



# Reliability & efficiency without compromise

Rotary Screw Compressors



Premium compressor design  
and industry leading warranty

**L160 - L290**  
**L160RS - L290RS**  
Fixed & Regulated Speed

# Where reliability is key

## 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 new high capacity range L160 to L290 of lubricated screw compressors comprises of fixed speed and regulated speed (RS) models. The design focus of these compressors is purely on performance and efficiency. Apart from the premium efficiency airend, several features, such as fixed and regulated speed radial fans, have been added to further enhance efficiency and reduce running costs.

### ▶ **Pressure range**

5 to 13 bar

### ▶ **Volume flow**

6 to 47 m<sup>3</sup>/min

### ▶ **Motor power**

160 to 250 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.





**GERMAN**   
**ENGINEERING**  
**DESIGN&MANUFACTURE**

## Premium efficiency airend

The high-output compression element with slow rotational speed reduces energy costs. In addition, 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 highest levels of quality and reliability are achieved. **Under the free Assure warranty the airends are covered up to 44,000 hours or 10 years\*.**



\*Whichever is soonest

# Design Concept

## Engineered to perform

### Large surface after coolers

Optimum cooling of the air and oil circuit is achieved by drawing the coolest possible air onto the coolers from the outside. The coolers are offset and cooled independently by separate radial fans and exhaust chambers which ensures optimum oil temperature and lowest achievable air discharge temperature. This results in longer component life and lower downstream air treatment running costs.

### High performance separator filter

Two-stage filtration ensures highest quality air is delivered to your air treatment resulting in lower pressure drops and reduced overall system running costs.

### High efficiency electric motor

Premium efficiency electric motor.

### Thermostatically controlled radial fans

High efficiency, high thrust, very low noise fans fitted on both air and oil coolers.



### Automatic motor lubrication

Correct charge of lubricant to the bearings at all times delivers unrivalled reliability and reduced motor life costs.



### Viton vitaulic couplings

High quality solid hose and pipe connections ensure leak free connections keeping your compressor clean and service friendly.

### Zero loss autodrain

Fitted to the air aftercooler to remove bulk water allowing greater flexibility of installation options.



# Get in touch

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

## 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. The multilingual Delcos XL control system ensures reliable operation and protects your investment by continuously monitoring the operational parameters, which is essential for reducing your running costs.

### Features & functions

- Home Page – instant overview of the compressor status
- Real Time Clock allows pre-setting of compressor starting/stopping
- Second Pressure Setting
- Integrated Cooling and Dryer Control
- Fault History Log – for in-depth analysis

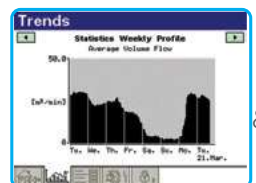
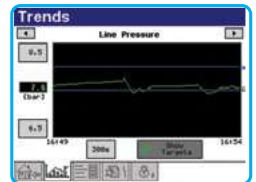


- Remote Control via Programmable Inputs
- Auto Restart after Power Failure
- Optional Base Load Sequencing
- SD Card – stores several run characteristics
- iConn enabled

### 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.

- Line / Network Pressure
- Motor Speed (Regulated Speed)
- On Load Hours / Total Hours Run
- Average Volume Flow
- Weekly Average Volume Flow



## iConn Industry 4.0 solution

The L-Series is equipped with iConn as a standard. iConn is the smart, proactive real-time monitoring service that delivers in-depth and real-time knowledge on the system to our compressed air users. It enables accurate production planning and total peace-of-mind protection, generating insight and statistics that keep users informed on performance, at the same time highlighting potential issues before they become a problem.

- Condition based monitoring
- Predictive maintenance required
- Full air manufacturing control optimisation
- External data pattern integration

