



Reliability & efficiency without compromise

Rotary Screw Compressors



Premium compressor design
and industry leading warranty

L23 - L29
L23RS - L29RS

Fixed & Regulated Speed

Reliability. Performance. Value.

GERMAN 
ENGINEERING
DESIGN & MANUFACTURE

The L-Series from CompAir

Well known in the industry for quality and reliability CompAir continuously develops the L-Series achieving cutting edge performance and efficiency. The L23-L29 range of lubricated screw compressors comprises of fixed speed and regulated speed (RS) models.

► **Pressure range**

5 to 13 bar

► **Volume flow**

0.92 to 5.52 m³/min

► **Motor power**

22 to 30 kW

Engineering excellence

Compressors are more than just a financial investment, they are a key component in 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.

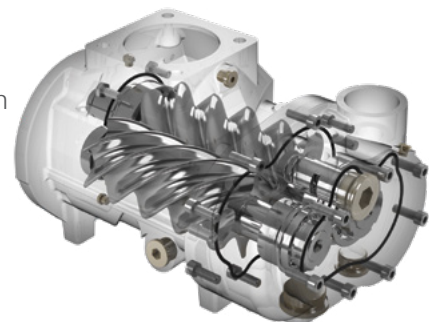
The resulting reliability and performance ensure that operating costs will remain low throughout the compressors life.



Premium efficiency airend

The high output airend with slow rotational speed reduces energy costs. In addition to this, the innovative design of the fail safe shaft seal, integrated oil filter and oil regulation valve, ensures external hoses are reduced to a minimum to guarantee the highest levels of quality and reliability are achieved. With the new extended Assure warranty, the airends are covered **up to 10 years or 44,000 hours.***

*whichever is soonest.



“CompAir lubricated rotary screw compressors incorporate the very latest technological advances and guarantee a continuous supply of high quality compressed air.”



Delcos Pro SE compressor controller

The control system ensures reliable operation and protects the investment by continuously monitoring the operational parameters. The Delcos Pro SE also has the capability to have programmable inputs and outputs, control additional equipment as well as providing the following features in clear readable text from a 2.8" Graphic Display with modern user interface:

- Discharge/line pressure display
- Air/oil temperature display
- Total hours run and under load
- Service due indicator
- Enhanced fault log monitor
- Real time clock
- Timer controlled stop/start
- Remote start/stop
- Auto restart after power failure
- Second pressure setting
- Status indication
- RS485 - Modbus RTU
- Micro-SD-Card for alarm - & data logging
- Integrated BLS-Functionality & Integrated Web-Server Light
- Via or with
- Optional module for RS485 interface & Ethernet connection

A design concept based on quality

- ▶ **Large surface after cooler**
Optimum cooling to ensure low operating and discharge temperatures.
- ▶ **High performance separator filter**
Two stage filtration ensures highest quality air is delivered to your system (< 3ppm oil carryover). The vessel has a hinged cover for easy maintenance.
- ▶ **High efficiency electric motor**
The compressors are equipped with an energy saving IE3 electric motor with reduced CO₂ emissions.
- ▶ **Thermostatically controlled motor driven fan**
High efficient and extremely quiet fan, allows compressor operation in the work place, and the use of the maximum duct length without further assistance.
- ▶ **Highest quality connections**
Solid hoses and pipe connections with viton victaulic couplings increase reliability and are easy to maintain.

AirOnDemand

Regulated Speed Compressors

effiDRIVE



The perfect response to individual air demands

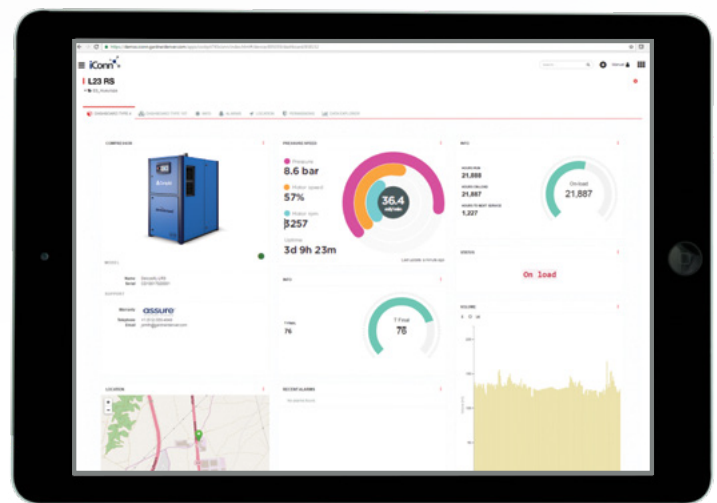
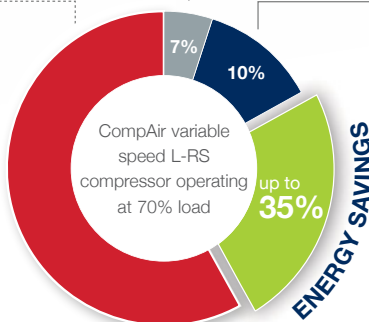
Regulated speed compressors from CompAir can efficiently and reliably handle the varying air demand found in most plant air systems.

