

# Ingersoll Rand

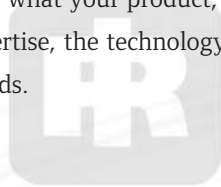
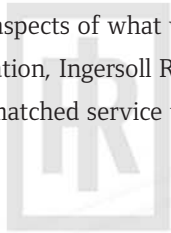
2-25 hp Reciprocating Compressors



# Legendary Performance

For more than a century, Ingersoll Rand has inspired progress by driving innovation through revolutionary technology and talented people.

It's a legacy of creating new standards for how the world gets work done. We're the technology leader in compressed air not only because we develop class-leading products, but also because we stand behind our customers in all aspects of what we do. No matter what your product, process, or location, Ingersoll Rand has the expertise, the technology, and the unmatched service to meet your needs.

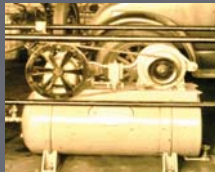


INGERSOLL-RAND

## T-30 Legendary Performance > > >

**1929**

Initial production model of Type-30 design with vertical cooling fins combination of concave and convex tank heads.



**1940s**

Design enhanced with large U-frame motor and improved piping.



**1970s**

First units from Campbellville, KY plant establish a new reputation for workmanship and service.



**1872**

Ingersoll Rand tradition begins with its first reciprocating air compressor.



**1950s**

Updraft air cleaner added.



**1960s**

Modern Type-30 design emerges with horizontal cooling fans, smaller T-frame motor, convex tank heads, fully-welded construction, and drive-belt guards.



## Providing Customer-driven Compressor Solutions

When you've been delivering reliable reciprocating compressor results for more than 100 years, it's natural that your corporate memory and culture support a strong tradition of evolutionary enhancements. Every new generation of employees builds on the experience and insights of their mentors. Today's legendary Ingersoll Rand air compressors started with an original rock-solid design and have steadily improved with added control and performance upgrades over the years.

They are world-renowned for their impressive legacy of long-life performance, ease of service and evolutionary design enhancements.

## Powerful. Durable. Reliable. Built to last.

That's why more than one million Ingersoll Rand reciprocating compressors are still in use around the world today.



**1990s**

Fully packaged units with E-series starters and CSA package certification are introduced.



**2002**

Compact single-stage compressors introduced.



**2003**

Pressure-lubricated model with industrial-grade two-stage air cleaner added.



**1980s**

New enhancements are featured by the first Ingersoll Rand blue-colored units.



**2000**

Premier Series packaging adds dual controls, deluxe starter, and liquid-filled pressure gage.



**2006**

Fully packaged model with aftercooler, automatic tank drain, and low-oil-level shutdown is top choice for round-the-clock applications.



# Durability, Efficiency, Serviceability

Ingersoll Rand

Time-tested design and enhancements establish Ingersoll Rand single- and two-stage reciprocating compressors as the benchmark for:

**Reliability. Durability. Serviceability.  
Innovation. Flexibility.**

With a proven design and stellar track record, the Ingersoll Rand's reciprocating compressor family has earned worldwide recognition for reliable, trustworthy performance that saves money and enhances business success through:

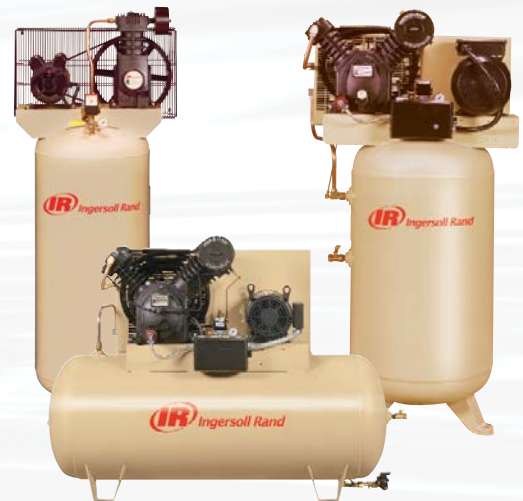
- Lower life-cycle costs,
- An ability to thrive in punishing applications,
- Optimum solutions for greater efficiency,
- Configurations that meet varying needs.

