The Ultimate Energy Efficient Compressed Air Systems

Lean on us to save energy and the planet



NX5000 & C700n Oil-Free Fixed & Variable Speed Centrifugal Air Compressors

www.ingersollrand.com

Next Generation Energy Efficiency

Innovative Technology with Clear Advantages

Integrally geared centrifugal compressors represent the latest technology, offering significant advantages over outdated, less-efficient and more costly compressor designs. These advantages are inherent in the centrifugal design and translate into lower operating costs and a quick return on your initial investment.

Lean on Ingersoll Rand to Increase Energy Efficiency

Considering that over 80% of electricity produced globally is generated by fossil fuel, working with us makes sense – where energy efficiency is a top priority. Save money, energy and the environment – why wouldn't you?

Designed with the customer in mind, Ingersoll Rand's MSG® centrifugal compressors – just part of our market-leading air compressor product range, provide industry-leading efficiency, reliability and lower overall total cost of ownership. In addition, innovative features deliver maximum uptime, hassle-free operation, and reduced maintenance needs. Their packaged design makes them easy to install wherever needed. Every component of these compressors is mounted, piped and wired for convenient, single-point air and electrical connection.



MSG® TURBO-AIR® NX5000

Flow: 125-210 m^3/min
Pressure: 2.5-14.5 barg

The **Features** are **YOUR Benefits**:

- **Efficient class-leading design with advanced design impellers** minimizes losses and provides up to 5% increased specific power than competitive models
- **Optimized stage and gas passages** designed to ensure stable, high-efficiency operation
- **Turndown range typically exceeds 30%** and allows use in a range of scenarios without the need to unload or shutdown in periods of low demand
- **Variable inlet guide vanes** offer up to 9% power savings when operating in turndown vs standard inlet butterfly valves



MSG® Centac C700n with Variable Speed Drive

Flow: 55-115 m^3/min
Pressure: 3.1-10.5 barg

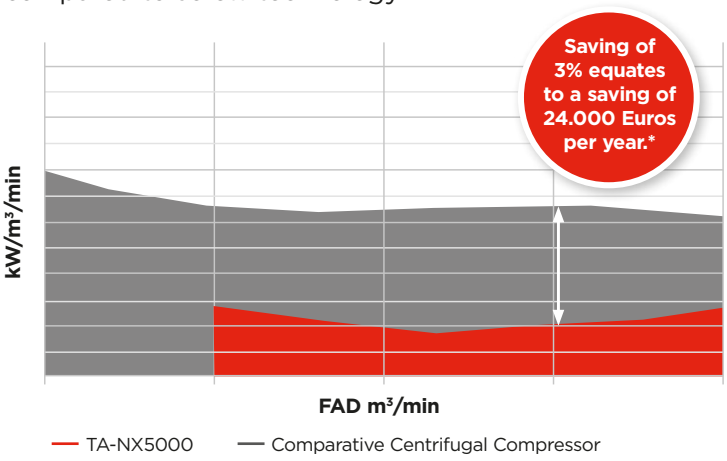
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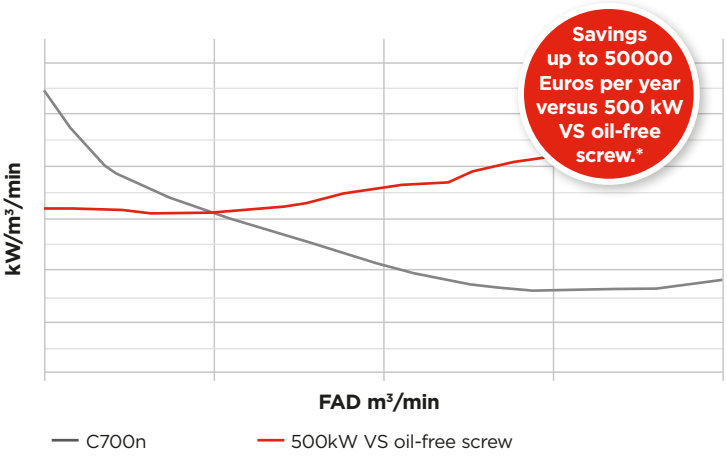
- **Up to 35% energy savings** compared to traditional fix speed compressors
- **Up to 50% throttling range** for maximum flexibility
- **10% expanded capacity** to cover unusual peaks of system's demand
- **Retrofittable** solution on installed units
- **Multi-stage compression** with multiple Inlet Guide Vanes combine performance with energy savings and wide turndown
- **Intuitive, energy-saving controller** can be remotely accessed from virtually anywhere



Energy Efficiency is our Number One Priority

Centrifugal technology with its application-specific aerodynamic design and multiple stages compression can help maximizing savings versus rotary screw technologies, both at full load and partial loads. Reduced number of rotating elements minimizes also components wear, performance degradation and maintenance costs compared to screw technology.



