

# *MSG<sup>®</sup> 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.

## 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

Provide 100% oil-free compressed air under any operating conditions

**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

A visually intuitive and web connected controller

**Maximises uptime**



# The Centrifugal Technology Your Industry Demands



## 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.

Class 0  
ISO 8573 **Oil-Free Air**

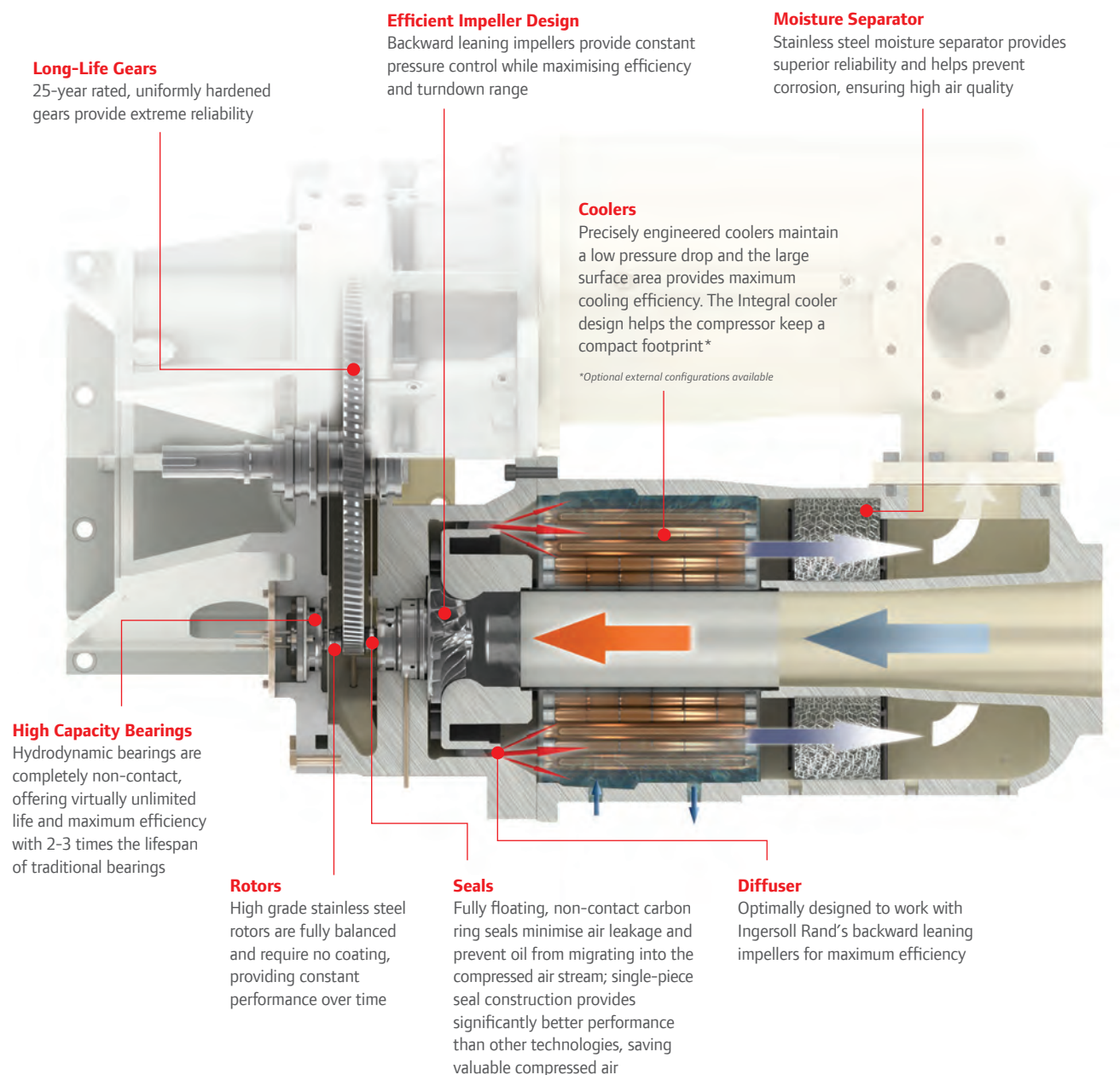
The ISO 8573-1:2001 zero level standard specifies the quality standards for compressed air used in most industries with strict process requirements. It is the strictest grading standard that specifies the quantity standards for oil content in three forms: liquid, mist, and vapor. If your production process requires absolutely pure compressed air, Ingersoll Rand will be your top choice.





# MSG<sup>®</sup> Centac<sup>®</sup>...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.



# Intelligent Air Compressor Control – The Key to System Productivity

Ingersoll Rand controllers can effectively control variables that affect operating costs and production capacity, helping you provide productivity

An intuitive high-definition color display provides you with a window to monitor all important information about the air compressor. In addition to ensuring high performance of the equipment, it also predicts maintenance status by continuously monitoring and mastering the development trend of key data. In order to improve productivity and facilitate use, the controller has an open web structure, allowing operators to remotely operate the air compressor from almost anywhere.



