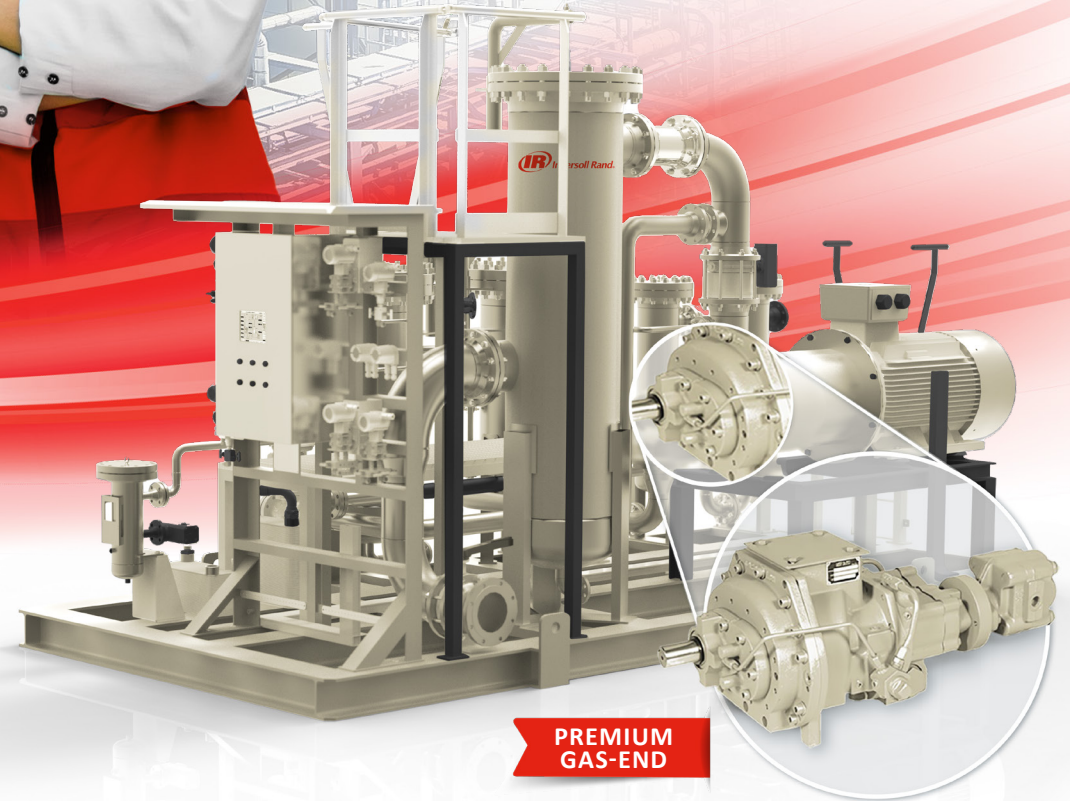




# SCREW GAS COMPRESSORS PACKAGES

CHOOSE THE TRUSTWORTHY GAS COMPRESSOR SOLUTION  
& ENJOY PEACE OF MIND



Engineering Project Solutions  
<https://www.irco.com/industries/engineering-project-solutions>

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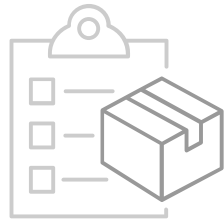
# 01. Ingersoll Rand Engineering Project Solutions Introduction

At Ingersoll Rand's Engineering Project Solutions, we have been managing and implementing engineered to-order air packages for complex technical requirements for **over 60 years**.

We provide **specialized custom compressed air and nitrogen generation packages to international EPC contractors and engineering companies** across a range of industries.

Using the extensive experience that we have gained by working with EPC companies, we have developed the capability to carry our complex projects that are tailored to our customers' requirements. Engineered for performance, our range of equipment is built to provide **maximum efficiency, reliability and uptime**.

We are a leading global business provider, offering custom-made products to satisfy a range of customer needs based on:



Market to Order  
(MTO)



Engineering to Order  
(ETO)



Special configuration and Project  
Lifecycle Support (PLS)  
for complex projects  
and EPC contractors.

