



100% Oil-Free.

Oil-Free Rotary Screw Compressors
Fixed & Regulated Speed (RS)

PureAir

ISO CLASS. ZERO PLUS SILICONE FREE



Innovative Oil-Free
Compressed Air Technologies

DX200-DX355^e
DX200RS-DX355^eRS

Air and Water Cooled



When PureAir Technology is High Priority

There's a lot riding on the quality of your air. The presence of particles, condensate, oil and oil vapor in a compressed air system can lead to downtime, product spoilage and recall, damage to your brand reputation, or worse, harmed consumers and product liability.

For lower cost of ownership

Higher initial costs for oil-free systems are more than offset by lower operational and maintenance costs over a system's life to maintain the highest air quality

For reliability

A robust product and system design delivers top quality air, protecting sensitive downstream equipment, lowering maintenance and extending equipment life

For productivity

The use of an oil-free Class 0 certified compressor guarantees contamination-free air, eliminating the risk of product spoilage and waste

For serviceability

Our oil-free equipment is designed specifically to make maintenance easy by providing clear access to consumable components

ISO 8573 Class 0 Oil-Free Air

Class 0 is the most stringent air class defined by ISO 8573, part 1. Our oilfree compressors are certified Class 0 for no oil content by TUV to ensure your air quality exceeds specifications.

ISO 8573-1 Air Quality Classes	
Quality Class	Oil & Oil Vapor mg/m ³
0	< 0.01
1	0.01
2	0.1
3	1
4	5

CompAir – The Compressed Air system provider you can trust



Analysis



Consulting



Project planning



Installation



Assure Service & Warranty



Maintenance



Original spare parts



iConn remote monitoring



What makes our oil free DX screw compressors range unique?

- ✓ State-of-the-Art Airend
- ✓ Up to **8%** higher flow compared to industry standard
- ✓ Up to **7%** (Fixed Speed) & **5%** (Variable Speed) **energy reduction**
- ✓ **Premium** variants with even **greater efficiencies**
- ✓ Variable speed models with **turndown** rates of up to **71%**
- ✓ Wide variety of pre-engineered and **customised options**
- ✓ Further savings with optional **heat recovery**
- ✓ **Free iConn inside**
- ✓ **ASSURE Service** Program with different coverage options

The Air end – How we build reliability into every detail

Compressor rotors take a beating. Over time, their surfaces can deteriorate, leading to reduced air flow and increasing risk of corrosion.

CompAir eliminates this problem with UltraCoat, an advanced rotor and housing protection process that ensures the most durable coating, with unmatched adhesion properties and temperature resistance.

In conjunction with a second-stage stainless steel rotor, UltraCoat delivers greater reliability in performance and air quality, rotor longevity, increased uptime, and reduced energy costs.

At a glance

- Class Zero Oil FREE RotaryScrew Compressors
- Air- and Water-Cooled
- Fixed Speed and Variable Speed Models
- Air purity that meets the most stringent hygienic standards
- Outstanding reliability for demanding applications

- **Pressure range**
4 to 10 bar
- **Volume flow**
11.4 to 53.4 m³/min
- **Motor power**
200 to 355 kW



Main features & benefits

World-Class Efficiency

Our new state-of-the-art modular airend design features an optimised rotor profile that delivers significantly improved efficiency and best-in-class airflow. The premium e-variants with their water-cooled airend jackets enable even greater energy savings



Robust Components

Proven, trouble-free airends with patented UltraCoat™ technology, oversized bearings, a rugged motor design, coolers enabling operation at ambient temperatures up to 46°C and hydraulically actuated inlet valves provide reliability for life.



Flexible Design Options

Our compressors offer air-cooled and water-cooled configurations, fixed and regulated speed, different pressure variants, extreme ambient temperature options, high dust filtration and outdoor modifications for harsh environments and many more to best match your application.



Simple and Serviceable

Our oil-free compressor package design is simple and spacious – no special tools are required to perform maintenance, and all components are easily accessible. Our durable consumables and wearables lengthen service intervals.



Higher Rated Cooling Capacity

Our compressor systems are designed for operation at ambient conditions up to 46°C. This provides an additional cooling margin for trouble-free operation at higher temperatures, and again contributes to the overall reliability and efficiency of the compressor package



“ The design of these packages ensures that the service points are readily accessible

Advanced Compressor Control

Xe-Series controllers deliver increased control and functionality through an intuitive user interface and provide remote access with any common, current web browser. Variable speed models can sequence up to four compressors without additional hardware to increase efficiency and stabilise pressure.