## 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
- There are 26 languages to choose from



## 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

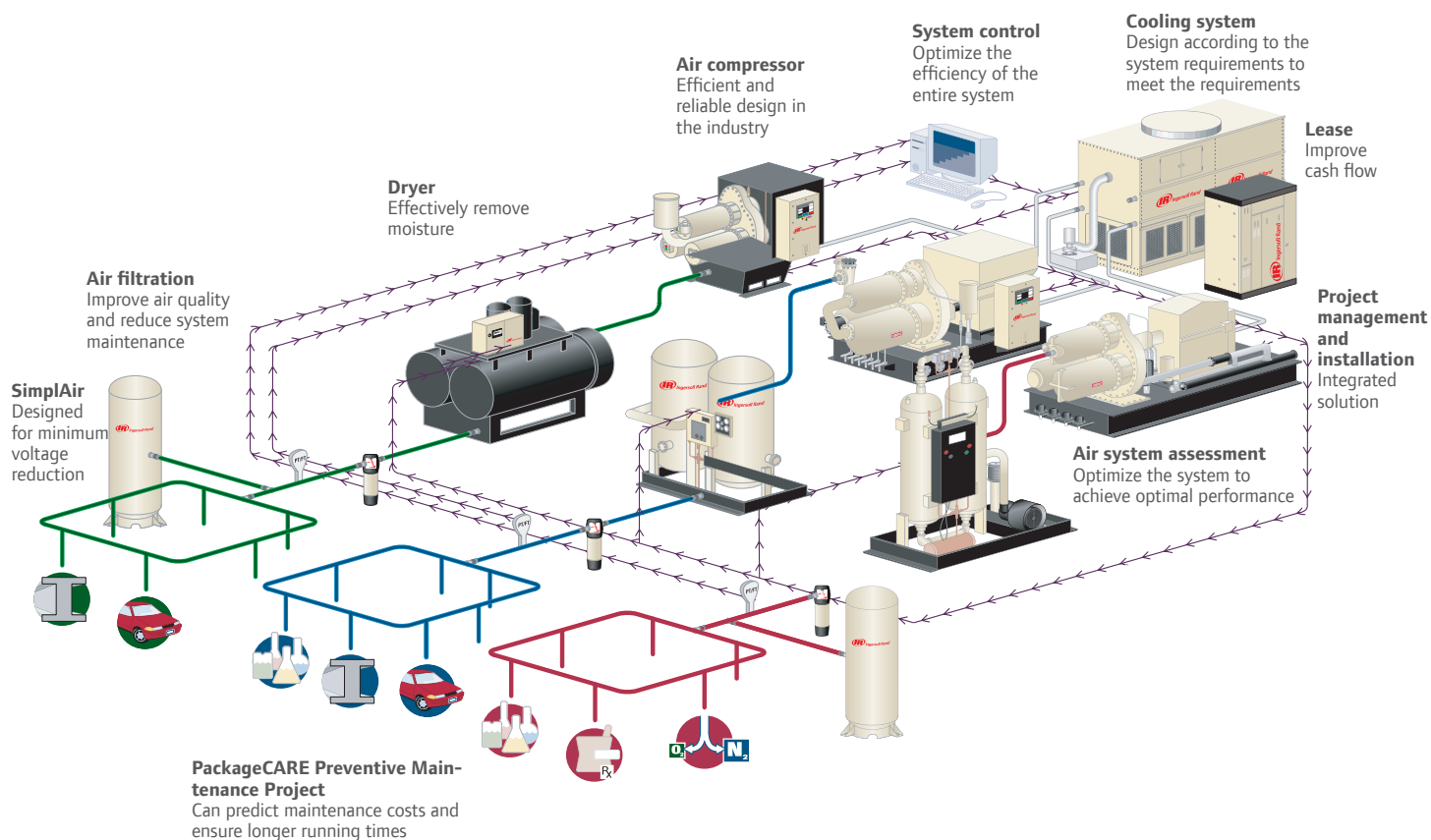
# We Build Solutions

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

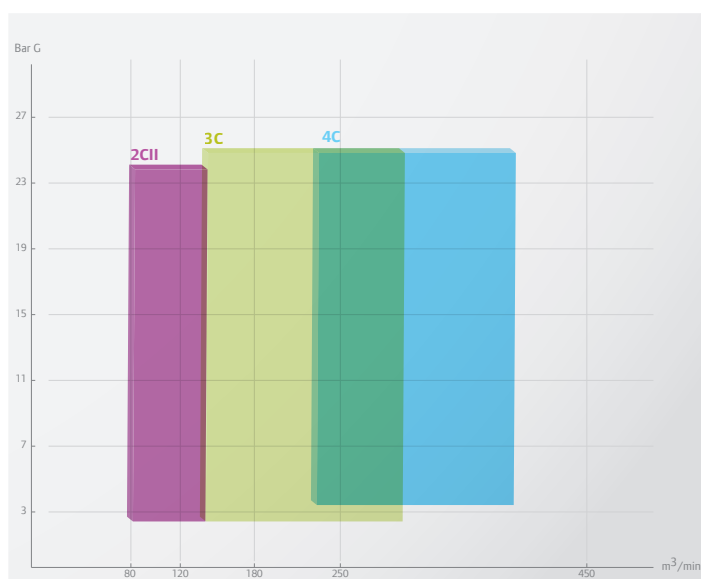
Ingersoll Rand not only designs and builds extremely efficient air systems, it solves process and business problems as well. This helps customers succeed in today's global economy through enhanced reliability, energy efficiency and productivity.

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.

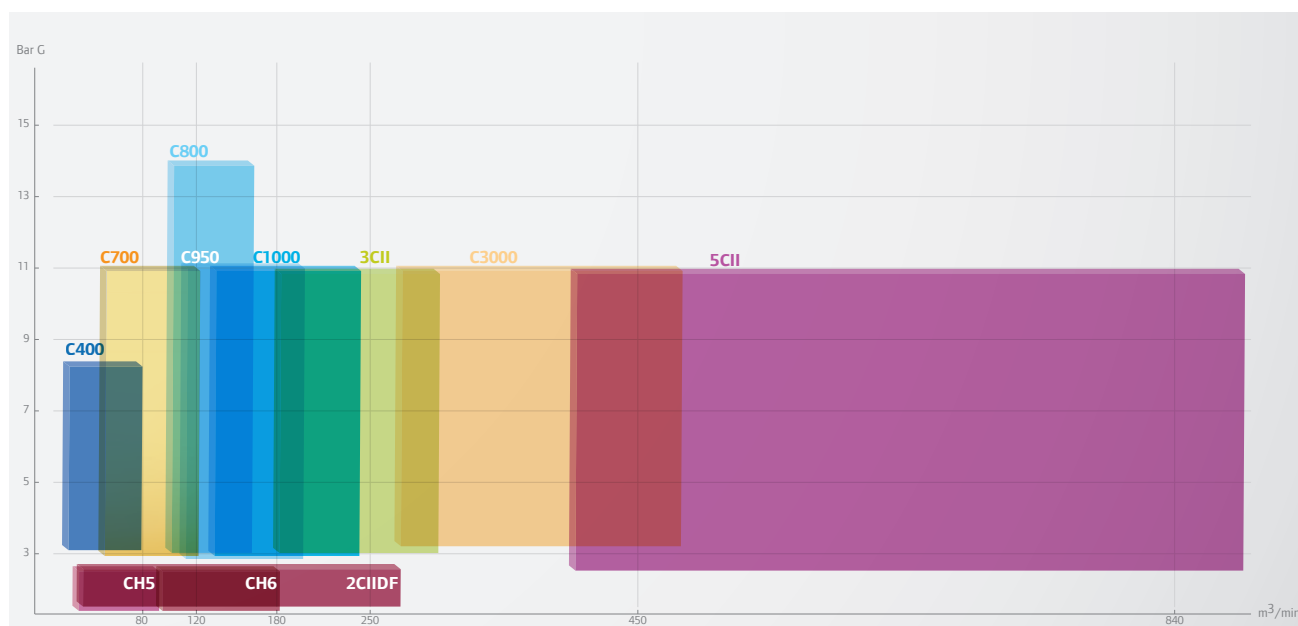


Model	Flow Range		Pressure Range	
	m <sup>3</sup> /min	icfm	bar	psi
C400	35~70	1250~2500	3.4~8.6	49~125
C700	45~120	1500~4200	3~11	45~160
C800	100~160	3500~5700	3~14	45~200
C950	110~195	3900~6700	3~11	45~150
C1000	130~240	4600~8500	3~11	45~160
3CII	180~300	6400~10600	3~11	45~160
C3000	270~480	9500~17000	3.5~11	50~160
3C	140~300	5000~10000	2.5~25	36~360
4C	280~480	9000~17000	3.5~25	50~360
5CII	400~900	14000~32000	2.2~11	30~160
CH5	30~90	1100~3200	0.7~2.2	10~30
CH6	90~180	3200~6350	0.7~2.2	10~30
2CII	80~140	2825~5000	2.5~24	36~350
2CIIDF	35~270	1250~9500	1.1~2.2	15~30

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



**MSG® Centac® Full range of centrifuges**  
**Meet the needs of your various industries**





Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to Making Life Better for our employees, customers, shareholders, and planet. Customers lean on us for exceptional performance and durability in mission-critical flow creation and industrial solutions. Supported by over 80+ respected brands, our products and services excel in very complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity, and efficiency. For more information, visit [www.IRco.com](http://www.IRco.com).

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