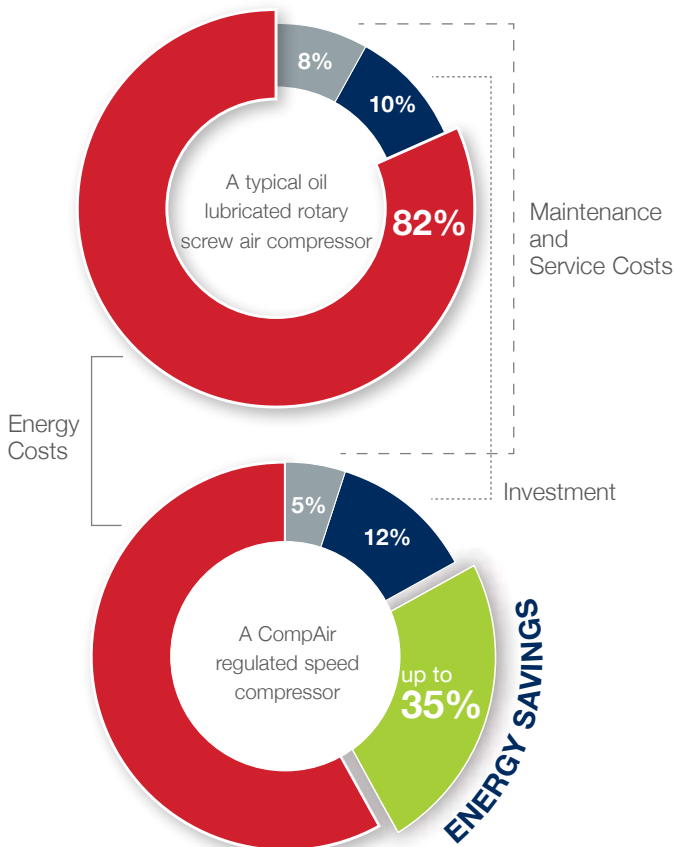


## Regulated Speed Compressors

### 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.



### Tried and tested inverter concept

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

### Regulated speed radial fan

This range can be optionally equipped with inverter driven radial fan on the oil after cooler.

- Optimises oil temperature regulation
- Saves energy costs

### 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

High efficiency across broad flow range

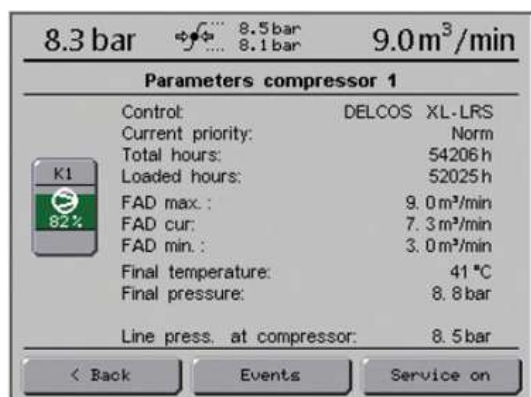


## SmartAir Master Plus compressed air management system

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.

With CompAir's advanced demand responsive sequencer SmartAir Master Plus, the efficiency of the compressor stations with up to twelve compressors including downstream equipment can be maximised. Apart from the energy savings, the compressed air management system also contributes to decreased downtime, optimum performance and monitoring, and ultimately leads to increased plant productivity.

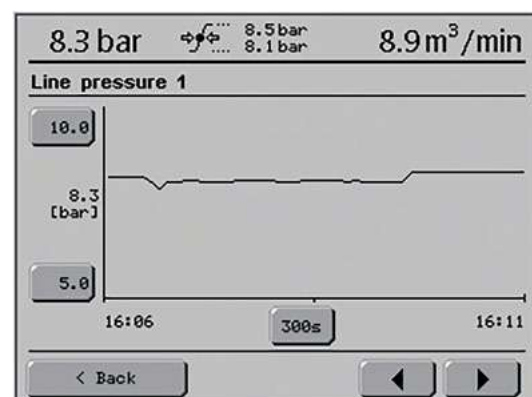
## Characteristics of each compressor



## A profitable investment

- Harmonises the workload of up to 12 fixed or regulated speed compressors
- Eliminates energy waste by tightening the network pressure to the narrowest pressure band
- Equalises the running hours for economic servicing and increased uptime

## Diagram display



# AirPlus

## How to add further value

### Heat recovery

The heat generated during compression is paid for as part of the process, then paid for again during removal by way of cooling fans. Instead of simply removing the heat, it can be used to generate free hot process water or hot water heating systems by utilising a high efficiency, factory fitted oil to water heat exchanger.