Saving energy and protecting the environment

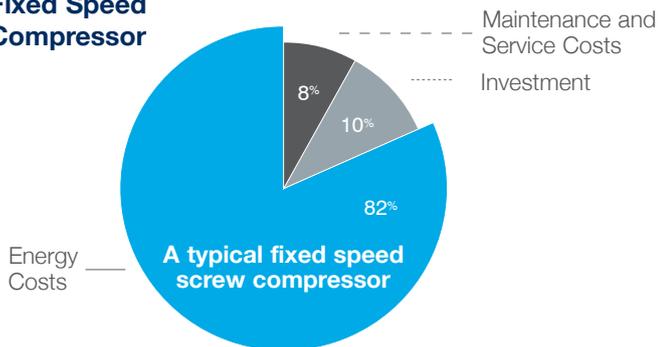
Over a period of five years, energy accounts for typically 80% of the total costs. However, this high share also means that there is considerable potential for savings.

Why Regulated Speed Compressors?

We fully integrate matched variable speed drives with the appropriate motors to maximise efficiency and reliability. The high performance induction motor provides wide turndown and the ability to turn off immediately at minimum speed, so there's no need to continue running unloaded. RS air compressors provide the greatest possible energy savings while delivering reliable, clean air.

Maintenance and Service Costs

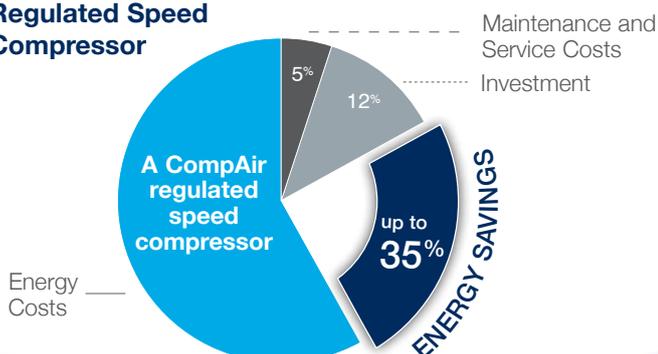
Fixed Speed Compressor



Achieve up to 35% Savings over traditional fixed speed

Fixed speed compressors usually require a larger control band, while RS compressors operate much closer to the target pressure. Every 1 bar (over required pressure costs an additional 7% in power!

Regulated Speed Compressor



Perfect motor - drive - airend design

D-RS Series features a high efficient Power Drive System that exceeds the class IES2 EN61800-9 requirements and assures high energy savings across broad flow range.

Wide regulation range

No cycles means substantial energy savings

Why SmartAir

compressed air management system?

Why SmartAir Master compressed air management system?

Energy management is crucial for all compressed air users, as the highest cost factor of a compressor is the energy to run it.

Base load sequencing

Compressed air systems typically comprise of multiple compressors delivering air to a common distribution system. The addition of the optional base load sequencing module will allow central control of up to four compressors matching delivery to the plant demand.

Why a profitable investment?

- Harmonises the workload of up to 12 fixed or regulated speed compressors including downstream
- Eliminates energy waste by tightening the network pressure to the narrowest pressure band
- Equalises the running hours for economic servicing and increased uptime
- Optimum performance and monitoring
- Increased plant productivity



Compressed Air Heat Recovery

– a profitable investment!

Why Heat recovery

It is a thermodynamic fact that around 94% of the energy needed to run a compressor gets converted to heat. Without heat recovery, this heat is directly blown into the atmosphere.

The heat generated during compression is paid for as part of the process, then it creates additional costs as this heat needs to be removed by cooling fans. At the same time, most companies consume a lot of energy and money to generate hot process water, space heating or preheat water for steam generation.

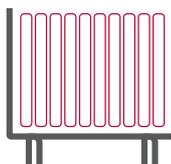
Given that compressed air systems account for 10% of all electricity used in industry, and energy is the largest single lifecycle cost of a compressor, it makes sense to recover this heat, save energy and reduce costs.

Your benefits

- Significant savings in energy costs
- Extremely short payback time
- Low investment costs payback - time typically less than 1 year
- Lower CO₂ emissions
- Turnkey solutions
- Easy installation and operation
- Small ecological footprint
- High reliability
- No impact on the compressed air supply
- Available for all water-cooled D Series models



Hot Water



Space Heating



Industrial
Process



Steam Generation
(pre-heating)

Airtreatment & Condensate Management

AirPlus



Compressed air treatment

A modern production system and process demands increasing levels of air quality, and compressed air operators need to ensure that the downstream equipment also delivers on it 100%.

Air Treatment Products

- ✓ Water Cyclone Separators
- ✓ Compressed Air Filters
- ✓ Condensate Drain System
- ✓ Compressed Air Refrigerant Dryer
- ✓ Heatless Desiccant Dryers
- ✓ Heat Regenerative Desiccant Dryers
- ✓ Heat-of-Compression Dryers (HOC)
- ✓ Subfreeze Dryers
- ✓ Nitrogen Generator



Protect your investment

Invest in your future with a Service & Warranty Agreement

Compressed air is critical to your operation. A proper maintenance strategy is crucial to avoiding unplanned, unbudgeted downtime and production interruptions. By choosing a Service agreement including an extended warranty you protect your investment.

It All Adds Up to Peace of Mind

Lower Cost of Ownership

Service and Warranty Agreements provide the most cost-effective solutions based on your customised maintenance strategy.

