

100% Oil-Free - Guaranteed

Oil-Free Rotary Screw Compressors
Fixed Speed

PureAir

ISO CLASS: ZERO



Innovative oil-free
compressed air technologies

DS37 – DS150

Air Cooled

Air purity that meets the most stringent hygienic standards

Outstanding reliability for demanding applications

The two-stage oil-free screw compressor range has been designed with a focus on operational safety in demanding applications. The innovative clear construction delivers state-of-the-art performance, in-depth control and outstanding reliability.

The sophisticated Advanced Microprocessor controller protects your investment by continuously monitoring operational parameters. CompAir's own designed and manufactured airend works at constant low temperature levels and lowers the compressor's lifecycle costs.

With easy servicing and full PureCARE warranty cover, operators eliminate all possible risks to their business.



CLASS 
CERTIFIED

Oil-free - the ultimate air quality

No matter what industrial sector, there is a growing demand for higher quality, oil-free compressed air that meets stringent quality standards. Whether it is needed for food and beverage or chemicals production, supply of pharmaceuticals, electronics or sensitive components, manufacturers will no longer accept the risk of product or equipment contamination. For this reason, CompAir's DS Series offers the highest standard of air purity and has been certified ISO 8573-1 Class Zero.

▶ **Pressure range**

4.5 to 10 bar

▶ **Volume flow**

5.1 to 25.9 m³/min

▶ **Motor power**

37 to 150 kW



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CompAir's commitment to providing the purest, highest quality compressed air, through the development of innovative products, delivers world-class solutions.

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GERMAN ENGINEERING DESIGN

Engineering excellence

Compressor rotors take a beating. Over time, their surfaces can deteriorate, making rotors increasingly susceptible to compressed air impurities and temperature fluctuation. CompAir eliminates this problem with our advanced rotor and housing protection process that ensures the most durable coating, with unmatched adhesion properties and temperature resistance.



Innovative oil-free design concept

Outstanding reliability for demanding applications

You may have no choice over the quality of the compressed air used in your process – it just has to be absolutely contaminant free.

CompAir have been designing, manufacturing and supplying oil-free compressors for more than 100 years. The award winning DS Series has been continuously developed and achieves cutting edge performance and efficiency.

- ✓ Premium efficiency two stage airend design
- ✓ Unique closed oil circuit for airend cooling
- ✓ High quality IE 3 electric motor, optional
- ✓ Efficient motor cooling
- ✓ High ambient temperatures of up to 46° C
- ✓ Advanced microprocessor based controller with enhanced monitoring

PureAir
ISO CLASS: ZERO



Risk-Free Legal Compliance

Some processes need clean, dry, oil-free air and cannot risk contamination. With an oil-free compressor you get peace of mind, both in your system and for your Business



Worry-Free Operation

Air treatment systems and process equipment can be damaged by oil-laden compressed air, which can then affect sensitive electronic components causing unnecessary downtime and expense.



Lower Maintenance Cost and Energy Savings

A true oil-free compressor does not have oil in the compression chamber. Consequently, minimising downstream filtration requirements and pressure drops, which directly translates into energy savings.



Increased Sustainability

With high quality, contaminant-free air, you can be sure that you are helping make your compressed air system as streamlined and efficient, as possible.



State-of-the-art performance - through high efficiency components, low pressure losses, low temperatures and economical control.



The Reliable Workhorse

DS Series fixed speed compressors provide 100% oil-free Class 0 compressed air for safe, continuous and efficient operation with a robust design.

Rotor Performance—The Key to Reliable Compressor Operation

Compressor rotors take a beating. Over time, their surfaces can deteriorate, making rotors increasingly susceptible to compressed air impurities and temperature fluctuation. CompAir eliminates this problem with our advanced rotor and housing protection process that ensures the most durable coating, with unmatched adhesion properties and temperature resistance.

High output two stage airoend design with advanced Rotor Coatings—Energy Savings and Longer Life

Our rotor coatings deliver greater reliability in performance and air quality, rotor longevity, increased uptime, and reduced energy costs along with superior leak-free seal designs provide reliability for life.

