

# *Centac<sup>®</sup> Centrifugal Air Compressors*



# A Tradition of Proven Reliability, Efficiency and Productivity



## Over 100 years of Oil-Free Innovation

We introduced our first oil-free centrifugal compressor in 1912, and over the decades we've continued to develop rugged, reliable, industry-leading compressor technologies. Ingersoll Rand has become the leader in oil-free centrifugal compressed air because our technological advances are designed for the specific performance needs of our customers' industries. No matter what the application, Ingersoll Rand centrifugal compressors help eliminate inefficiencies, contaminants and breakdowns that can result in costly downtime, product liability or damage to your brand reputation, while reducing total lifecycle costs.

# The Centrifugal Technology Your Industry Demands



## RELIABILITY

### Superior Design, Superior Life

- Fewer moving parts means less downtime
- Dynamically balanced rotor assemblies ensure extremely low vibration
- Carbon ring seals minimise air leakage

Lowers cost of ownership

## EFFICIENCY

### Optimized Components and Systems

- Multi-stage compressors combine performance with energy savings
- Advanced impeller design provides maximum pressure control over the widest operating range

Reduces energy use and operating costs

## PRODUCTIVITY

### User-Friendly Operation and Accessibility

- Easy-access components make maintenance faster and easier
- Simplified compressor design provides longer intervals between maintenance

Maximises uptime



Centac® C1000

## Oil-Free, Risk Free

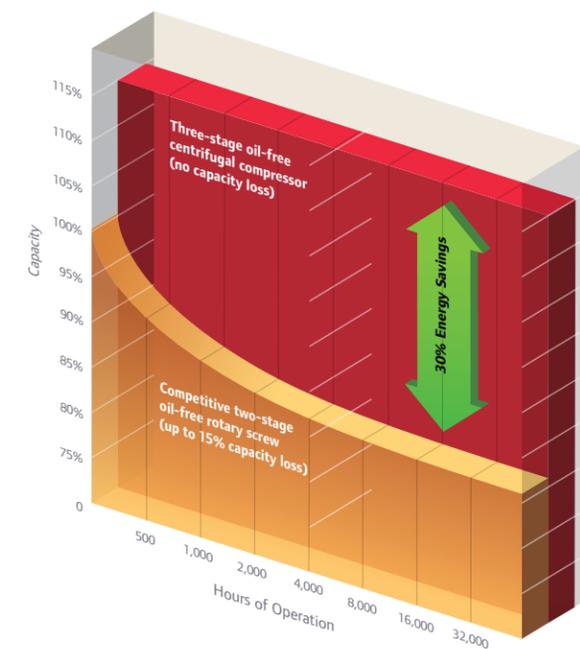
The first to be certified ISO 8573-1:2001 Class 0, our oil-free centrifugal compressors offer efficient, economical and reliable solutions for delivering compressed air. These high-performing, versatile compressors provide 100% oil-free air in all operating conditions.



