

Oil-free, Risk-free

How pure is your air? One of the keys to ensuring you achieve and maintain acceptable air quality for your critical application is to know industry air quality standards and their allowable levels of contaminants. The lower the particulate class rating, the purer the air should be.

ISO 8573-1:2001 Air Quality Classes							
Quality Class	SOLIDS			WATER		OIL & OIL VAPOR	Quality Class
	0.1 – 0.5 micron	0.5 – 1.0 micron	1.0 – 5.0 micron	Pressure Dew Point		mg/m ³	
		Max. Particles Per m ³		°F	°C		
0	As specified by the end-user or manufacturer, and more stringent than Class 1						0
1	100	1	0	-100.0	-70.0	0.01	1
2	100,000	1,000	10	-40.0	-40.0	0.10	2
3	—	10,000	500	-4.0	-20.0	1.00	3
4	—	—	1,000	37.4	3.0	5.00	4
5	—	—	20,000	44.6	7.0	—	5
6	—	—	—	50.0	10.0	—	6

ISO 8573-1:2001 Class 0 specifies air quality standards for critical manufacturing processes within most industries. It is the most stringent class covering oil contamination in aerosol, vapor and liquid forms.

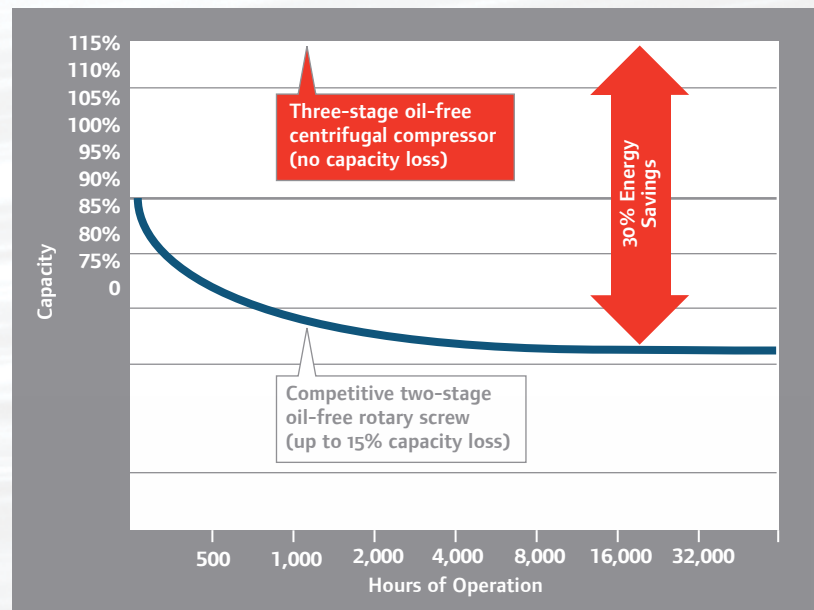
If you need guaranteed pure air for your critical application, then you need Ingersoll Rand. Our centrifugal compressors were rigorously tested by TÜV Rheinland® — a global leader in independent testing and assessment services — and earned ISO 8573-1:2001 Class 0 certification.



The World's First Certified Oil-free Centrifugal

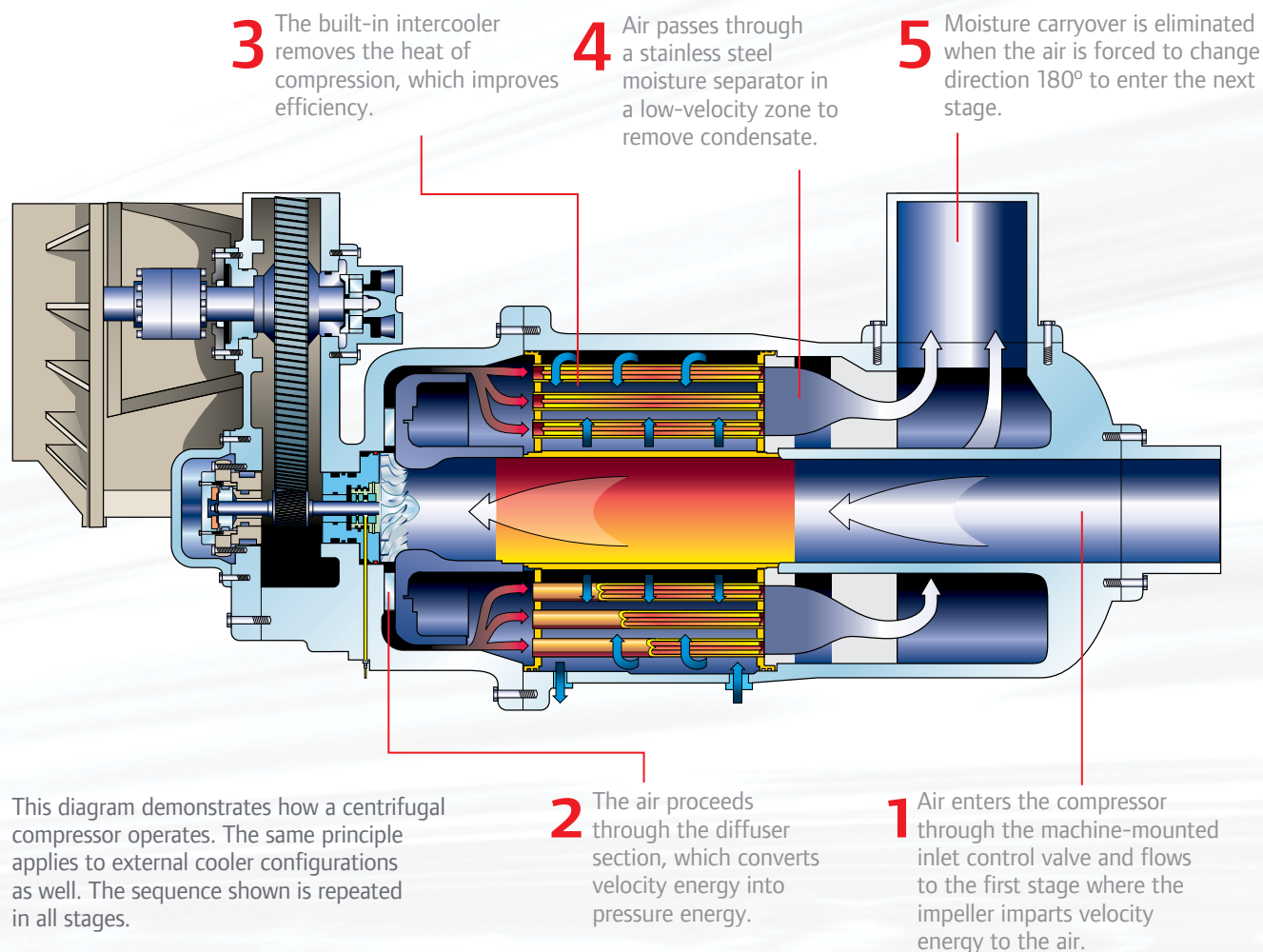
Engineered excellence. Our oil-free centrifugal compressors are not only the first to be certified ISO 8573-1:2001 Class 0, they also offer efficient, economical and reliable solutions for delivering compressed air. These high-performing, versatile compressors deliver the advantages of a compact design to a broader range of customers and applications.

