugal and reciprocating compressors—to select that which best meets the unique production requirements of your plant.

The reasoning is straightforward. To compete successfully in the global marketplace, companies like yours must keep production lines running smoothly and with minimum interruption. Downtime, whether scheduled or unscheduled, is costly.

So, with a thorough understanding of the dynamics in today’s strenuous production environment, Ingersoll-Rand unveils groundbreaking 4-stage centrifugal technology and 4-stage reciprocating technology for unmatched reliability and performance. Together with our other highly regarded reciprocating solutions, these superior technologies from a single-source provider offer the PBM Industry—

- Lower life-cycle cost
- Unmatched product durability
- Ability to thrive in punishing environments
- Economical and efficient solutions to maximize productivity
- Numerous configurations to meet any operational need

Take the vital first step in choosing the right solution. Call Ingersoll-Rand. Our thoroughly trained staff is ready to help you evaluate your air system to determine your compressed air needs.
Ingersoll-Rand understands that compressed air means the system, not just the compressor. That is why we are the only manufacturer in the PET industry that offers total care solutions.
State-of-the-Art Reliability

Several years ago we embarked on an ambitious quest to provide the most reliable air compressor solution available to the PBM industry. We achieved our goal with the introduction of the Centac C750. Specifically designed for demanding PBM applications, the C750 has few moving parts and virtually nothing to wear out. Valve, ring and packing changes become a thing of the past. Centac compressors, by design, will run for long intervals—and since they stay running, you keep producing. Featuring a noncontact compression cycle, the C750 offers unsurpassed air quality, oil-free, with no particles induced into the air stream. Experience legendary reliability, and the peace of mind it brings, with the new Centac C750 solution.

**BENEFITS**

- Simplicity by design—four main rotating parts
- 100% oil-free noncontact compression cycle; no particles generated during the compression process
- Four-stage from atmosphere design for optimal efficiency
- Ultracompact footprint with no vibration or unbalanced forces to contain
- Low installation cost single-point air and water connections
- Stainless steel interconnect piping with standard flange fittings
- Gear-driven main oil pump ensures lubrication during coast down
- Mounted and piped no-loss-style condensate removal traps standard on all models
- Anticorrosion protection standard on all internal passages
- Ingersoll Rand’s advanced CMC® microprocessor-based controller monitors all critical system parameters in real time
- Intercoolers/aftercoolers designed for 6°C (10°F) approach temperature
- On-screen start-up and basic maintenance instructions simplify operation
- Ambient and parallel valve control logic
- Standard constant pressure or auto-dual control modes
- All components constructed in accordance with World Standards and stamped as applicable
- Complete factory load-tested package
- System-matched components carefully chosen to ensure superior performance
- 85 dBA sound level (measured in free field condition with standard ODP motor)

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Stages</th>
<th>Nominal Capacity HP/kW</th>
<th>Capacity CFM/m³h</th>
<th>Pressure PSI/Bar</th>
<th>Dimensions in./cm</th>
<th>Weight lb./kg</th>
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<tr>
<td>C750-1800</td>
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<td>C750-2100</td>
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Reference Conditions: Inlet Pressure — 1 Bar, Temperature 20°C
Four-Stage Atmospheric

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 subbase 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.

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Stages</th>
<th>Nominal HP/kW</th>
<th>Capacity CFM/m³/h</th>
<th>Pressure PSi/Bar</th>
<th>Dimensions in./cm</th>
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<tr>
<td>PS-4 1500</td>
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</tr>
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<td>PS-4 3000</td>
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<td>PS-4 3300</td>
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<td>270/685</td>
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Reference Conditions: Inlet Pressure — 1 Bar, Temperature 35°C
Primary Booster Systems

Total System Flexibility

Large bottle production operations often consume great quantities of high-pressure and low-pressure air. For certain customers who choose to invest in a modular system, IR can provide a primary compressor augmented by a booster. An advantage of this configuration is that it allows for independent addition of capacity to each circuit. The primary compressor can be chosen from a wide range of oil-free rotary or centrifugal compressor designs, which require minimal maintenance. A two-stage nonlubricated reciprocating compressor serves as the booster.

