



# Reliability & efficiency without compromise

Rotary Screw Compressors



Premium compressor design

## L50, L80, L140

First-class efficiency



# Efficiency Leader

## 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 premium efficiency range L50, L80 and the new L140 feature an **extra large airend** contributing to typically **8% energy cost savings**.

▶ **Pressure range**  
7.5 to 10 bar

▶ **Volume flow**  
8.67 to 24.65 m<sup>3</sup>/min

▶ **Motor power**  
45 to 132 kW



\*Optional IE 4

## Engineering excellence

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.

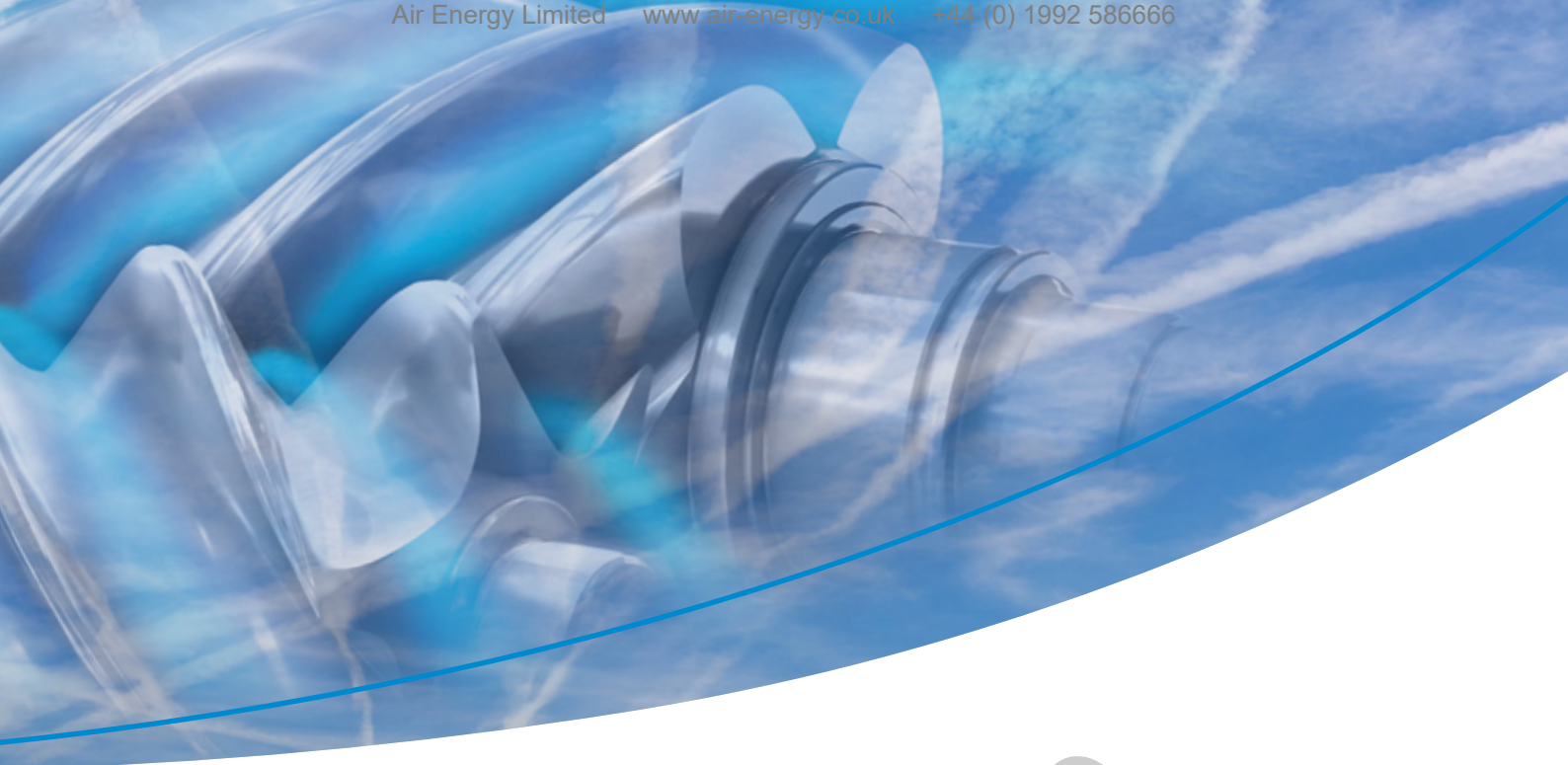


**GERMAN  
ENGINEERING  
& DESIGN**

## Leading airend efficiency

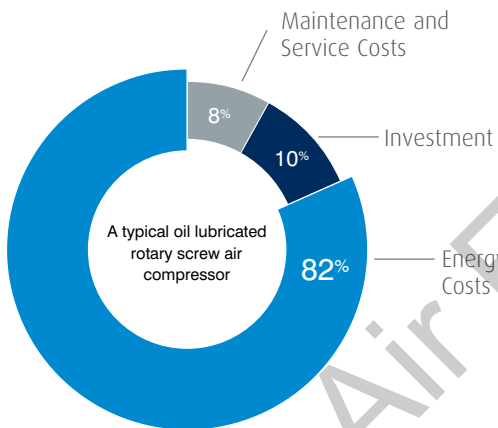
The compressors of this range are equipped with a larger airend making them outstanding in efficiency. Thanks to the reduced rotational speed, significant energy savings can be achieved. Furthermore, the noise level is reduced.

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.



## An investment that pays off

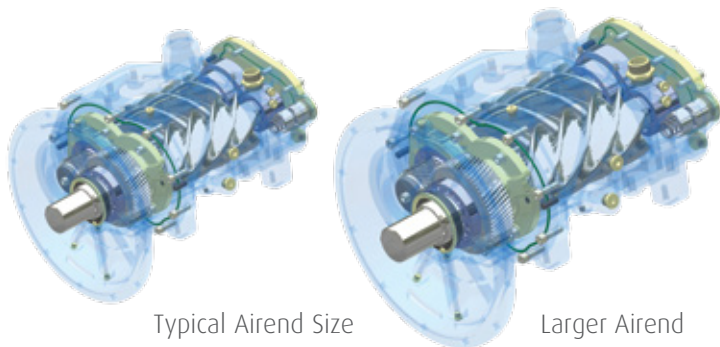
The largest cost component of a compressor is the energy to run it. The reduction of energy costs significantly impacts on the total costs of ownership.



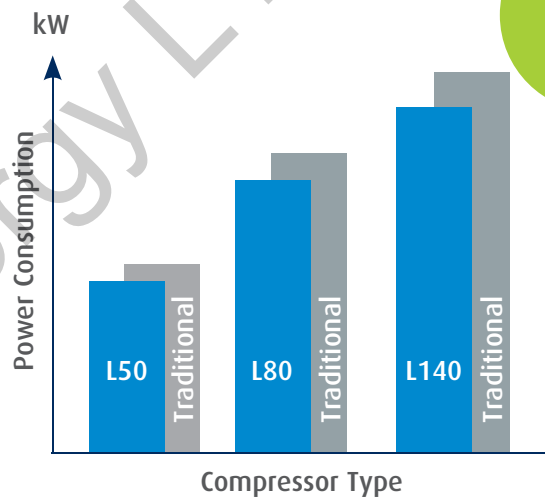