### Some Things Never Change

Due to the laws of physics, there are certain aspects of reciprocating compressor design, construction and performance that have never changed – like cast-iron durability, copper-finned cooling coils, reliable lubrication and easy maintenance. That's where Ingersoll Rand design and operating experience really pays off in terms of long-term productivity and return on investment. Ask any one of the million active Ingersoll Rand reciprocating compressor users around the world.

### Other Things Are Easy to Change

Long before the concept of the "disposable economy" became popular, Ingersoll Rand designed the reciprocating compressors to last a lifetime – thanks to quick, easy maintenance with renewable components. Easy access to the pump components allows for routine maintenance and replacement of parts like the individually cast cylinders, piston wear-sleeves, and the 15,000-hour bearings and easy component replacement lets you amortize your initial capital cost over a much longer equipment life span, for a superior payback in your investment.



## The Ideal Design for Applications Where Air is Taken for Granted

### Maintaining That Leading Edge

For eight decades, Ingersoll Rand has maintained the delicate balance between known performance and new developments, by keeping the best features and upgrading others, as new technology becomes available. The result is higher efficiency for today's energy conscious world, and enhanced value for the extended life of your investment.

### More Good Options Make for An Ideal Fit

Another residual benefit of compressor longevity is our cumulative experience with how different users prefer, need and operate their compressors. Years of tweaking our basic reciprocating compressor design to satisfy the needs of hundreds of thousands of users have taught us what is most important to most users. And that means more choices for you to satisfy your specific needs.

Your choices range from the size of the units, to the sophistication of the features, to popular packaged solutions. There are even gas-powered packages that are perfect for field service, fleet maintenance, remote pneumatic applications, or emergency back-up needs.



Ingersoll Rand single- and two-stage reciprocating air compressors are an ideal choice for applications that demand a reliable air supply for everyday use, but where running an air compressor ranks a distant second to running your business.

- Automotive Shops
- Light Manufacturing
- Processing Lines
- Fabrication
- Construction
- Pneumatic Equipment
- Commercial Applications

# It's All About Choices

Better choices lead to better solutions for saving money and improving overall return on investment in your unique application.

That's why Ingersoll Rand's single- and two-stage reciprocating compressors offer you more choices of compressor sizes and compressor features to suit your needs to a "T." If you define unsurpassed performance by maximum operating pressure, increased air flow, and extended duty cycles, count on a reciprocating air compressor to deliver it reliably, at up to 175 psi and 82 cfm.

Take advantage of Ingersoll Rand's expertise, product selection, service, and system solutions to help you identify the optimum compressor size, performance features, and package options for your applications. And learn how you can strengthen your business through:

- Lower operating costs
- Increased productivity
- Improved quality
- A better working environment

## Single-Stage Compressor Features

Configured in space-saving stationary and portable models, these durable compressors are a favorite with DIY homeowners and in the construction industry. Our heavy-duty air sled model is ideal for rentals, featuring a protective external frame and ASME receivers. All models feature:

- An industry-leading 5,000-8,000 hour design life
- Industrial-quality cast iron construction
- A reliable high-speed valve design
- A fully-balanced crankshaft that reduces vibration



# Why Ingersoll Rand Pumps Are Better... Excellence in Design!

## Basic/Value Package Features

This most economical choice in a dependable compressed air source, the base package offers the perfect solution for commercial, automotive and light industrial applications with intermittent load demands:

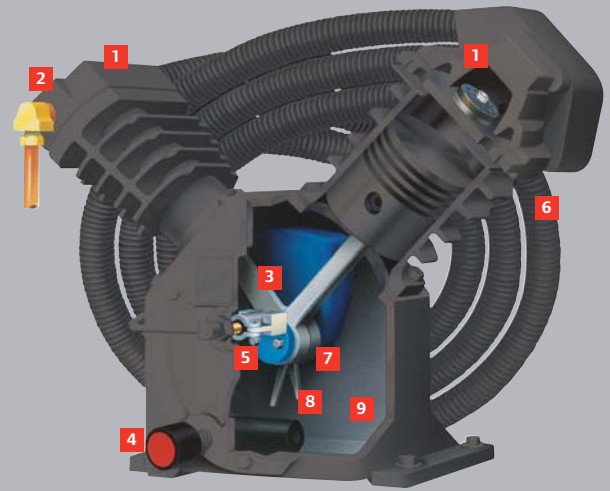
- Durable 100% cast iron construction pump rated for 15,000+ hours
- Automatic start/stop pressure switch operation
- Oil sight glass
- Manual tank drain
- Intermittent duty cycle