**BENEFITS**

- Multiple stages of compression improve efficiency and extend compressor life by maintaining lower operating temperatures
- The primary compressor and balanced opposed booster require a minimum foundation
- 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
- Centrifugal compressors, with few moving components, require minimum maintenance and replacement parts, significantly reducing maintenance costs
- The reciprocating booster, by design, requires significantly fewer valves than that of an atmospheric compressor, resulting in lower maintenance costs
- Standard low-pressure dryer allows for dry plant air and eliminates possible freeze-ups due to high-pressure condensate removal
- Primary compressor and booster can be sized to optimize the plant air system. When an expansion of low- or high-pressure air is needed, additional air can be added in that circuit
- All compressors, including boosters, tested at 100% full operating pressure
Balanced Three-Stage Atmospheric

Tradition is something we take seriously at Ingersoll-Rand, and it is developed in our products through constant refinement. The latest PETStar-3 In-line compressors carry on that rich heritage. Redesigned with state-of-the-art materials and technologies, PETStars are rugged units that offer exceptional value to our customers, based on improved operating life, low maintenance, and high efficiency. Built for long life, each package is shipped on a rigid steel subbase, to be easily installed on any standard concrete floor. Single-point air, water and electrical connections further aid quick installation. A legend from the beginning, and refined over the years, there is a PETStar package to fit your needs.

**Benefits**

- Three-stage balanced opposed layout minimizes foundation requirements
- All double-acting stages (700-1510)
- Rugged frame design—one-piece cast iron construction
- Nonlubricated, featuring long-life self-lubricating composite wearing components
- Available with Enduralife Components—extended wearing materials
- Cylinders constructed with large cast-in water jackets for dimensional stability under continuous operation
- Intercoolers/aftercoolers 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
- All compressor packages load tested at 100% full operating pressure

**Specifications**

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Stages</th>
<th>Nominal HP/kW</th>
<th>Capacity CFM/m³h</th>
<th>Pressure PSI/Bar</th>
<th>L</th>
<th>W</th>
<th>H</th>
<th>Weight lb./kg</th>
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<tbody>
<tr>
<td>PS-3i 500</td>
<td>3</td>
<td>150/112</td>
<td>297/504</td>
<td>580/40</td>
<td>205/520</td>
<td>89/226</td>
<td>85/216</td>
<td>14,000/6,360</td>
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<td>3</td>
<td>180/135</td>
<td>425/723</td>
<td>580/40</td>
<td>210/533</td>
<td>89/226</td>
<td>85/216</td>
<td>14,660/6,650</td>
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<td>220/164</td>
<td>530/901</td>
<td>580/40</td>
<td>210/533</td>
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<td>PS-3i 1000</td>
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<td>250/190</td>
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<td>580/40</td>
<td>210/533</td>
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<td>580/40</td>
<td>220/686</td>
<td>87/221</td>
<td>88/224</td>
<td>15,950/7,250</td>
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</table>

Reference Conditions: Inlet Pressure - 1 bar, Temperature 35 Deg. C°
Three-Stage Atmospheric

PETStar-3 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 has single-point air, water and electrical connections for easy installation. The machine base is also designed with forklift access for convenient transport. By utilizing a W configuration, access to all areas is made unobtrusive during maintenance operations. Equally robust in design and construction, the PETStar-3 is truly a cost-effective solution.

