



100% Oil-Free - Guaranteed

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

PureAir

ISO CLASS: ZERO PLUS SILICONE FREE



D37 – D315 D37RS – D315RS

Innovative oil-free
compressed air technologies

Air and Water Cooled

AirPurity

- that meets the most stringent hygienic standards

► At a glance

- Class Zero Oil FREE Rotary Screw 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

► Engineered to meet your needs:

- ✓ Premium efficiency two stage airend design
- ✓ Unique closed cooling water circuit for airend cooling
- ✓ High quality IE 3 electric motor, optional IE 4
- ✓ Efficient motor cooling
- ✓ High ambient temperatures of up to 45°C
- ✓ Delcos XL touch screen controller with enhanced monitoring
- ✓ Operational safety in demanding applications
- ✓ Own designed and manufactured airend
- ✓ Free iConn inside
- ✓ PureCare 6 year warranty

• Pressure range

4 to 10 bar

• Volume flow

5.1 to 51.8 m³/min

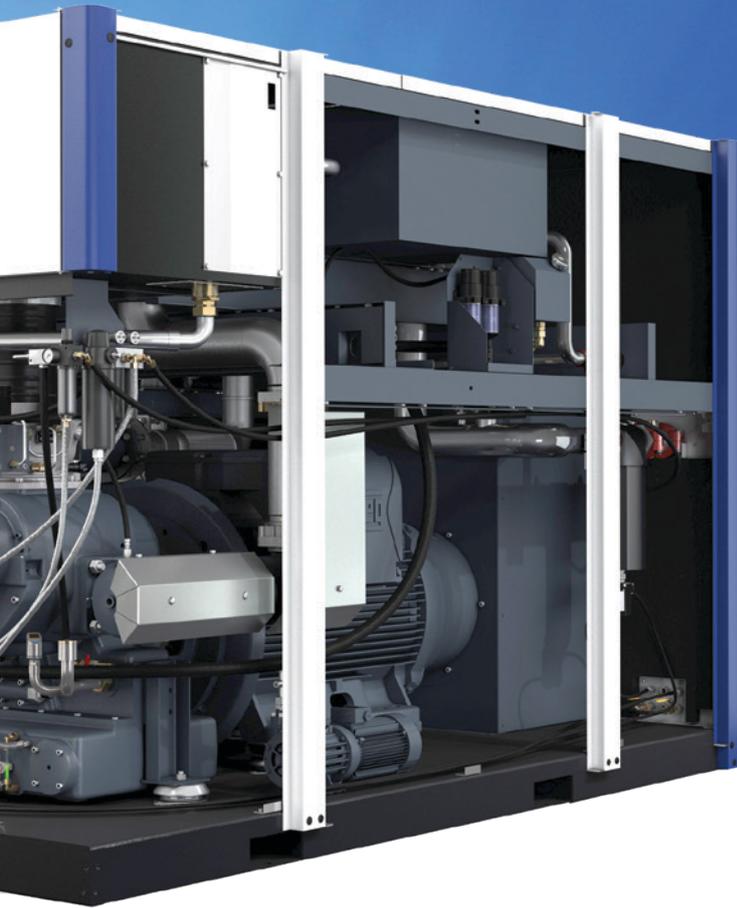
• Motor power

37 to 315 kW



PureAir

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CompAir have been designing, manufacturing and supplying oil-free compressors for more than 100 years.



► Engineering excellence

Compressors are more than just a financial investment, they are a key component to ensuring that manufacturers, processors and operators receive consistent, high quality, low cost air.

The screw compression element is the heart of the compressor and therefore CompAir keeps the design and manufacture in-house, using the latest CNC rotor grinding machinery, coupled with online laser technology.

Combined with CompAir's superior long-life hard coating, highest reliability and stable performance, low operating costs are ensured throughout the compressors life.

► Air purity

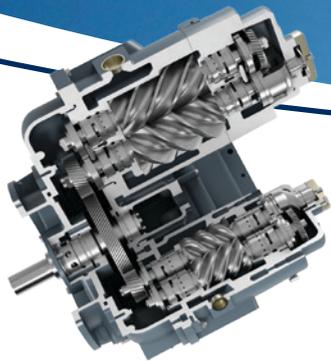


No matter what industrial sector, there is a growing demand for higher quality, oil free compressed air that meets stringent quality standards.

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 D-Series offers the highest standard of air purity and has been certified ISO 8573-1 Class Zero (2010) and silicone free.