The annual cost of ownership can be significantly reduced using regulated speed technology.

Maintenance and Service Costs

Energy Costs

Investment



CompAir RS features are your benefits

The L-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**

L-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.

Tried and tested inverter concept

- Integrated in the electric cabinet
- Protected from dust by replaceable inlet filters
- Maximum reliability by optimised cooling system
- Ensures high availability and long-life

iConn Industry 4.0 solution

The compressor range L23 to L29, RS can be upgraded with iConn. 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 efficiency upgrades

Integrated dryer

Complete with a dryer and water separator, both are fitted with zero loss drains, to eliminate expensive air loss and maximise energy efficiency. Thanks to ESD control, the dryer only consumes energy when the system needs compressed air.



Integrated heat recovery

Significant energy and costs savings can be achieved with CompAir's efficient integrated heat recovery system. It can be either factory fitted or supplied as retrofit kit including all necessary pipe-work and fittings.



Compressed air purification

Modern production systems and processes demand increasing levels of air quality. Air treatment products **manufactured by CompAir**, utilise the latest technology and provide an energy-efficient solution at the lowest life cycle costs.

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.

Investment in a manufacturing site in addition to the support teams, ensures that compressed air operators don't need to worry about the quality of their compressed air – quality that is key to ensuring maximum production efficiency and investment protection.

- Water Cyclone Separators
- Compressed Air Filters
- Condensate Drain System
- Compressed Air Refrigerant Dryer
- Heatless Desiccant Dryers
- Heat Regenerative Desiccant Dryers
- Nitrogen Generator
- SmartAir Master Plus Multi Compressor Controllers

The best investment protection you can get

The CompAir Assure Service and Warranty agreements

Cover the airend for up to 10 years.



Your benefits:

It All Adds Up to Peace of Mind

Lower Cost of Ownership

Assure 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 & Warranty 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

Assure Service agreements ensures an extended warranty. Depends on duration.



¹⁾ 10 years/44,000 hours on the air end. Whichever is the soonest. Subject to Terms & Conditions.

CompAir genuine spare parts

Enjoy complete peace of mind.

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

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



CompAir L-Series - Technical Data

L23 - L29 Fixed Speed

Compressor Model	Nominal Pressure [bar g]	Drive Motor [kW]	FAD ¹⁾ [m³/min]	Noise Level ²⁾ [dB(A)]	Weight [kg]	Dimensions L x W x H [mm]
L23	7.5	22	4.16	67	650	1345 x 880 x 1612
	10	22	3.45	67	650	1345 x 880 x 1612
	13	22	2.98	67	650	1345 x 880 x 1612
L26	7.5	26	4.84	68	677	1345 x 880 x 1612
	10	26	4.13	68	677	1345 x 880 x 1612
	13	26	3.44	68	677	1345 x 880 x 1612
L29	7.5	30	5.52	69	681	1345 x 880 x 1612
	10	30	4.81	69	681	1345 x 880 x 1612
	13	30	4.12	69	681	1345 x 880 x 1612

L23F - L29F Fixed Speed with Integrated Dryer

Compressor Model	Refrigeration dryer [type]	Pressure Dew Point ³⁾ [°C]	Weight [kg]	Dimensions L x W x H [mm]
L23F	F29E	5	840	1675 x 880 x 1612
L26F	F29E	5	867	1675 x 880 x 1612
L29F	F29E	5	871	1675 x 880 x 1612

L23RS - L29RS Regulated Speed

Compressor Model	Min. - Max. pressure [bar g]	Drive Motor [kW]	FAD ¹⁾ at 7.5 bar g [m³/min]	FAD ¹⁾ at 10 bar g [m³/min]	FAD ¹⁾ at 13 bar g [m³/min]	Noise level @ 70% load ²⁾ , 1m [dB(A)]	Weight [kg]	Dimensions L x W x H [mm]
L23RS	5 – 13	22	1.11 – 4.12	1.03 – 3.50	1.35 – 2.89	68	681	1345 x 880 x 1612
L26RS	5 – 13	26	1.11 – 4.78	1.03 – 4.10	0.92 – 3.56	69	708	1345 x 880 x 1612
L29RS	5 – 13	30	1.11 – 5.41	1.03 – 4.50	0.92 – 3.82	69	712	1345 x 880 x 1612

L23RSF - L29RSF Regulated Speed with Integrated Dryer

Compressor Model	Refrigeration dryer [type]	Pressure Dew Point ³⁾ [°C]	Weight [kg]	Dimensions L x W x H [mm]
L23RSF	F29E	5	871	1675 x 880 x 1612
L26RSF	F29E	5	898	1675 x 880 x 1612
L29RSF	F29E	5	902	1675 x 880 x 1612

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).

³⁾ Data refer to ISO 7183, working pressure of 7 bar, inlet temperature 35°C and ambient temperature 25°C.



Innovation & Engineering Excellence



A leading global manufacturer of a wide range of world-class compressed air solutions, CompAir is dedicated to providing a complete solution for our industry partners. From the latest advances in oil-free and oil-lubricated technologies to a complete range of downstream equipment, air treatment and accessories.



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 Plus 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