The additional investment costs for this range of super efficient compressors will pay back in many cases in less than 12 months. The extra large airend also has a longer life expectancy.

## Optimum performance

This range of compressors features an extra large airend with optimised rotor tip speed and achieves up to 8% energy savings.



## Airend efficiency



**8%**  
ENERGY  
SAVING

## Why choose this?

- Less energy costs
- Lower noise levels
- Lower total cost of ownership
- Lower maintenance costs
- Short payback time

# Where efficiency matters

## Large surface after cooler

Optimum cooling to ensure low operating and discharge temperatures.

## High performance separator filter

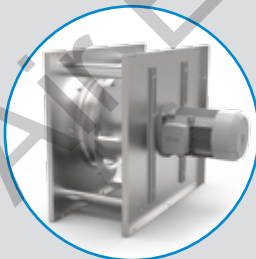
Two-stage filtration ensures highest quality air is delivered to your system (< 3ppm oil carryover).

## High efficiency electric motor

The compressors are equipped with an energy saving IE3 electric motor and are optionally available with an IE4 motor.

## Thermostatically controlled motor driven radial fan

Highly efficient and extremely quiet fan allows compressor operation in the work place, plus the use of maximum duct length without further assistance.



## Automatic motor lubrication (L80 and L140)

Increases bearing life and is maintenance free.



## Highest quality connections

Solid hoses and pipe connections with viton victaulic couplings increase reliability and are easy to maintain.