Innovative oil-free design concept



▶ High output two stage airoend design

- 100% oil-free, near isothermal compression
- High reliability thanks to constant low temperatures

▶ Guaranteed efficiency with IE3 electric motor

- IE4 electric motor optionally available
- Automatic motor lubrication
- 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

▶ Excellent cooling performance

- Optimum motor cooling
- Closed cooling water circuit for airoend cooling
 - For constant low temperature levels
 - Avoids pollution
 - Less gearboxes required
- Level regulated electronic condensate drain

Air cooling

- Two efficient radial fans
 - In accordance with ErP Efficiency Legislation 2015
 - Low noise level
 - Low pressure loss
 - Speed regulated fans for minimum power consumption at any load

Water cooling

- High quality shell and tube coolers
 - Independent from ambient temperature
 - Low noise level
- Optionally stainless steel coolers

▶ Compact design – easy installation

- The small footprint reduces the space required for installation

▶ Easy Servicing

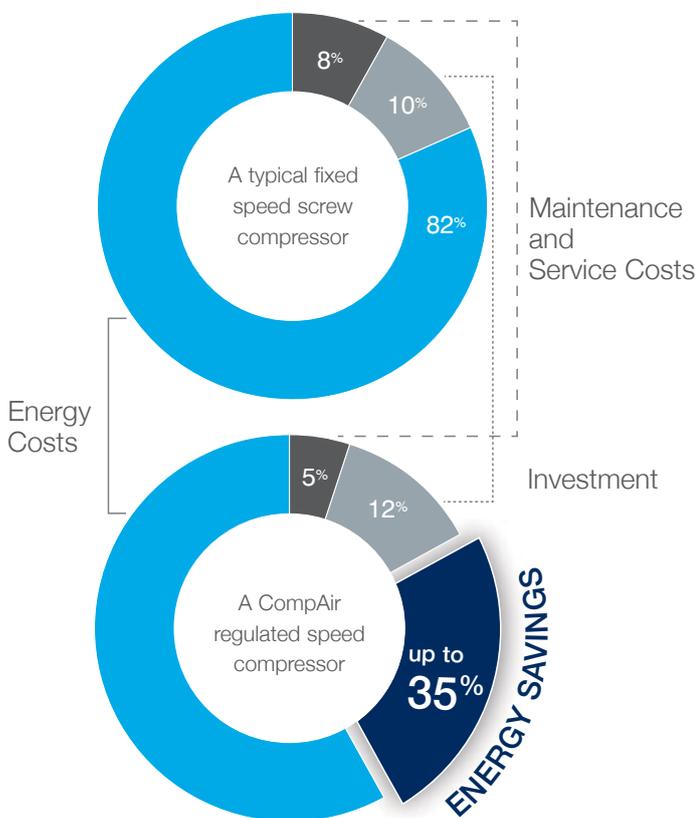
- The design of these packages ensures that the service points are readily accessible
- The enclosure side doors are hinged and removable to allow complete access to all service points
- The reduced number of moving parts further lowers the maintenance costs

▶ Regulated Speed Compressors

- The annual cost of ownership can be significantly reduced using regulated speed technology.
- “State-of-the-art performance - through high efficiency components, low pressure losses, low temperatures and economical control.”

▶ Tried and tested inverter concept

- Integrated in the electric cabinet
- Maximum reliability from optimised cooling system
- Ensures high availability and long-life



CompAir RS features are your benefits

The D-RS Series products are designed to obtain the greatest efficiency across the entire operating range.

▶ Wide regulation range

No cycles means substantial energy savings

▶ Perfect motor - drive - airend design

High efficiency across broad flow range

Perfect control

- Perfect performance

► Delcos XL innovative touch screen compressor controller

The Delcos XL with its high resolution touch screen display is extremely user-friendly and self-explanatory. All functions are clearly structured in five main menus and are intuitively visual.

Features & functions

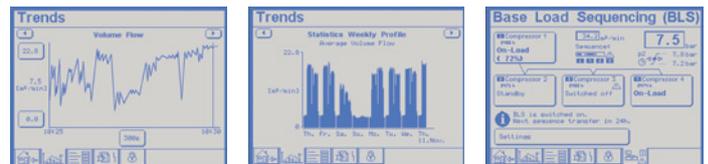
- Precise monitoring for exceptional operational reliability
 - Ambient pressure and temperature
 - Inlet and outlet pressure and temperature at both stages
 - Network pressure and temperature
 - Oil / water pressure and temperature
 - Oil / water level
 - ...and many more
- High resolution, easy-to-use touch-screen panel
- User-friendly clear menu structure
- Integrated SD card for in-depth analysis of monitored machine parameters
- Optional with base load sequencing for up to four units



Trend diagrams

With the ability to display detailed system analysis in the form of trend diagrams and graphs, operating parameters can be precisely set to maximise efficiency.