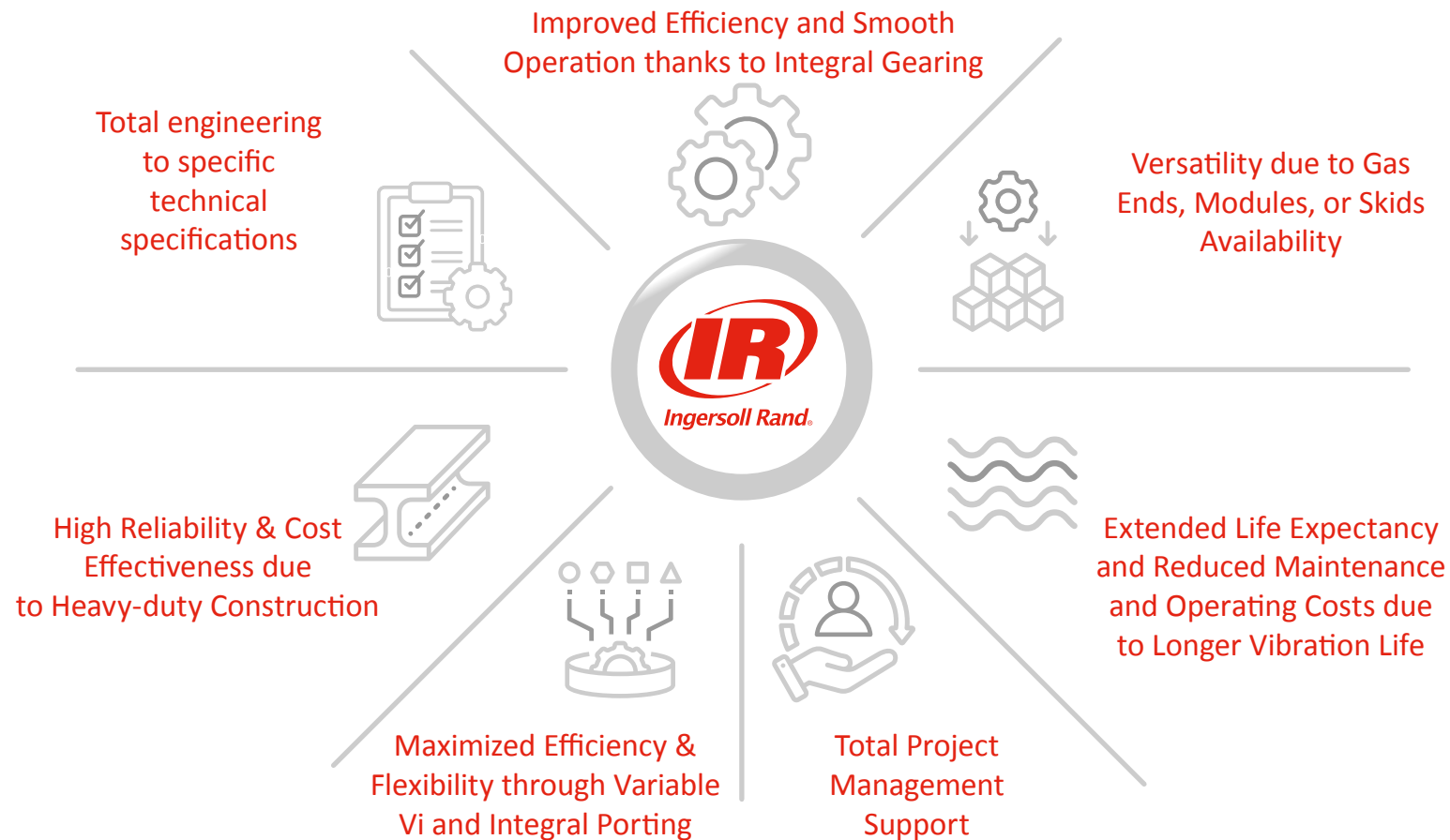


## 02. Benefits of Ingersoll Rand Rotary Screw Gas Compressors

Ingersoll Rand Gas Compressors is one of the world's leading manufacturers of compressed gas systems.

For over 100 years, Ingersoll Rand has designed and manufactured rotary screw and reciprocating compressors constructed to meet a wide variety of demands. We have built a reputation as a manufacturer of choice and an industry leader.

Ingersoll Rand's oil-injected rotary screw gas compressors are an ideal solution for those seeking additional options for specific project needs. They provide a wide range of benefits:



# 03. Applications

For over a half a century, Ingersoll Rand has been providing solutions through our compression technologies for numerous market segments. With a wide variety of compressor products, we are able to serve a vast range of applications in the Oil & Gas, Industrial, Process and many others industries, including ones in corrosive gas environments. Vapor recovery, gas lift, well unloading, and bio gas are just a few suitable applications.