**BENEFITS**

- Nonlubricated 100% oil-free continuous duty cycle rated
- Three-stage double-acting compression W-layout
- Rugged frame design: one-piece cast iron construction
- Full-floating, pressure lubricated sleeve-type main and connecting rod bearings
- Heavy duty two compartment NL distance piece, ensuring no side loads and isolation of lubricant
- State-of-the-art self-lubricating composite material used for piston, wear, and packing rings
- Durable stainless steel plate valves
- Force lubricated - crankshaft driven main oil pump
- Large cast-in water jackets for dimensional stability under continuous operation
- Stainless steel interconnect piping, with SAE O-ring fittings (Dry Type Technology)
- Intercoolers/aftercoolers selected for optimal 8°C (15°F) approach temperature
- Advanced Intellisys®, SG microprocessor-based controller monitors all critical system parameters in real time
- Thermostatic water control valves, and solenoid-operated shut-off valve
- NEMA-4 (IP-54) rated main motor starter and control panel
- Two-step capacity control, 0%–100%
- All components constructed in accordance with World Standards and stamped as applicable
- Single-point air, water, and electrical connections

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Stages</th>
<th>Nominal HP/kW</th>
<th>Capacity CFM/m³/h</th>
<th>Pressure PSI/Bar</th>
<th>L</th>
<th>Dimensions in./cm</th>
<th>W</th>
<th>H</th>
<th>Weight lb./kg</th>
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<tr>
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<td>100/170</td>
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<td>90/229</td>
<td>72/183</td>
<td>65/166</td>
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<td>PS-3 210</td>
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<td>PS-3 310</td>
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<td>70/55</td>
<td>169/287</td>
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<td>90/229</td>
<td>72/183</td>
<td>65/166</td>
<td>7,725/3,511</td>
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</tbody>
</table>

Reference Conditions: Inlet Pressure — 1 Bar, Temperature 20°C
The Type-30 compressor is an Ingersoll-Rand legend. The basic design has been in service throughout the world for more than 75 years. Now newly redesigned and improved, the Type-30 is perfectly suited for intermittent blowing applications, such as single-step injection blow molding or small two-step reheat blow molding processes. The Type-30 is available in single or dual base plate configurations. Our staff is ready to help you select the right unit to fit your needs.

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Stages</th>
<th>Nominal HP/KW</th>
<th>Capacity CFM/m³h</th>
<th>Pressure PSi/Bar</th>
<th>Max. PSi/Bar</th>
<th>Dimensions in./cm</th>
<th>Weight lb./kg</th>
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</thead>
<tbody>
<tr>
<td>T30 7T2x10</td>
<td>3</td>
<td>10/7.5</td>
<td>21.4/36.5</td>
<td>500/35</td>
<td>500/35</td>
<td>49/125</td>
<td>650/295</td>
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<tr>
<td>T30 7T4x5</td>
<td>2</td>
<td>4.3/3.7</td>
<td>6.6/11.2</td>
<td>580/40</td>
<td>1000/68</td>
<td>49/125</td>
<td>750/341</td>
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<tr>
<td>T30 15T2x10</td>
<td>2</td>
<td>10/7.5</td>
<td>23.0/39.1</td>
<td>580/40</td>
<td>1000/68</td>
<td>56/142</td>
<td>950/432</td>
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<tr>
<td>T30 15T2x15</td>
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<td>15/11.2</td>
<td>31.1/52.8</td>
<td>580/40</td>
<td>1000/68</td>
<td>56/142</td>
<td>950/432</td>
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<tr>
<td>T30 15T2x15D**</td>
<td>3</td>
<td>30/22.4</td>
<td>62.3/105.7</td>
<td>580/40</td>
<td>1000/68</td>
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<td>1,150/523</td>
</tr>
</tbody>
</table>

Reference Conditions: Inlet Pressure — 1 Bar, Temperature 20°C
** Note: Duplex arrangement.
HPS Series Refrigerated Dryer