## Fully Packaged Features

For applications that demand a heavier duty cycle or greater control, step up to an enhanced version of our base solution that is fully packaged for improved air quality and safety in round-the-clock applications, including:

- Extended duty cycle
- Low oil-level switch
- Air-cooled aftercooler
- Electric drain
- Centrifugal unloader (in the 10-25 hp range)
- Heavy-duty two-stage inlet filters (in the 20-25 hp range)



- 1 Two-stage Design:** Delivers pressures up to 175 psi.
- 2 Radial Fins for Maximum Cooling:** Even 360° cooling of barrel cylinders eliminates hot spots.
- 3 One-piece Connecting Rod:** Fewer wearing parts.
- 4 Low Oil-level Switch:** Provides constant protection.
- 5 Centrifugal Unloader:** Ensures loadless starts, for maximum starter protection.
- 6 Integral Fan Blade/Finned Copper Intercooler:** Runs cooler, even in the most demanding conditions.
- 7 Overhung Crankshaft:** Precision balanced to run smoothly and quietly; simplifies maintenance and wear-sleeve replacement.
- 8 Splash Lubrication:** Simple and reliable.
- 9 100% Cast Iron:** Designed for a lifetime.

# Selection Guide

## 1. Select Your Compressor

### Stationary or Portable Design

**2-Stage Air Compressor, NEMA 1, ODP Motor, ASME Coded Air Receiver**

**Mounted Motor Starter**

**Oil Sight Glass**

**Low Oil Level Switch**

Extends pump life by preventing operation if oil level is too low

**Electric Drain**

Automatically drains water from tank

**Air-Cooled Aftercooler**

Removes 60% of water from air lines

### Single-Stage



### Basic/Value Package



### Fully Packaged



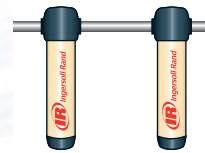
## 2. Choose Your Air Quality

Ingersoll Rand compressed air treatment equipment is used to remove contaminants present in a compressed air system

### Shop Quality Air

General system protection removes bulk liquid and solid contaminants:

- Light manufacturing
- Light auto service shop
- Pneumatic tools
- Dry cleaning



### Dry, Clean Air

Complete system protection removes liquid and solid contaminants:

- Medium-to-heavy manufacturing
- Large auto service shop
- Auto body shop
- Printing
- Laundry
- Instrumentation