Centac® C3000

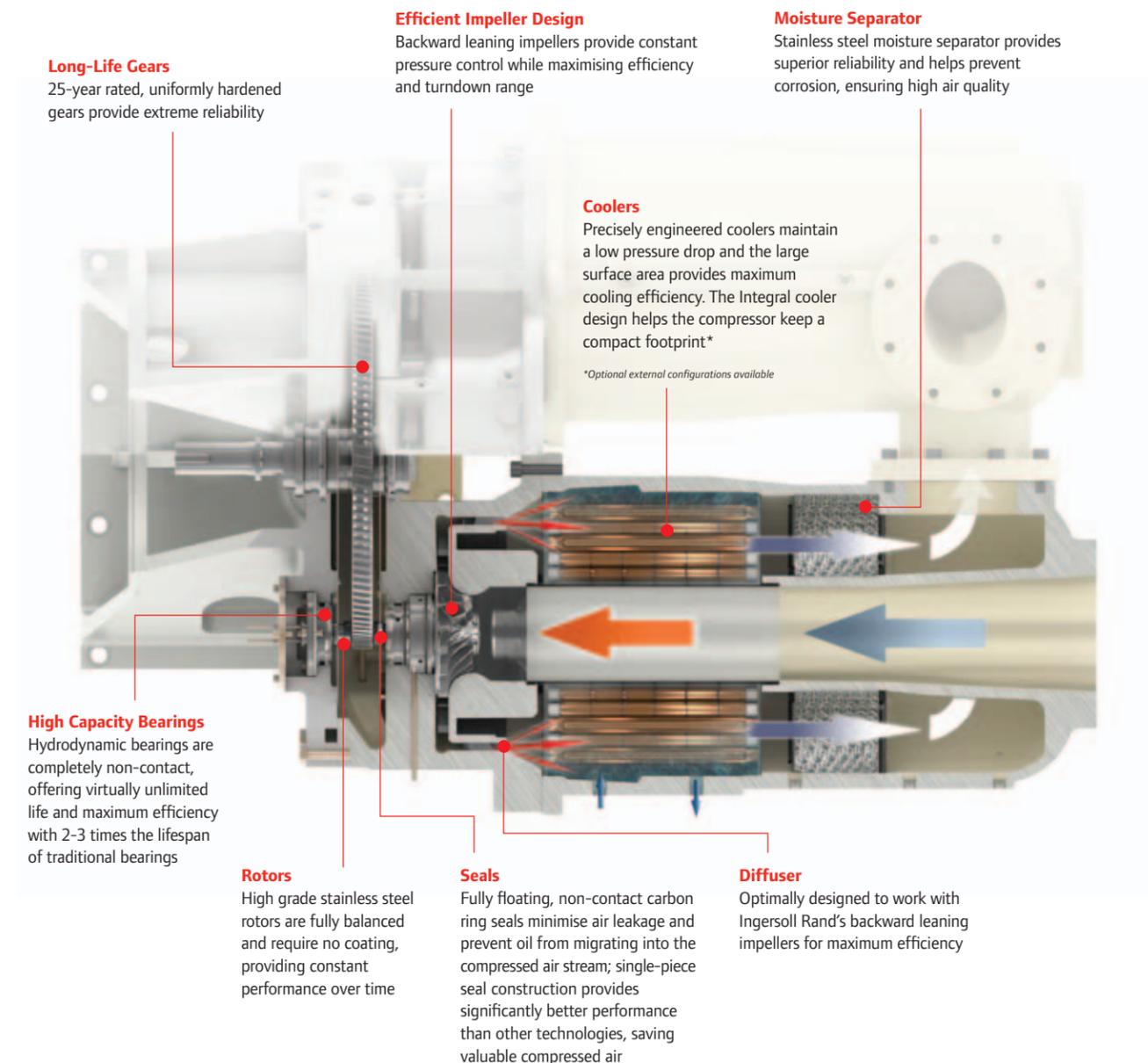
## Greater Capacity for Greater Efficiency

Ingersoll Rand centrifugal compressors offer up to a 15% capacity advantage over competitive two-stage, oil-free compressors. This advantage increases to as much as 30% as our capacity remains constant, while competitive capacities decrease by up to 15%.



# Centac®...Engineered for Performance

Ingersoll Rand centrifugal compressors are designed for applications where reliability, productivity and efficiency are essential to getting the job done right...and the compressor's packaged design makes it easy to install wherever needed.



# Advanced Centrifugal Control

## Optimise Your Compressed Air System with Xe-Series Controls

The Ingersoll Rand Xe-Series controller uses the latest control algorithms to help lower energy consumption. Built-in control logic ensures system reliability by precisely managing discharge pressure and maximising throttle range. The controller's intuitive, high-resolution color display makes critical information quick and easy to find. And with web-enabled alerts, the Xe-Series controller helps you maintain optimal operation automatically.



**Web-Enabled Communication**

- Start/stop/load/unload and checks parameters remotely
- Email notification of alarms and trips
- Built-in performance reporting and visual trending with automated inspection logs

**More Connectivity Choices**

- Communicates directly with your DCS system through Modbus
- Ethernet connection enables communication and control through tablets, computers or mobile devices
- Connects seamlessly with Ingersoll Rand system controls
- Sequences up to four additional controlled compressors with no additional hardware

**Intelligent Compressor Control**

- Constant Pressure Control** - Continually maintains precise discharge pressure to adjust for sudden demand variations
- Auto Dual Control** - Provides enhanced energy savings during partial load conditions
- Energy Smart Set Point (ESS)** - Adjusts settings to balance and share loads between multiple compressors in the same system, reducing bypassed air and saving energy