An Ingersoll Rand centrifugal compressor comes with a capacity advantage of as much as 15% above competitive two-stage, oil-free compressors. This advantage increases to as much as 30% as our capacity remains consistent, while other technologies degrade by up to 15%.



Simplicity by Design

The easy choice. Our centrifugal compressors are the most efficient and reliable units on the market, and 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.



Less is More

Fewer moving parts mean you get a more reliable, safer compressor with less downtime and less maintenance. With our multi-stage compressors, you can hit your performance requirements easily and with less wear and tear than with any other compressor on the market. Greater efficiency, reliability and unique features and controls provide you with an unbeatable combination of energy savings and trouble-free life.

Balanced and Stable Rotor Assemblies

Our impellers feature a vane geometry that allows maximum pressure control over the widest operating range. Each rotor assembly is dynamically balanced between two hydrodynamic bearings to ensure low vibration and peak operating efficiency.

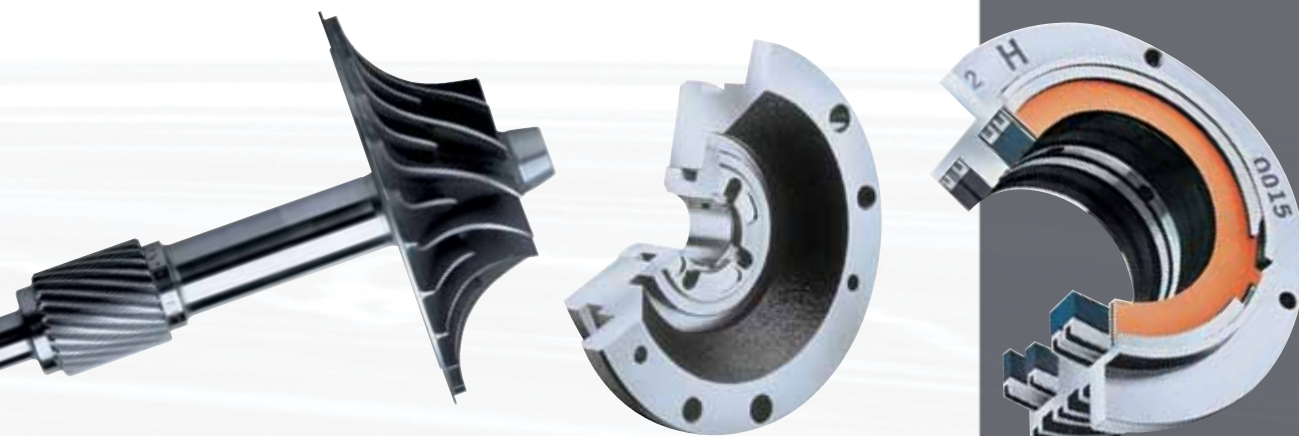
Superior Bearings and Carbon Ring Seals

Because our rotors are so stable, we're able to use simple bearings with no moving parts. The rotors never contact the bearings, but rather spin on a film of oil. This permits long intervals between scheduled maintenance checks.

Our compressors also feature full-floating, non-contact carbon ring seals to minimize air leakage and prevent oil from migrating up the rotor shaft.

Vertically Split Casing

Our exclusive vertically split casing permits easy opening for servicing the compressor components as well as for setting running clearances externally, without opening the unit.



A Systematic Approach to Productivity

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.