Guaranteed efficiency with IE3 electric motor

- Legal conformity
- High reliability
- Operational safety

Easy installation & easy servicing

- ✓ Small footprint and compact size
- ✓ All connections on one side
- ✓ Easy ducting
- ✓ Perfect service accessibility
- ✓ Low number of parts and consequently less to service
- ✓ Long-term service interval
- ✓ Separate compressed air inlet, allowing external air suction

Engineered to Your Application

Special requirements are no problem for CompAir oil-free compressors. We provide a customized solution matching your application with our extensive options list.

- ✓ Freezing temperatures
- ✓ Construction materials
- ✓ Enclosure coating
- ✓ Electrical classification
- ✓ Instrumentation and tagging
- ✓ Controls and connectivity
- ✓ Motors and starters
- ✓ Remote mounted variable speed drives
- ✓ Material certification and acceptance testing

Perfect control - Perfect performance



A Controller that Improves Productivity

Important compressor information is easy to find, thanks to the DS-Series controller's intuitive, high-resolution color display (available in 3.5" or 5.7"). The controller features useful timers, compressor information and LED alerts that indicate when maintenance is necessary to help optimize care of your investment. The controller also posts information that users can access on a local web page. It even sends email notifications when it detects a problem.

The DS-Series utilizes the most advanced control algorithms to provide the lowest energy consumption and best reliability in every situation.

Built-in Reliability and Efficiency

With built-in control logic, DS-Series controls provide you with optimal safety, reliability and energy savings from your compressor. A variety of standard and optional control features gives you more ways to effectively manage and monitor your investment.



PAC™ prevents unexpected downtime by continuously monitoring and adjusting key operation parameters. It increases bearing life by eliminating water build-up in the coolant. It optimizes energy consumption and reduces noise by adjusting blower speed (on CompAir variable speed drive [VSD] compressors).



Real-time clock allows scheduled starts and stops, which helps reduce wasted air during off-hours.



Built-in performance analysis and visual trending help optimize efficiency, plan maintenance and avoid downtime.



Automatic emails broadcast warning/trip conditions and performance reports.



Sequence up to four DS-Series controlled fix speed compressors without any additional hardware.



DS Series - Technical Data

DS37 – DS150 Fixed Speed

Compressor Model	Cooling Method	Motor Rating [kW]	Nominal Pressure [bar g]	Free Air Delivered ¹⁾ [m ³ /min]			Dimensions W x L x H [mm]	Noise Level [dB(A)]	Weight [kg]
				7 bar g	8.5 bar g	10 bar g			
DS37	Air	37	7 - 8.5	6.0	5.1	-	1371 x 2248 x 1917	76	2387
DS45	Air	45	7 - 8.5	7.6	6.5	-			2497
DS55	Air	55	7 - 8.5 - 10	9.6	8.6	7.7			2557
DS75	Air	75	7 - 8.5 - 10	12.5	11.6	10.7			2682
DS90	Air	90	7 - 8.5 - 10	15.9	13.6	13.0	1588 x 3026 x 2374	79	3200
DS110	Air	110	7 - 8.5 - 10	19.4	18.0	15.3			3280
DS132	Air	132	7 - 8.5 - 10	22.8	21.4	18.8			3350
DS150	Air	150	7 - 8.5 - 10	25.9	24.6	22.1			3400

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, dryers and accessories to suit all applications.

An extensive network of dedicated CompAir sales companies and distributors 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*
- Piston
- Portable

Oil-Free

- Two Stage Rotary Screw*
- Water Injected Screw*
- Piston
- High Speed Centrifugal - Quantima®
- Rotary Scroll

Complete Air Treatment Range

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

Modern Control Systems

- CompAir Controllers
- SmartAir Master Sequencer
- iConn - Smart Flow Management

Value Added Services

- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

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

* These range of units are available in Fixed and Regulated Speed versions.

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.