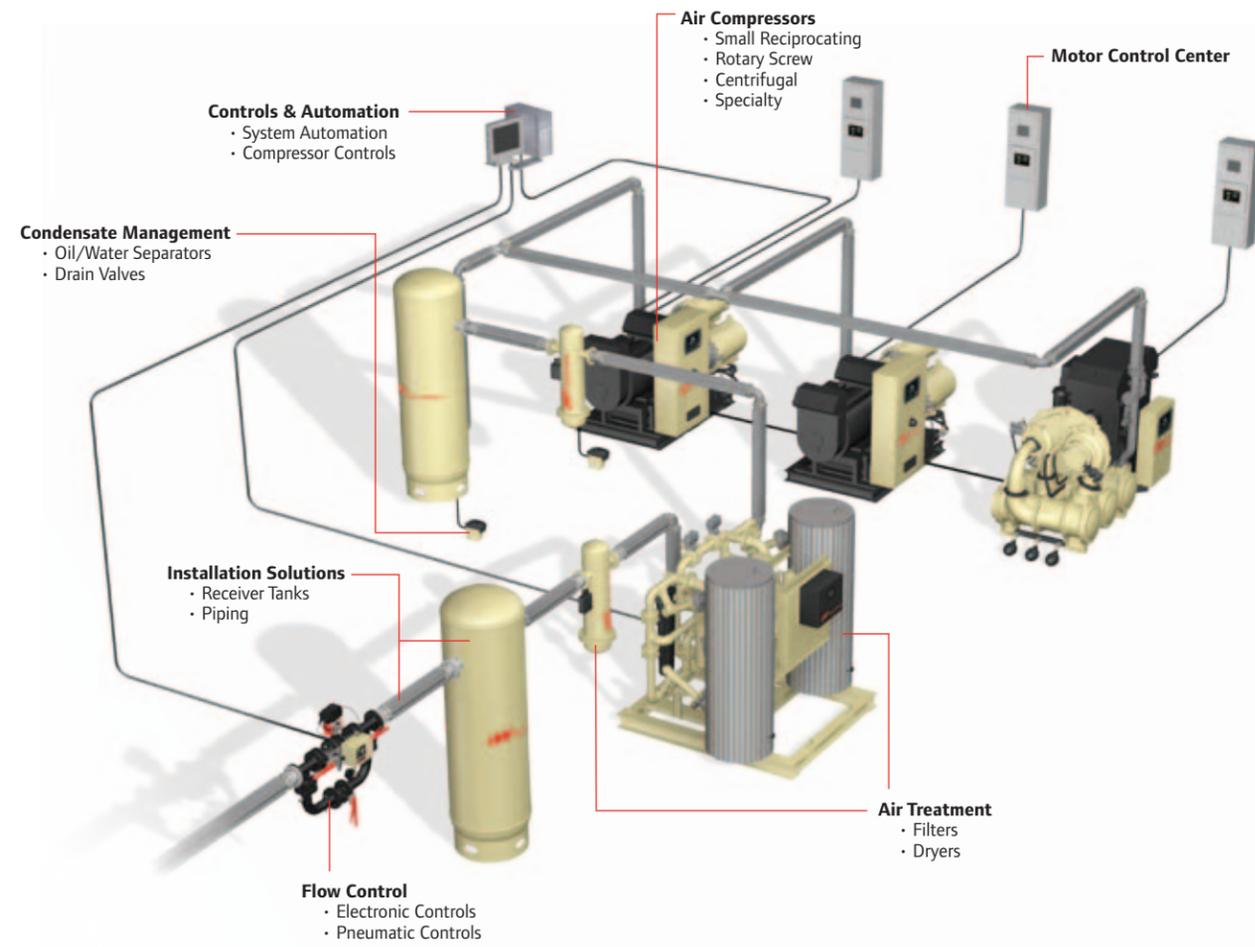
# We Build Solutions

We do more than build products at Ingersoll Rand. We bring our customers unmatched experience in designing comprehensive compressed air systems that cover virtually any need.

## Systems and Support to Keep You Productive

Ingersoll Rand not only designs and builds extremely efficient air systems, it solves process and business problems as well. This helps customers succeed in today's global economy through enhanced reliability, energy efficiency and productivity.

No matter what your industry or location, Ingersoll Rand is committed to serving you 24/7. Our worldwide network of distributors, engineers and certified, factory-trained technicians are a phone call away—ready to support you with innovative, cost-effective and performance-enhancing solutions.