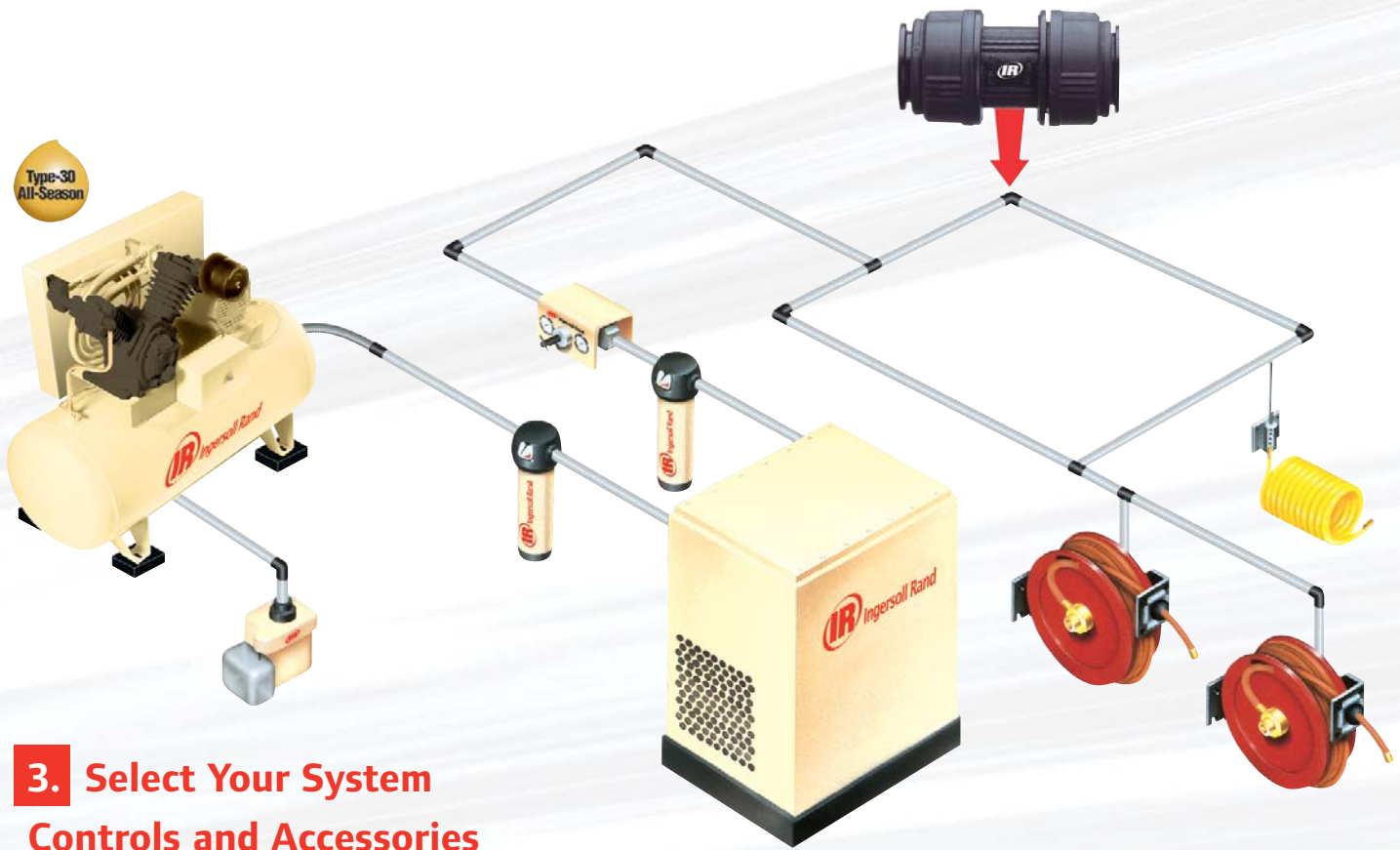
### Critical Quality Air

Applications that require virtually no water vapor or contaminants:

- Advanced pneumatics and instrumentation
- Spray application booths
- Piping that is exposed to freezing temperatures







### 3. Select Your System Controls and Accessories

Ingersoll Rand accessories are available for all power sources.

#### PacE™ Controller

- Conserve energy
- Reduce leak losses
- Control pressure  $\pm 1$  psig
- Increase system productivity



#### EZ-Line Simplair Compressed Air Piping

- High-quality anodized aluminum pipe
- Non-corrosive piping
- Improves air quality
- Higher flow rates than other piping



#### EDV-2000 Electric Condensate Drain

- Automatically removes moisture from tanks, compressors, filters, drip legs



#### Condensate Separators

- Efficient oil/water separation
- Removes oil from condensate
- Allows for clean water discharge



### 4. Choose Your Warranty Solutions

#### Two-Year Extended Pump Warranty

with the purchase of a start-up kit at the time of compressor purchase



#### Five-Year Extended Tank Warranty

with the purchase of an install kit at the time of compressor purchase



#### Five-Year Extended Tank Warranty

with the purchase of an extended warranty at the time of compressor purchase

# Protect Your Investment

The whole idea behind Ingersoll Rand reciprocating compressors is to enable you to devote more of your attention to the operation of your business and less of it to the operation of your compressor.

**With that in mind, Ingersoll Rand provides additional products and services to help you derive the maximum value from your compressor investment over the long haul.**

## **Get Started Immediately**

Once you've selected your optimum compressor package and air system components for quick delivery from stock, let our qualified Ingersoll Rand service representatives assemble and install the total solution – ready for you to flip the switch. Our full range of services increase system longevity and maximize efficiency.

## **Create the Environment for Success**

For the added protection of your compressor equipment and your employees, Ingersoll Rand offers special application packaging. NEMA 4 enclosures protect against dirt and moisture in indoor and outdoor environments. NEMA 7 enclosures are also available to protect equipment and employees in indoor hazardous environments.

## **Keep Your Equipment Humming**

Despite the most demanding work loads, a variety of maintenance kits and genuine Ingersoll Rand parts are available to protect the core of your equipment investment with the consumable items and replacement parts you need to accommodate normal wear and keep your unit operating at peak efficiency.