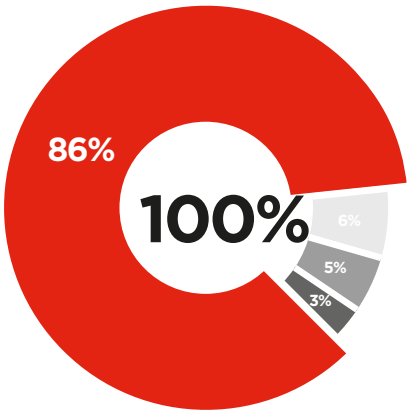


Maximize Your Energy Savings

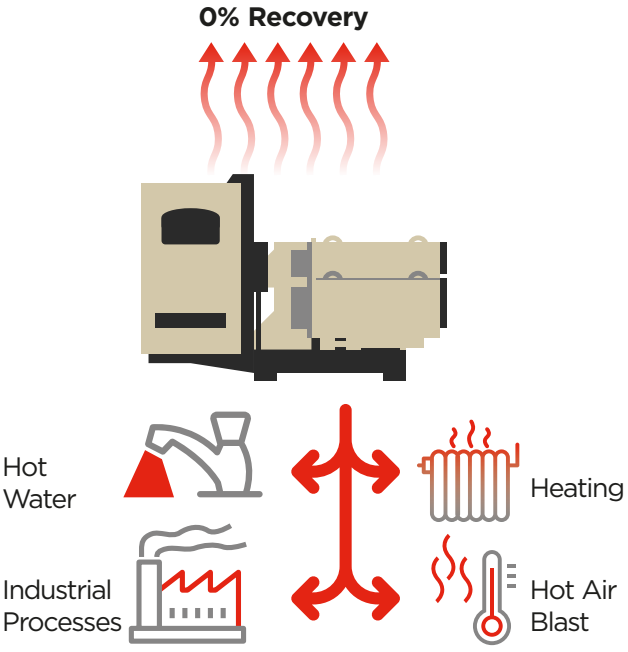
* At 0,15 Euro/kWh & 8000 h/y. For C700n an operating case with flow request of 100% (3000 h), 75% (3000 h) and 50% (2000 h) of the design flow has been considered.

Integrated or Retrofit Heat Recovery

Up to 91% of the electrical power consumptions from the compression can be recovered for hot water use, industrial processes or heating



- **86%** Heat recoverable from compressed air aftercooler
- **6%** Heat radiated from drive motor dissiplated into cooling air
- **5%** Heat recoverable from the oil cooler
- **3%** Remaining heat:-
  - Heat radiated from compressor
  - Heat remaining in compressed air



Your Trusted Partner in Compressed Air

Lean on us for the most energy efficient solutions



Trust Ingersoll Rand to deliver effective solutions for the most demanding industrial compressed air applications. Manufacturers of oil-free, oil-flooded, rotary screw, centrifugal and reciprocating industrial air compressor systems and downstream equipment, our commitment to performance and quality delivers cost-effective and energy-efficient solutions to a global audience. Ingersoll Rand helps to deliver real return on investment with support services and insight that will transform your compressed air system's performance. Whether your goal is to boost productivity, decrease waste, optimize efficiency, or plan for the future, you can gain valuable information about production and efficiency, identify leaks in your system, and receive recommendations for cost savings and enhanced reliability.

Trust Ingersoll Rand to deliver:

- Air Audits for improved system reliability, improved overall system efficiency, increased productivity, extending the life of your system, and identifying, troubleshooting and correcting system problems.
- Air Leak Assessments to minimize damage to your systems and optimize energy costs.
- Monitoring and performance enhancement with Helix, our cloud-based system that provides real-time detailed data insights to maximize efficiency and minimize downtime through preventative maintenance and early fault detection.
- Compressed Air Management Systems that control and manage your system's efficiency and your bottom line.

Lean on the compressed air expertise of Ingersoll Rand.
Save money. Save energy. Save the planet! Why wouldn't you?

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