We pride ourselves on having flexible and quality engineered solutions to meet the demands of the specific technical requirements of your application.

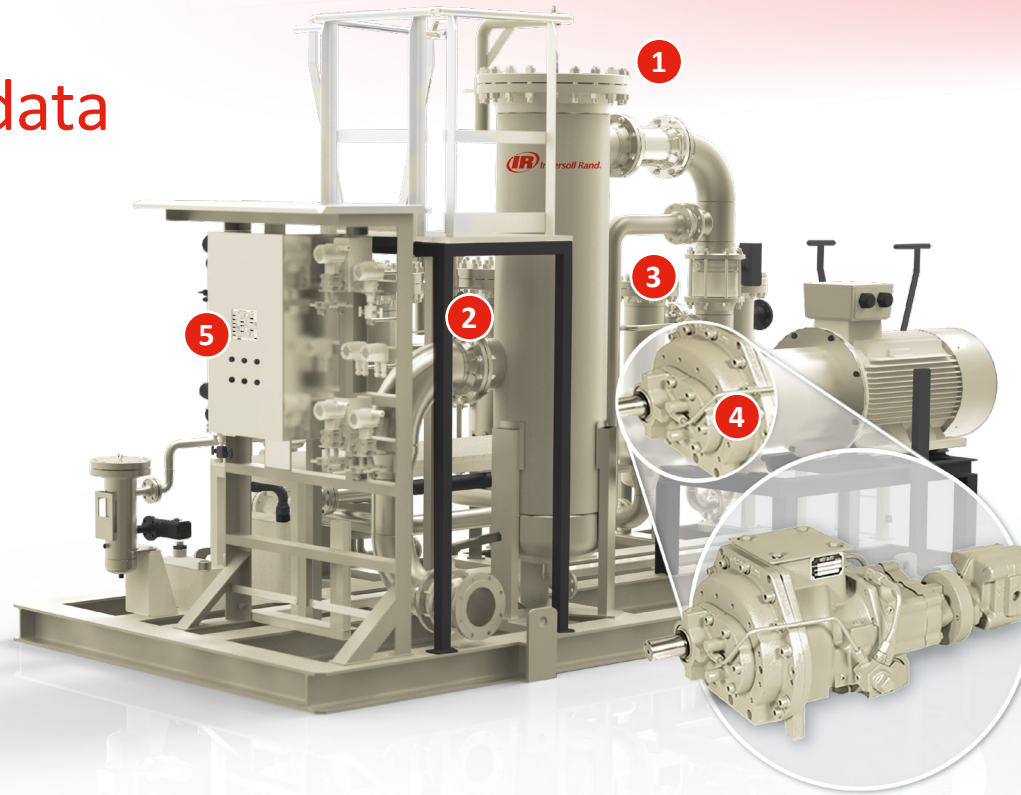
### Markets & Applications where we have served:

Oil & Gas	Industrial & Process
Vapor Recovery (VRU)	Biogas Applications
Flare Gas Capture	Carbon Dioxide (CO2) Applications
Gas-Lift	Carbon Capture and Storage (CCS)
LNG Boil-Off Gas	Landfill Gas Recovery
	Fuel Gas Conditioning

Is your market not on the list? We can provide engineered rotary screw gas compressors to your specific application. Request a quote today – we'll will tailor our offer to your technical specifications!



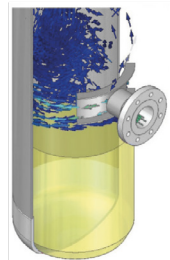
# 04. Technical data



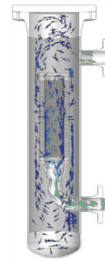
**1 INTAKE FILTER**  
 Designed using in-depth flow simulation to achieve the maximum water separation



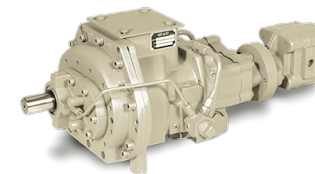
**2 OIL SEPARATOR**  
 Oil/gas separation obtained by the combination of mechanical removal and filtration with coalescent cartridge



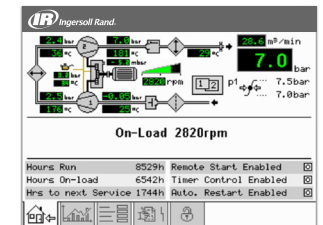
**3 AFTER FILTER**  
 Cartridge filter element with dedicated housing, designed by Ingersoll Rand to reach maximum efficiency and minimum pressure loss