Low Pressure 0.35-2.10 bar g (5-30 psig)					
Model	Flow		Power		
	m <sup>3</sup> /min	cfm	kW	hp	
CH5	42 - 80	1,300 - 3,000	132 - 270		175 - 350
CH6	90 - 160	3,000 - 6,000	270 - 430		350 - 600

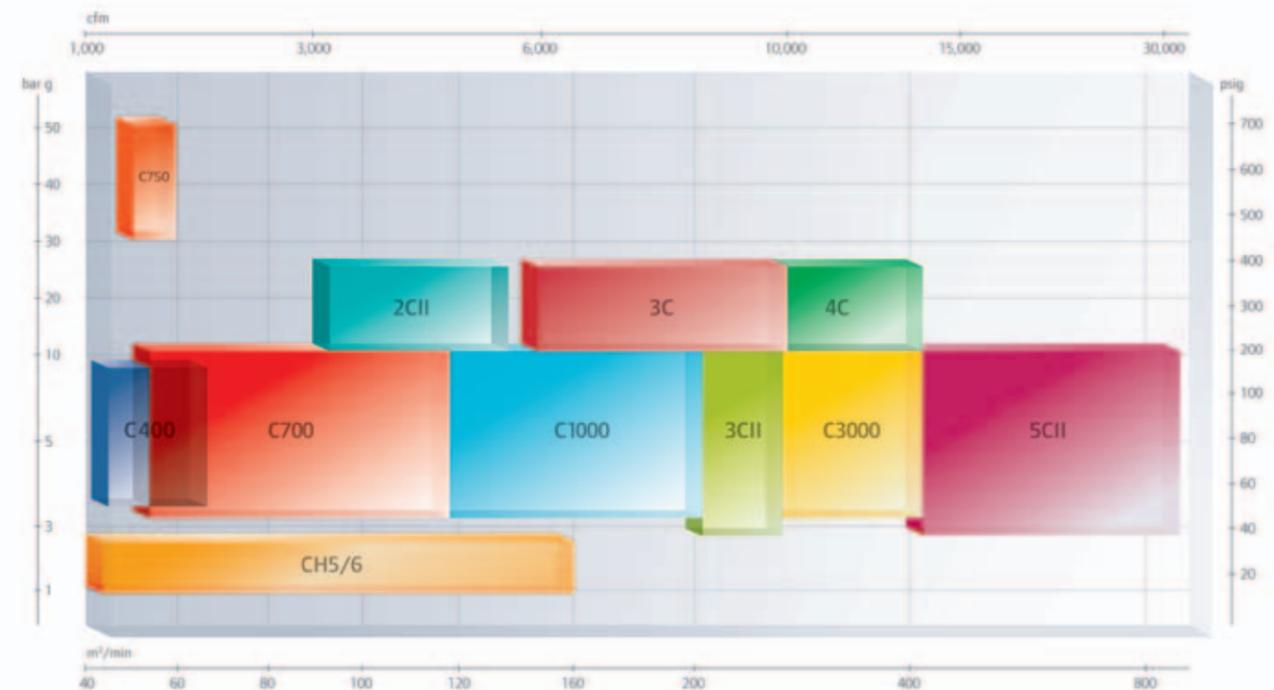
Standard Pressure 3.1-10.3 bar g (45-150 psig)					
Model	Flow		Power		
	m <sup>3</sup> /min	cfm	kW	hp	
C400	45-67	1,600-2,350	260-400		350 - 500
C700	54-119	1,900-4,200	200-700		300 - 900
C1000	127 - 212	4,500 - 7,500	350 - 1,300		500 - 1,750
3CII	187-280	6,600-10,000	670-1,600		900-2,000
C3000	270-420	9,500-15,000	1,000-2,400		1,500 - 3,500
5CII	450-850	16,000-30,000	1,500-4,600		2,000 - 6,000

High Pressure 10.3-42.0 bar g (150-610 psig)					
Model	Flow		Power		
	m <sup>3</sup> /min	cfm	kW	hp	
2CII	90 - 130	3,000 - 4,600	750 - 1,300		1,000 - 1,750
C750	50 - 60	1,800 - 2,100	500 - 660		700 - 900
3C	140 - 285	5,000 - 10,000	1,300 - 2,250		1,750 - 3,000
4C	255 - 425	9,000 - 15,000	1,500 - 3,350		2,000 - 4,500

Weights and dimensions are estimated and will vary with scope and options. Performance is nominal. Please contact Ingersoll Rand for specific data.

## Our Broad Range of Centac® Family Compressors





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. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals. For more information, please visit [www.ingersollrandproducts.com](http://www.ingersollrandproducts.com).

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