- Network pressure
- Motor speed (regulated speed models)
- On load hours / total running hours and average volume flow
- Weekly average volume flow



iConn Compressed Air Service 4.0

- ✓ 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

...why you cannot ignore iConn!



▶ 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. Over a period of five years, energy accounts for typically 80% of the total costs. Compressed air systems typically comprise of multiple compressors delivering air to a common distribution system. The combined capacity of those machines is generally greater than the maximum site demand.

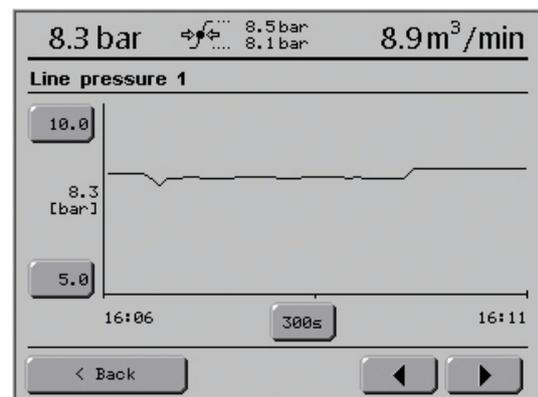
Characteristics of each compressor

8.3 bar	8.5 bar 8.1 bar	9.0 m ³ /min
Parameters compressor 1		
Control:	DELCOS XL-LRS	
Current priority:	Norm	
Total hours:	54206 h	
Loaded hours:	52025 h	
FAD max.:	9.0 m ³ /min	
FAD cur.:	7.3 m ³ /min	
FAD min.:	3.0 m ³ /min	
Final temperature:	41 °C	
Final pressure:	8.8 bar	
Line press. at compressor:	8.5 bar	
<div style="display: flex; justify-content: space-between;"> < Back Events Service on </div>		

▶ 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

Diagram display



How to add further value **AirPlus**



▶ Heat recovery

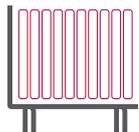
Can be either factory fitted or supplied as retrofit kit including all necessary pipe-work and fittings.

Your benefits

- Significant cost savings
- Lower CO₂ emissions
- Low investment costs
- Approximately 80% recovery



Hot Water



Heating



Industrial Process



Hot Air Blast

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.

▶ 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%.

They don't need to worry about the quality of their compressed air – quality that is key to ensuring maximum production efficiency and investment protection.

The new downstream portfolio manufactured by CompAir utilising the latest technology, provides an energy efficient solution at lowest life cycle costs. The same quality, performance and efficiency standards delivered by the compressors can now be enjoyed from the air treatment range.

- ✓ **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

PureCARE

PUREAIR SERVICING & MAINTENANCE PROGRAMME

Specifically developed to support our oil-free product range, the CompAir PureCARE service programmes go beyond traditional service schemes to ensure uninterrupted quality compressed air supply coupled with optimum compressor performance, giving you peace of mind for your production and budgeting processes.

► 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



Technical data

D37 – D75 Fixed Speed

Compressor Model	Cooling Method	Motor Rating [kW]	Nominal Pressure [bar g]			Free Air Delivered at Nominal Pressure ¹⁾ [m ³ /min]			Dimensions L x W x H [mm]	Noise Level ²⁾ [dB(A)]		Weight [kg]
						7 bar g	8.5 bar g	10 bar g		[8 bar g]		
D37	Air	37	7	8.5	6.0	5.1	-	2248 x 1372 x 1917	76		2387	
	Water				6.0	5.2			76		2410	
D45	Air	45	7	8.5	7.7	6.5	-	2248 x 1372 x 1917	76		2497	
	Water				7.7	6.5			76		2520	
D55	Air	55	7	8.5	10	9.6	8.8	2248 x 1372 x 1917	7.7	76		2577
	Water					9.6	8.8		7.8	76		2600
D75s	Air	75	7	8.5	10	12.7	11.6	2248 x 1372 x 1917	10.7	76		2682
	Water					12.7	11.7		10.8	76		2705