**4 PREMIUM COMPRESSOR BLOCK**  
 High efficiency compressor block, specifically designed for gas application



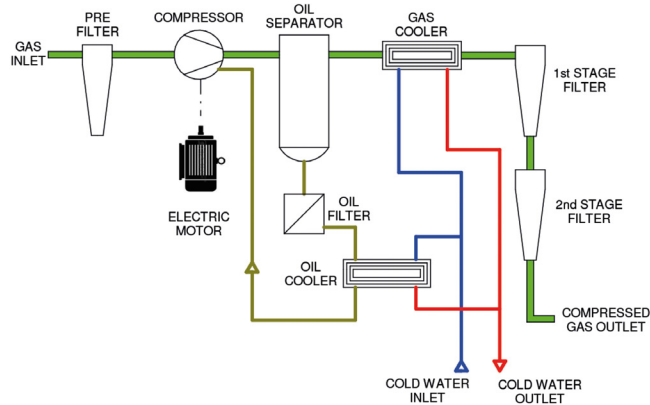
**5 HMI PROCESS CONTROL**  
 Dedicated software realized by Ingersoll for the system control and safety management



# 04. Technical data

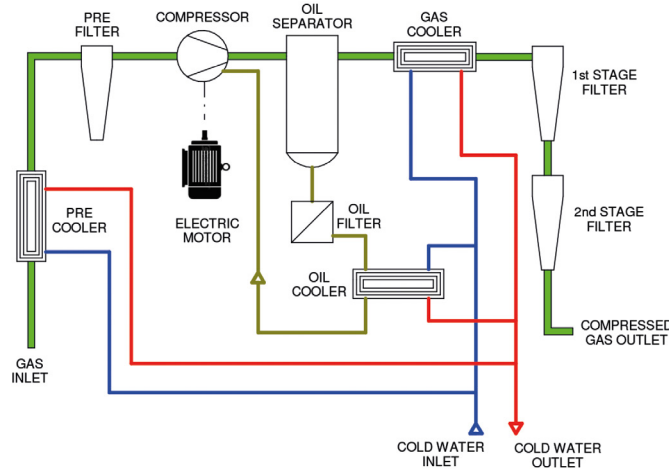
## CONFIGURATION N°1

Complete system with water cooling, suitable for gases with water content



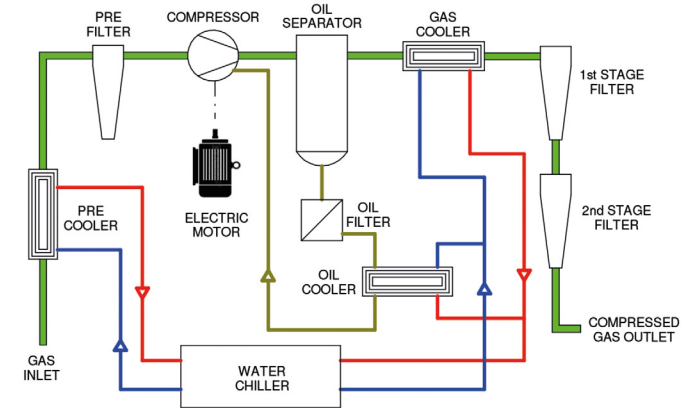
## CONFIGURATION N°2

Solution with the pre cooler for gases with high water content: the temperature decreases to separate water content by condensation

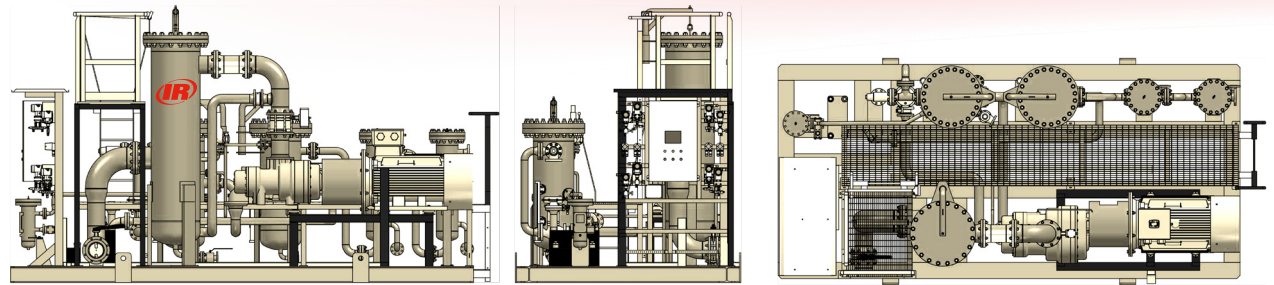


## CONFIGURATION N°3

Totally integrated solution having closed loop water cooling system, with chiller installed on the common skid