### Upgrade your compressed air system with heat recovery

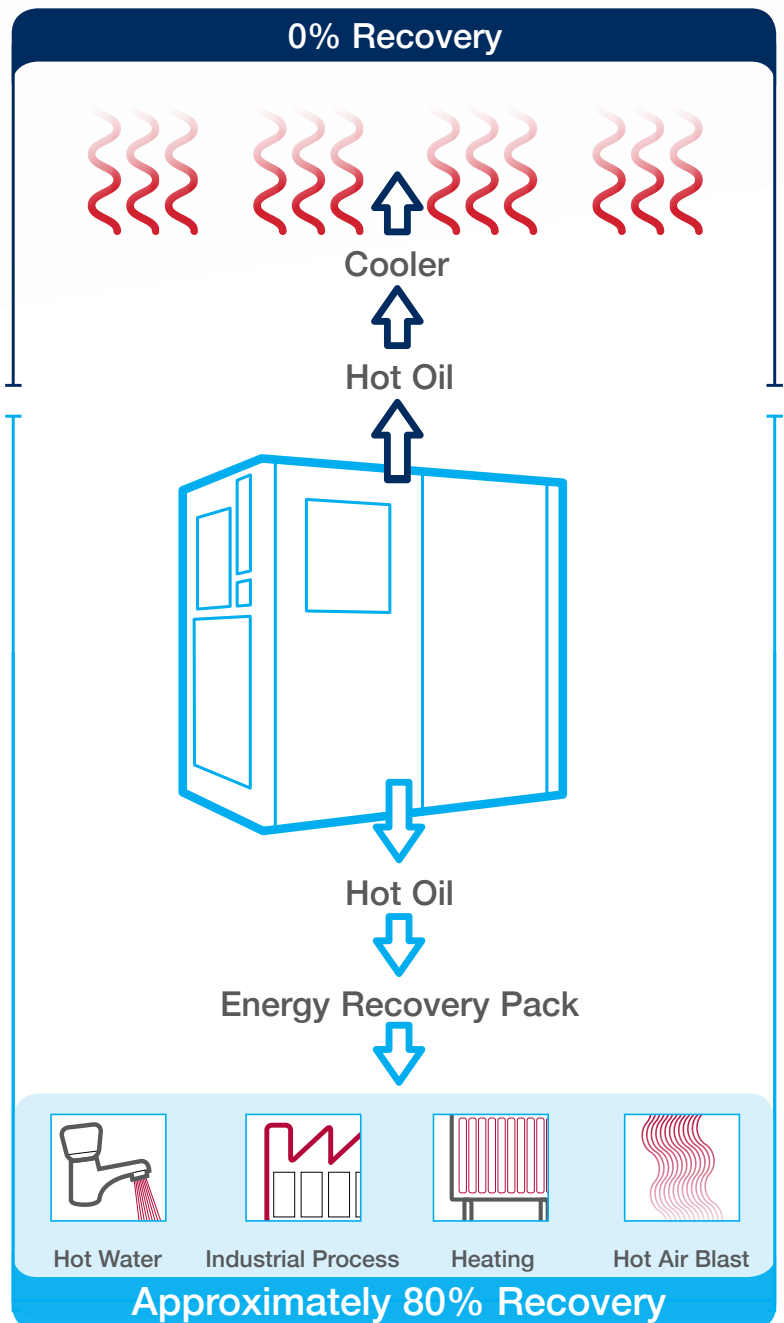
- Significant cost savings
- Lower CO<sub>2</sub> emissions
- Low investment costs

### Inverter driven radial fan

The ability to vary the speed of the fan via a frequency inverter optimises the efficiency. All regulated speed compressors are equipped with inverter driven radial fans on the oil cooler as standard. Fixed speed compressors can have it factory fitted as an option.

### 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 to control centrally up to four compressors matching the delivery to the plant demand.





## 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 air end 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.



<sup>1)</sup> 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

### L160 – L290 Fixed Speed

Compressor Model	Nominal Pressure	Drive Motor	FAD <sup>1)</sup>	Noise Level <sup>2)</sup>	Weight	Dimensions L x W x H
	[bar g]					
L160	7.5	160	32.04	76	4186	2907 x 2071 x 2193
	10	160	28.20	76	4186	2907 x 2071 x 2193
	13	160	23.91	76	4186	2907 x 2071 x 2193
L200	7.5	200	39.23	77	4415	2907 x 2071 x 2193
	10	200	34.85	77	4415	2907 x 2071 x 2193
	13	200	29.38	77	4415	2907 x 2071 x 2193
L250	7.5	250	42.03	78	4625	2907 x 2071 x 2193
	10	250	37.01	78	4625	2907 x 2071 x 2193
	13	250	32.64	78	4625	2907 x 2071 x 2193
L290	7.5	250	47.10	79	4650	2907 x 2071 x 2193
	10	250	41.53	79	4650	2907 x 2071 x 2193
	13	250	36.44	79	4650	2907 x 2071 x 2193

### L160RS – L290RS Regulated Speed

Compressor Model	Nominal Pressure	Drive Motor	FAD <sup>1)</sup>	Noise Level at 70% Load <sup>2)</sup>	Weight	Dimensions L x W x H
	[bar g]					
L160RS	5 - 13	160	6.54 - 32.33	75	4378	2907 x 2071 x 2193
L200RS	5 - 13	200	5.99 - 39.44	77	4573	2907 x 2071 x 2193
L250RS	5 - 13	250	5.83 - 42.80	78	4669	2907 x 2071 x 2193
L290RS	5 - 13	250	5.87 - 47.02	79	4684	2907 x 2071 x 2193

All Models are also available as **WATER COOLED** versions. For technical specifications please refer to the water cooled technical information sheets.

<sup>1)</sup> 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).

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



# 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