Quality Results

Factory trained technicians allows you to focus on your core business, while they take care of your compressor system.

Increased Uptime

Service Agreements help decrease unplanned downtime and costly production interruptions.

Efficient Energy Use

Peak system efficiency is achieved through properly performed maintenance and inspection.

Peace of Mind

A Service agreement ensures an extended warranty. Depends on duration.





iConn
inside

Predictive Maintenance

iConn Compressed Air Service 4.0

The D-Series is equipped with iConn as standard. iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to compressed air users.

- ✓ Advanced remote analysis
- ✓ Predictive – evaluates historic data
- ✓ Maximises energy efficiency
- ✓ Optimises compressor performance
- ✓ Reduces downtime
- ✓ Works as an open standard
- ✓ Free on new compressors – can be retrofitted
- ✓ Proactive maintenance

...that is why you cannot ignore iConn!



CompAir genuine spare parts

Genuine CompAir parts and lubricants ensure that compressed air plant reliability and efficiency is maintained at the highest standards. CompAir spare parts are distinguished by:

- Long service life, even under harshest conditions
- Minimum losses contributing to energy savings
- High reliability improving plant up-time
- Products manufactured with the strictest Quality Assurance Systems



Oil-Free Compressors for your Application

Technical Data

DX200 – 355 Fixed Speed

Compressor Model	Cooling Method	Motor Rating [kW]	Nominal Pressure			Free Air Delivered ¹⁾ [m ³ /min]			Dimensions L x W x H [mm]	Noise Level ²⁾ [dB(A)] 8 bar g	Weight [kg]
			7 bar g	8 bar g	10 bar g	7 bar g	8 bar g	10 bar g			
DX200	Air	200	•	•	•	37.6	35.0	31.8	3457x2152x2446	80	6426
	Water		•	•	•	37.7	35.1	31.8		76	5734
DX200 ^e	Water	200	•	•	•	38.1	35.5	32.3		76	5734
DX250	Air	250	•	•	•	45.2	43.6	40.6		80	6446
	Water		•	•	•	45.6	44.1	41.1		76	5754
DX250 ^e	Water	25	•	•	•	45.6	44.1	41.1		76	5754
DX315	Air	315	•	•	•	52.9	51.3	49.1		80	6446
	Water		•	•	•	52.9	51.4	49.1		76	5754
DX315 ^e	Water	315	•	•	•	53.3	51.8	49.5		76	5754
DX355	Water	355	-	-	•	-	-	52.8		76	5754
DX355 ^e	Water	355	-	-	•	-	-	53.3	76	5754	

DX200 – 355RS Regulated Speed

Compressor Model	Cooling Method	Motor Rating [kW]	Nominal Pressure bar g	Free Air Delivered at 7 bar g ¹⁾ [m ³ /min]		Dimensions L x W x H [mm]	Noise Level ²⁾ [dB(A)] 8 bar g	Weight [kg]
				min	max			
DX200RS	Air	200	10	11.6	34.7	3457x2152x2446	80	6556
	Water		10				76	5864
DX200 ^e RS	Water	200	10	12.1	35.5		76	5864
DX250RS	Air	250	10	12.4	42.1		80	6556
	Water		10				76	5864
DX250 ^e RS	Water	25	10	12.9	43.2		76	5864
DX315RS	Air	315	10	14.7	50.2		80	6586
	Water		10				76	5894
DX315 ^e RS	Water	315	10	15.2	51.2		76	5894
DX355RS	Water	355	10	14.7	50.8		76	5894
DX355 ^e RS	Water	355	10	15.2	51.2	76	5894	

¹⁾ Data measured and stated in accordance with ISO 1217, Edition 4, Annex C and Annex E and the following conditions: Air Intake Pressure 1 bar a, Air Intake Temperature 20°C, Humidity 0 % (Dry).

²⁾ Measured in free field conditions in accordance with ISO 2151, tolerance ± 3dB (A).



Global experience - truly local service

With over 200 years of engineering excellence, the CompAir brand offers an extensive range of highly reliable, energy efficient compressors and accessories to suit all applications.

An extensive network of dedicated CompAir sales companies and premium partners across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

CompAir has consistently been at the forefront of compressed air systems development, culminating in some of the most energy efficient and low environmental impact compressors on the market today, helping customers achieve or surpass their sustainability targets.



CompAir compressed air product range

Advanced Compressor Technology Lubricated

- Rotary Screw
 - > Fixed and Regulated Speed
- Portable

Oil-Free

- Water Injected Screw
 - > Fixed and Regulated Speed
- Two Stage Screw
 - > Fixed and Regulated Speed
- Rotary Scroll
- Ultima®

Complete Air Treatment Range

- Filter
- Refrigerant and Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer
- Nitrogen Generator

Modern Control Systems

- CompAir DELCOS Controllers
- SmartAir Master Sequencer
- iConn - Smart Compressor Service

Value Added Services

- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

- Custom Engineered Solutions
- Local Service Centres
- Genuine CompAir Parts and Lubricants

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.