Value Package Solution

The high-pressure dryer is a vitally important link in the supply of clean dry air to the blow molding process. During air compression, the compressor concentrates contaminants in the form of water vapor and airborne particles. These contaminants can damage the internal components of the molding equipment. Our refrigeration dryers have been specially designed to exceed the requirements of demanding PBM applications. As compact space-saving units, they are built to exceed the strict international standard of ISO 8573.1 class 4 governing pressure dew point. The HPS series will provide many years of trouble-free operation.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Air-Cooled scfm/m3hr</th>
<th>Water-Cooled scfm/m3hr</th>
<th>Nominal hp/kW</th>
<th>MAWP PSI/Bar</th>
<th>Dimensions in .cm</th>
<th>Weight lb./kg</th>
</tr>
</thead>
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<tr>
<td>HPS 300</td>
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<td>870/1,480</td>
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<td>50/127</td>
<td>48/122</td>
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</tr>
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<td>3,490/5,920</td>
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<td>50/127</td>
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<td>12.0/16.5</td>
<td>725/50</td>
<td>50/127</td>
<td>48/122</td>
</tr>
</tbody>
</table>

Flow and pressure drop at MAWP (Maximum Allowable Working Pressure) and at 60hz, 100°F. 38°C inlet and 100°F, 38°C ambient temperature. Dimensions and weights are for reference only. Please refer to the installation and construction manual for detailed information. MAWP is given at 38°C inlet and 38°C ambient temperature. Correction factor for 50hz operation = .83
Air Dryers, Filters, and Storage

VCD Series Refrigerated Air Dryer

Ingersoll-Rand introduces the VCD Refrigerated Air Dryer—a state-of-the-art air quality solution designed to help you compete successfully in today’s unforgiving business environment. Incorporating the most advanced dryer technology available, the VCD uses a patented refrigeration system, along with variable speed controls, to provide maximum performance, durability and overall efficiency—making it the most effective, reliable and energy efficient dryer on the market—the ultimate air quality solution for PET Blow Molding Applications.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Air-Cooled scfm/m3hr</th>
<th>Water-Cooled scfm/m3hr</th>
<th>Nominal hp/kW</th>
<th>MAWP PSI/Bar</th>
<th>Dimensions in./cm</th>
<th>Weight lb./kg</th>
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</thead>
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<td>330/561</td>
<td>330/561</td>
<td>1.5/2.1</td>
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<td>59/150</td>
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<td>500/850</td>
<td>500/850</td>
<td>2.0/2.6</td>
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<td>59/150</td>
<td>28/71</td>
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<tr>
<td>PET 700H</td>
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<td>700/1,189</td>
<td>3.0/4.0</td>
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<td>59/150</td>
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<td>PET 1000H</td>
<td>1,050/1,784</td>
<td>1,050/1,784</td>
<td>4.0/5.8</td>
<td>700/48</td>
<td>77/196</td>
<td>41/105</td>
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<td>PET 1500H</td>
<td>1,500/2,549</td>
<td>1,500/2,549</td>
<td>6.0/7.6</td>
<td>700/48</td>
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<td>PET 2100H</td>
<td>2,100/3,568</td>
<td>2,100/3,568</td>
<td>10.0/11.8</td>
<td>700/48</td>
<td>82/208</td>
<td>48/122</td>
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<td>PET 2800H</td>
<td>2,800/4,758</td>
<td>2,800/4,758</td>
<td>10.0/11.8</td>
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<td>106/269</td>
<td>59/150</td>
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<td>25.0/21.6</td>
<td>700/48</td>
<td>114/290</td>
<td>69/175</td>
</tr>
</tbody>
</table>

Dimensions and weights are for reference only. Request certified drawings for installation purposes.

**NOTES:**
1. KW ratings are based at 35 F evaporating temperature and 85 F cooling water
2. Air In/Out connections are 600# ANSI flanges
3. Standard voltage is 208-230V/1/60 FOR PET-300 through PET-400. 460V/3/60 for PET-500 and larger.
4. Condenser water flow based on 85 F cooling water
5. Max SCFM is based on 100 F air inlet, 610 psig and 85 F cooling water

**High Pressure Accessories**

Ingersoll-Rand has long recognized the need to have diverse technologies to offer customers the right solution to their compressed air needs. This is especially true in the PET industry, that is why IR has other high pressure alternatives that will optimize the operation of any compressed-air system. This includes accessories, such as, pre-piped and mounted Air Treatment Modules (ATM), Heat-of-Compression air dryers, high pressure air filters and storage tanks.

