

Process Gas Centrifugal Compressors for NGL Fractionation

Ingersoll Rand offers a full array of centrifugal compressors for NGL fractionation. From refrigeration to heat pump applications, our compressors deliver the precise pressures and temperatures required for all of the necessary sub-processes.

Custom Solutions for Your Application

Reliable MSG[®] TURBO-AIR[®] and MSG[®] centrifugal compressed air and gas systems are designed to operate in the harsh environments found in critical NGL fractionation processes. Our custom packages will help you lower installation and maintenance costs while maximizing productivity.



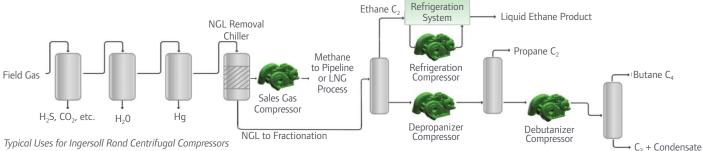
Two-stage MSG-11 operating as a debutanizer compressor in an NGL fractionation plant

Specifications	
Feature	Data
Flow Range	Up to 60,000 cfm (1,700 m³/min)
Pressure Range	Up to 1,450 psi (100 bar)
Gases	Propane, propylene, nitrogen, mixed refrigerants and more
Certifications & Classifications	ISO 9001, 29001 & 14001, API, CE, PED, ATEX, CHINA CODE, GOST, KOSHA, ASME

Why Choose Ingersoll Rand Centrifugal Compressors?

Features	
Attribute	Description
High Reliability and Availability	Longest mean time between failures (MTBF) of any compressor technology
	Non-wearing parts leads to longer intervals between scheduled maintenance, exceeding industry standards
	Highly resilient to damage caused by surging
	Industry-tested, proven designs
	State-of-the-art PLC ensures efficient operation
Optimized Efficiency	Custom designed, 5-axis milled impellers using latest CFD and FEA software
	Up to three pinions per compressor to optimize impeller aerodynamics
	Inlet guide vanes offer efficient, flexible operation
Stringent Industry Compliance	Designed to meet API 617, ASME and CE codes and standards as required
	Customizable to meet your specifications
	Compliance to local codes and standards as needed
Process and Environmentally Friendly	Variety of dry face seals to reduce valuable product loss
	Advanced seal support systems prevent damaging NGL condensate from entering the seals
	Atmospheric separation between scroll and gearbox prevents oil from entering process flow
Low Cost Installation and Maintenance	Inherently vibration free, requiring minimal foundation work
	Volutes can handle large gas volumes, reducing overall footprint
	Custom package layouts ensure easy access to maintenance components
	Pre-assembled delivery on skids minimizes overall site installation time and cost
	Horizontally split gearbox and small rotor size greatly reduce maintenance

NGL Fractionation System Diagram



for NGL Fractionation



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