Predictive maintenance services – including optional fluid, air quality and vibration analysis services – are also available to help you ensure equipment longevity, maximize productivity, and save potentially thousands of dollars in long term costs.

## Single-Stage



Model	hp	Tank	Capacity (cfm) @90 psi	Max Pressure	Dimensions (LxWxH in.)	Net Weight (lbs.)	NPT Outlet (in.)	Start-up Kit
SS3R2-GM	2.00	24-Gal./Hour	5.70	135	-	-	.375	97338099
SS3F2-GM	2.00	30-Gal./Hour	5.70	135	46x25x35	185	.375	97338099
SS3J3-AS	3.00	8-Gal. Twin	11.3	135	-	-	.375	97338099
SS3J5.5GH-AS	5.50	8-Gal. Twin	11.8	135	38x19x27	177	.375	97339501
SS3J2-WB	2.00	8-Gal. Twin	5.70	135	43x18x25	175	.375	97338099
SS3J3-WB	3.00	8-Gal. Twin	11.3	135	43x18x25	175	.375	97338099
SS3J5.5GB-WB	5.50	8-Gal. Twin	11.8	135	43x18x25	175	.375	97339501

## Basic/Value Package



Model	hp	Tank Size/ Configuration	Capacity (cfm) @175 psi	Max Pressure	Dimensions (LxWxH in.)	Net Weight (lbs.)	NPT Outlet (in.)	Startup Kit
2340L5	5.00	60-Gal. Vertical	14.0	175	20x33x69	400	.50	32305880
2340N5	5.00	80-Gal. Vertical	14.0	175	24x33x67	430	.50	32305880
2475N5	5.00	80-Gal. Vertical	16.8	175	26x38x70	500	.75	32305880
2475D5	5.00	80-Gal. Horizontal	16.8	175	67x23.5x47	535	.75	32305880
2475N7.5	7.50	80-Gal. Vertical	24.0	175	26x38x70	500	.75	32305880
2545E10V	10.0	120-Gal. Horizontal	35.0	175	73x28x51	835	.75	32305898
2545K10V	10.0	120-Gal. Vertical	35.0	175	44x32x82	985	.75	32305898
7100E15V	15.0	120-Gal. Horizontal	50.0	175	72x29x57	1035	1.0	32305898

Available voltages: 230/1/60 (5-7.5 hp only), 200/1/60 (2475 5 hp), 200/3/60, 460/3/60  
 \*Comes with air-cooled aftercooler and electric tank drain.

## Fully Packaged



Model	hp	Tank Size/ Configuration	Capacity (cfm) @175 psi	Max Pressure	Dimensions (LxWxH in.)	Net Weight (lbs.)	NPT Outlet (in.)	Startup Kit
2475N5 FP	5.0	80-Gal. Vertical	16.8	175	30x37x73	500	.75	32305880
2475D5 FP	5.0	80-Gal. Horizontal	16.8	175	67x24x47	535	.75	32305880
2475N7.5 FP	7.5	80-Gal. Vertical	24.0	175	26x38x70	500	.75	32305880
2545E10 FP	10.0	120-Gal. Horizontal	35.0	175	72x30x56	835	.75	32305880
2545K10 FP	10.0	120-Gal. Vertical	35.0	175	44x32x82	850	.75	32305880
7100E15 FP	15.0	120-Gal. Horizontal	50.0	175	72x30x56	1035	1.0	32305880
15TE15 FP	15.0	120-Gal. Horizontal	53.0	175	72x30x61	1400	1.0	32305906
2000E20 FP	20.0	120-Gal. Horizontal	72.0	175	75x45x67	2050	1.0	20102877
2000E25 FP	25.0	120-Gal. Horizontal	82.0	175	75x45x67	2050	1.0	20102877

Available voltages: 230/1/60 (5-7.5 hp only), 200/1/60 (2475 5 hp), 200/3/60, 230/3/60, 460/3/60

# Accessories for a Complete Air System

Your system is much more than just an air compressor. It's the complete system — the piping, filters, dryers, drains, hoses, valves, and point-of-use tools.

## PacE Air System Pressure Controllers

Our PacE air controllers provide total air system control through a single device, giving you the ability to see both upstream and downstream pressures from one convenient location.