D75 – D315 Fixed Speed

Compressor Model	Cooling Method	Motor Rating [kW]	Nominal Pressure [bar g]	Free Air Delivered ¹⁾ [m ³ /min]		Dimensions L x W x H [mm]	Noise Level ²⁾ [dB(A)]		Weight [kg]
				8 bar g	10 bar g		8 bar g	10 bar g	
D75	Air	75	8 - 10	12.91	10.63	2597 x 1744 x 2001	75	74	3023
	Water						72	70	3223
D90	Air	90	8 - 10	15.65	13.79	2597 x 1744 x 2001	76	75	3223
	Water						73	72	3423
D110	Air	110	8 - 10	19.51	17.39	2597 x 1744 x 2001	77	77	3265
	Water						75	74	3465
D132	Air	132	8 - 10	22.39	20.50	2597 x 1744 x 2001	78	78	3432
	Water						77	76	3632
D160	Air	160	10	-	22.33	2597 x 1744 x 2001	-	78	3644
	Water						-	77	3844
D165	Air	160	8 - 10	29.0	24.9	3300 x 1994 x 2190	78	78	5170
	Water			29.1			77	78	4715
D200	Air	200	8 - 10	35.8	32	3300 x 1994 x 2190	81	81	5515
	Water			36.1			80	81	5060
D250	Air	250	8 - 10	44.1	37.2	3300 x 1994 x 2190	84	83	5670
	Water			44.5			81	82	5215
D315	Air	315	8	49.2	N.A.	3300 x 1994 x 2190	87	N.A.	5975
	Water		8 - 10		44.5		81	82	5520

D37RS – D75RS Regulated Speed

Compressor Model	Cooling Method	Motor Rating [kW]	Nominal Pressure [bar g]	Free Air Delivered At Nominal Pressure ¹⁾		Dimensions L x W x H [mm]	Noise Level ²⁾ [dB(A)]	Weight [kg]
				[m ³ /min]				
D37RS	Air	37	8.5	5.1		2080 x 1115 x 2070	65 - 74	1579
	Water						63 - 69	1624
D45RS	Air	45	8.5	6.3		2080 x 1115 x 2070	65 - 74	1579
	Water						63 - 69	1624
D55RS	Air	55	10	7.8		2078 x 1321 x 1947	76 - 80	2042
	Water						76 - 80	2042
D75RS	Air	75	10	10.6		2078 x 1321 x 1947	76 - 80	2042
	Water						76 - 80	2042

D110RS – D315RS Regulated Speed

Compressor Model	Cooling Method	Motor Rating [kW]	Working Pressure [bar g]	Free Air Delivered ¹⁾ [m ³ /min]		Dimensions L x W x H [mm]	Noise Level at 70% Load ²⁾ [dB(A)]	Weight [kg]
				min.	max.			
D110RS-8	Air	110	4 - 8	8.89	19.51	2597 x 1744 x 2001	76	3278
	Water						72	3478
D110RS-10	Air	110	4 - 10	10.51	17.68	2597 x 1744 x 2001	76	3278
	Water						71	3478
D132RS-8	Air	132	4 - 8	8.95	22.95	2597 x 1744 x 2001	77	3476
	Water						73	3676
D132RS-10	Air	132	4 - 10	10.51	21.10	2597 x 1744 x 2001	77	3476
	Water						72	3676
D160RS-10	Air	160	4 - 10	10.40	23.52	2597 x 1744 x 2001	77	3688
	Water						73	3888
D200RS-8.5	Air	200	4 - 8.5	17.3	37.4	3300 x 1994 x 2190	77	5565
	Water						77	5110
D200RS-10	Air	200	4 - 10	18	33.2	3300 x 1994 x 2190	77	5565
	Water						79	5110
D250RS-8.5	Air	250	4 - 8.5	17.4	46.9	3300 x 1994 x 2190	79	5720
	Water						78	5265
D250RS-10	Air	250	4 - 10	18.4	41.7	3300 x 1994 x 2190	79	5720
	Water						79	5265
D315RS-8.5	Air	315	4 - 8.5	16.6	51.1	3300 x 1994 x 2190	82	6025
	Water						78	5570
D315RS-10	Water	315	4 - 10	18.3	48.5	3300 x 1994 x 2190	79	5570

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

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.

Value Added Services

- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

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