# 04. Technical data



## Possible Technical Configuration:

Stages	Rotor Diameter mm	Max Discharge Press. Bar	Power kW	Flow range m <sup>3</sup> /h max
Single	70,6	14	15	235
Single	95,7	14	30	470
Single	120	14	50	700
Single	155	14	90	1150
Single	108	24	67	600
Single	127,5	24	90	1680
Single	175	24	135	3000
Single	204	24	225	4800
Single	245	21	250	6000
Single	309	17	450	15600
Single	309	10	600	18000
Double	175 & 127,5	34	300	3000
Double	245 & 175	34	450	6000
Double	245 & 175	10	260	3000
Double	309 & 245	10	450	6000

## Features and Options:

Ingersoll Rand rotary screw compressor packages are available in 1, 2 and 3 stage configurations, with both gas engine and motor drives up to 60hp.

Numerous options are available, including but not limited to the following:

- PLC's, HMI's, Instrumentation
- Motor controls - VFD's, Soft Starters
- Scrubbers, Blowdown tanks, Separators
- Enclosures, O2 analyzers, after coolers, etc.



# 05. Ingersoll Rand Engineered Solutions

Engineering Project Solutions forms part of Ingersoll Rand Engineered Solutions, a **business line of Ingersoll Rand focused on delivering the most reliable engineered to order solutions in the market.**

**Ingersoll Rand Engineered Solutions mission is to design, develop and deliver and help to manage complex projects with the most trustworthy engineering solutions** allowing our customers to succeed.

At Ingersoll Rand Engineered Solutions, our products include **compressors and vacuum pumps** for both air and gas with different technologies and **loading arms**. They enable mission critical processes in **oil & gas, power generation, environmental, chemical & petrochemical, mining, general industry** and many other key sectors.

[LEARN MORE](#)



## Market Leading Brands

Ingersoll Rand Engineered Solutions has been created by four prestigious leading brands with great reputations – **Emco Wheaton, Nash, Garo** and **Ingersoll Rand Engineered Project Solutions** – which together boast of more than 300 years of experience.



Emco Wheaton combines expertise and knowledge, with an innovative attitude and unmatched skills, to produce world leading fluid transfer equipment.



Garo has been a manufacturer of liquid ring compressors since 1947. They are the heart of our custom-designed gas compression systems for the oil & gas, petrochemical and chemical industries.



Nash is the inventor and market-leading manufacturer of highly engineered liquid ring vacuum and compressors systems as well as Dry vacuum systems that stand out through their high reliability and low total cost of ownership.



Engineering Project Solutions has been supplying engineered compressed air nitrogen and oxygen generation packages globally for the last 60 years.

**Sales offices**

Ingersoll Rand Engineering Project Solutions. EMEAI  
Avenida de Alemania, 2  
28821 Coslada (Madrid) - Spain.  
Phone: +34 91 649 92 39

**Manufacturing facilities**

Ingersoll Rand Engineering Project Solutions. EMEAI  
Avenida de Alemania, 2  
28821 Coslada, Madrid (Spain)  
Phone: +34 91 649 92 39

Emco Wheaton GmbH  
Emcostraße 2,  
35274 Kirchhain (Germany)  
Phone +49 6422 84-0

Nash - Zweigniederlassung der Gardner Denver Deutschland GmbH  
Katzwanger Straße 150  
90461 Nürnberg (Germany)  
Phone: +49 911 1454-0

Pune India Gardner Denver Engineered Products India Pvt Ltd  
Gat No: 182, 183, 184  
Gat No: 182, 183, 184,  
412216 Alandi - Markal Road Fulgaon  
Pune Maharashtra (India)

Gardner Denver Nash / Garo / Ingersoll Rand - Centro Client Vignate  
Garo Dott. Ing. Roberto Gabbioneta S.r.l.  
Strada Provinciale Cassanese 108  
20052 Vignate (MI) (Italy)  
Phone: +39039839601

Finland Tampere Gardner Denver OY  
Etu-Hankkion katu 9.  
33700 Tampere (Finland)  
Phone: +358-9-751-761