**AIR FILTER SPECIFICATIONS**

<table>
<thead>
<tr>
<th>General Purpose Model</th>
<th>Micron</th>
<th>High Efficiency Model</th>
<th>Micron</th>
<th>MAWP PSI/Bar</th>
<th>Capacity scfm/m3hr</th>
<th>Connection Size</th>
<th>Dimensions in./cm</th>
<th>Weight lbs/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPGP 800</td>
<td>1</td>
<td>HPHE 800</td>
<td>0.01</td>
<td>900/61</td>
<td>800/1,360</td>
<td>1”NPT</td>
<td>15/38</td>
<td>14/6</td>
</tr>
<tr>
<td>HPGP 2000</td>
<td>1</td>
<td>HPHE 2000</td>
<td>0.01</td>
<td>900/61</td>
<td>2,000/3,400</td>
<td>1”NPT</td>
<td>24/61</td>
<td>24/11</td>
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<tr>
<td>HPGP 4000</td>
<td>1</td>
<td>HPHE 4000</td>
<td>0.01</td>
<td>700/48</td>
<td>4,000/6,800</td>
<td>3”NPT</td>
<td>41/104</td>
<td>147/67</td>
</tr>
</tbody>
</table>

Dimensions and weights are for reference only. Please request certified drawings for installation purposes.
Control Systems

Anticipating Your Control Systems Needs

Whether it’s local compressor controls or systemwide configurations, Ingersoll-Rand has solutions that save. We save in three ways:

1. **Reliability Savings**
   IR controls will improve your operations process. A dependable product air system means a dependable product to your customers.

2. **Energy Savings**
   IR controls reduce wasted air at the compressor and at system levels. Controls reduce air pressure and increase throttle range to conserve air and energy.

3. **Maintenance Savings**
   Preventative maintenance features in both compressor and system will help warn us before physical symptoms arise.

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**Intellisys®, SG**

The Intellisys SG is IR’s basic microprocessor and is standard on most PETStar models. The easy-to-read LCD allows on-the-fly adjustments to be made quickly and easily. Other capabilities of this controller include—

- Interstage temperature and pressure monitoring
- Real-time system diagnostics and troubleshooting
- Comprehensive data display
- RS-232 interface capabilities
- Security protection
- Available retrofits

**CMC Microcontroller**

The CMC is the most advanced microcontroller for air compressors available in the marketplace today. It is standard on all Centac products and optional on the PETStar-4 product line. It utilizes a large graphical screen for viewing large amounts of data at once. Other features of this state-of-the-art controller include—

- LCD membrane touch pad
- Different language capabilities for user-friendly interface
- Real-time system diagnostics and troubleshooting
- Event logging for up to 1,008 events
- MODBUS protocol with communications card
- RS-232 and 422 interface capabilities
- Active security protection
- Retrofits available
**Intellisys® Energy Optimizer**

The Intellisys Energy Optimizer (IEO) is a microprocessor-based controller designed to minimize operational pressure. By tightening the control band, excess pressure is eliminated and energy is conserved. The IEO will also determine the precise number of compressors required to supply system pressure and flow, eliminating wasted power. When the compressors are not in demand, the IEO shuts them down. Other capabilities include—

- Large graphical user interface
- Optional dew point monitoring
- System pressure band control
- Built-in sequencer for up to eight machines
- RS-232 and 422 interface capabilities

**Air System Controller**

IR's Air System Controller (ASC) is a computer-based controller designed to minimize operational pressure. The ASC integrates all your compressed-air needs into one control package. The primary goal of the ASC is to monitor and control your compressed-air system and optimize its operation. Features include—

- Integration of complete compressed-air system
- Energy management through load sharing
- Remote communications through network monitoring/real-time data check
- Remote notification of equipment alarm or trip status option
- Report generator with event log and date and time stamp
- Object-oriented graphics and dynamic icons
- Intranet, Internet and LAN capable