- Energy savings – 7% for every 14 psi reduction in system pressure
- Single point system control
- Protection for all downstream equipment
- Prolonged compressor and equipment life
- Simple installation and operation
- Reduced maintenance costs

## EDV-2000 Electronic Drain Valve

The EDV-2000 is a full-feature automatic electronic drain valve that cost-effectively removes condensate from compressors, receivers, dryers, aftercoolers, filters and drip legs.

- Manual test button
- Two-year warranty
- Rust prevention
- Delivery of drier air to extend the tools and equipment life
- Elimination of manual draining

## Inline Filters

Ingersoll Rand coalescing filters save energy and protect your tools, machinery and equipment from harmful contaminants by effectively removing solid particulates, liquid water, oil and aerosols from compressed air.

- Exceeds ISO air quality
- Quickest, simplest maintenance of any filter design
- Built-in safety protection
- Lowest pressure drop available
- Corrosion-resistant treatment
- 10-year housing guarantee



PacE Air System Pressure Controller

EDV-2000 Electronic Drain Valve



## Simplair EL Aluminum Piping

Simplair EL is designed to provide an efficient, low-cost method of installing compressed air piping systems. Push-in fittings and Simplair EL piping provide the ideal connection from the compressed air receiver, throughout the entire distribution system, right to the point-of-use.



Using the Simplair EL system, a compressed air system can be installed quickly and easily, considerably reducing the need for specialist staff and reducing production downtime. There is no need to prepare threaded pipe or apply solvent – all connections can be made with a simple push-in action. Complex systems can be assembled and disconnected much more rapidly than with traditional methods, making it easy to alter or extend your air system as necessary.

- High-quality air
- Easy and fast installation
- Higher flow rates
- Reduced pressure loss
- More efficient air delivery

## Filters, Regulators and Lubricators (FRLs)

FRLs provide point-of-use fluid conditioning to enhance tool longevity and process quality. Filters remove rust, scale, and condensation that increase wear on tools, regulators provide constant pressure with varying upstream pressure, and lubricators provide lubricating oil to tools, cylinders, valves, and other equipment.



## Hose Reels

Our low pressure ultra duty hose reels come in two models:

- All steel construction with a durable powder coat finish
- Tough glass-filled composite reel combined with a steel base for excellent durability at a great value



## Start-up Kits

Ingersoll Rand offers All Season Select®-based start-up kits to provide improved protection. Each kit contains all the parts needed to correctly start up and maintain your compressor for the first year. The start-up kits provide everything you need for 2,000 hours of service between change-outs under normal operating conditions, along with the added protection of a 2-year extended warranty.

All start-up kits include:

- All Season Select® lubricant, our synthetic, all-temperature blend designed to increase efficiency, reduce wear and prevent carbon build-up
- Replacement air filter elements
- Product sheet
- Proof-of-warranty decal

# Global Reach, Local Service

No matter where your facility is located, Ingersoll Rand is committed to serving you 24 hours a day, seven days a week. Our worldwide network of certified, factory-trained technicians and engineers are a phone call away. They are ready to support you with innovative and cost-effective service solutions that will keep you running at peak performance.

## AirCare Advantage

We understand that uptime is critical to your operation. That's why we offer AirCare Advantage — a responsive, flexible contract maintenance program custom-designed to provide factory-authorized scheduled maintenance that ensures increased system reliability. AirCare Advantage helps eliminate unscheduled downtime and relieves you of costly investments in monitoring equipment and ongoing training. The program also provides a thorough knowledge of compressor technology.



# Count on Ingersoll Rand for All Your Aftermarket Needs

## Air Quality

- Filtration
- Dryers
- Point-of-use air treatment
- Air sampling test kits
- Dew point meters

## Environmental

- Condensate management
- Lubricants
- Water filtration

## Installation

- SimplAir piping system
- Fusible disconnects
- Intelliflow system pressure control
- Drains

## Maintenance

- Hard parts
- Consumables
- PM contracts

## Power Management

- Variable speed drives
- Line reactors
- Safety switches

## Energy Efficiency

- System air pressure controllers
- Automated air system controls
- No-loss drains
- System audits





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 and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

[www.ingersollrand.com](http://www.ingersollrand.com)

**Industrial Technologies**  
P.O. Box 1840  
800-D Beaty Street  
Davidson, NC 28036  
(704) 655-5000  
(704) 655-4039 Fax



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