**Air System Manager**

The Air System Manager (ASM) is IR’s most powerful computer-based controller. It is designed to incorporate all compressed-air equipment, including ancillary equipment, regardless of make. Based on Wonderware/Intellutions software, a unique solution can be custom configured to meet the needs of the production environment. Additional capabilities include—

- Integration of complete compressed-air system, including auxiliary equipment such as dryers, chillers, cooling towers, etc.
- Energy management through load sharing
- Remote communications through network monitoring/real-time data check
- Remote notification of equipment alarm or trip status option
- Report generator with event log and date and time stamp
- Object-oriented graphics and dynamic icons
- Intranet, Internet and LAN
- Custom software applications
In the past, you asked us to build the best-engineered, most reliable energy-efficient air compressors in the industry. But in today’s global business climate, you need more than great equipment to survive and thrive. Increasing value for our customers means we must go beyond the components of an air system and find solutions to the operating issues every customer faces.

The problems associated with operating a modern compressed-air system are fairly complex. At the same time, many companies have cut back the internal resources dedicated to defining and solving those problems. That’s where IR Audit Solutions can help. Audit Solutions addresses the total process of producing compressed air—not just the compressors. It’s about taking compressed air, looking at it as your fourth utility, and making compressed air as stable and consistent as your other utilities.

**The Benefits**

You can’t manage what you don’t measure. Knowing what your system is doing is the first step in reducing costs and improving productivity. IR’s Audit Solutions can give your plant these critical benefits:

**FEASIBILITY STUDY**
- Analysis by walking around
- Interview operations, finance, management
- Identify potential opportunities from a supply-side audit or full system audit

**SUPPLY-SIDE AUDIT**
- Differentials, signals and set points management
- Pressure drop management yields significant energy savings
- Air quality management results in significant productivity improvements

**FULL SYSTEM AUDIT**
- All audit components previously identified, plus...
- An exact match of optimal demand-side requirements to minimum compressed air consumption
Our Service Pledge to You

Ingersoll-Rand has earned a worldwide reputation for providing the finest customer service available from any manufacturer in its field. We recognize that our customers count on the equipment we build and the services we provide to help keep their production processes running smoothly and without interruption—essential if they are to stay competitive in today’s business environment.

This is a trust that we do not take lightly.

Therefore, we pledge to you—

• Our parts and service network will respond to your needs 24 hours a day, 365 days a year. We will not let you down
• If a problem develops, we will fix it fast and fix it right
• We will stand behind the work we perform
• No matter where in the world you are located, we will be there for you

AirCare

AirCare, an Ingersoll-Rand exclusive, is a responsive and flexible maintenance contract program custom-designed to provide customers with factory-authorized scheduled maintenance for increased system reliability. AirCare helps eliminate unscheduled downtime and relieves customers of the costly investment in monitoring equipment, ongoing training and a thorough knowledge of compressor technology.

The AirCare Program

No long-term maintenance program is more comprehensive than AirCare. The highlights of the program include—

• Certified professional technicians will perform routine inspections and diagnostic service
• Performance will be enhanced through exclusive use of genuine IR parts and lubricants
• All-inclusive fluid analysis program will comprehensively monitor the lubricant in the compressor to detect problems at the earliest possible opportunity
• Vibration analysis diagnostics pinpoint the need for component replacement through monitoring and trend analysis that predicts the service life of critical components

Remote Monitoring

• An added option to AirCare is IR’s Intelliguard remote monitoring feature. This 24-hour-a-day, 7-days-a-week surveillance of the air compressor installation helps identify potential problems at an early stage and prevent unexpected repairs
Ingersoll-Rand compressors are not designed, intended or approved for breathing air applications. Ingersoll-Rand does not approve specialized equipment for breathing air applications and assumes no responsibility or liability for compressors used for breathing air service.

Nothing contained on these pages is intended to extend any warranty or representation, expressed or implied, regarding the product described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Ingersoll-Rand’s standard terms and conditions of sale for such products, which are available upon request.

Product improvement is a continuing goal at Ingersoll-Rand. Designs and specifications are subject to change without notice or obligation.