## 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



### 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.

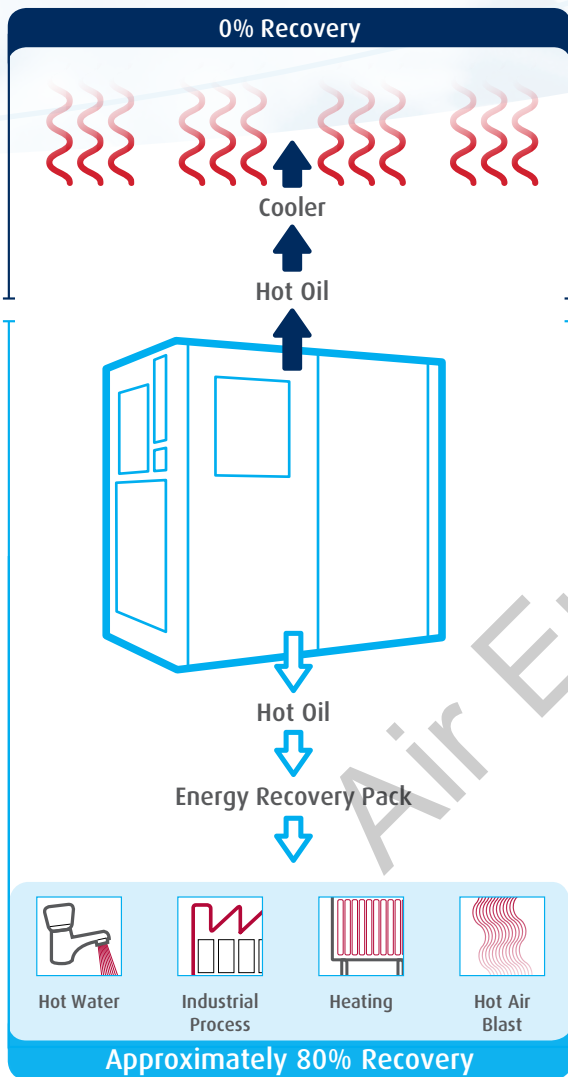
- Line / Network Pressure
- Motor Speed (Regulated Speed)
- On Load Hours / Total Hours Run & Average Volume Flow
- Weekly Average Volume Flow

# AirPlus

## Add further value

### 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.



Visit [www.compairs.com](http://www.compairs.com) to watch the heat recovery video and to access the energy savings calculation tool.

### Motor Efficiency

As a standard, all compressors of this range are equipped with an energy efficient IE3 electric motor. To achieve even higher levels of efficiency they are optionally available with an IE4 motor.



## Compressed air purification

A modern production system and process demands increasing levels of air quality. A CompAir compressed air system utilising the latest technology provides an energy efficient solution at lowest life cycle costs.

### Water Cyclone Separator X Series

Designed for efficient removal of bulk liquid contamination from compressed air.



### Compressed Air Filter CF Series

Efficient design for water, dust and particle removal.

### Bekomat Condensate Drain and Oil-Water-Separation Systems

To drain compressed air condensate without loss of compressed air and separate any filtered oil to meet all the requirements of the Water Ecology Act and of other relevant provisions.

### Compressed Air Refrigerant Dryer

CompAir offer a full range of energy efficient and environmentally friendly stand alone refrigerant dryers.



### Heatless Desiccant Dryers

Series A\_XS and A\_TX.

### Heat Regenerative Desiccant Dryers

Series A\_TV and A\_RS.



### Nitrogen Generator

Designed to achieve maximum efficiency and gas quality.

### SmartAir Master Multi Compressor Controllers

Sequencers for up to 12 units.





# Protect your investment



## Assure warranty – to ensure your peace of mind!

The CompAir Assure Warranty and Service programmes will assure you up to 44,000 hours/6 years <sup>1)</sup>. It is one of the most generous warranties available in the industry affording you total piece of mind.

### Your benefits:

- The Assure warranty is totally free to the compressor owner <sup>2)</sup>
- The CompAir authorised service provider will deliver a guaranteed quality of service
- An Assure service agreement underpinning the warranty will enable accurate maintenance, budgeting and cost of ownership
- The use of genuine CompAir parts and lubricants will maximise compressor life and efficiency

<sup>1)</sup> whichever is the soonest

<sup>2)</sup> subject to Terms & Conditions

## 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.

## 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

### L50, L80 & L140

Compressor Model	Nominal Pressure [bar g]	Drive Motor [kW]	FAD <sup>1)</sup> [m <sup>3</sup> /min]	Noise Level <sup>2)</sup> [dB(A)]	Weight [kg]	Dimensions L x W x H [mm]
L50	7.5	45	8.67	67	1055	1722x920x1659
	10		7.40			
L80	7.5	75	14.72	69	2010	2158x1223x1971
	10		12.26			
L140	7.5	132	24.65	73	3254	2337x1368x2039
	10		21.59			

### Integrated dryer option

Compressor Model	Integrated Dryer Option	Weight [kg]
L50	F45E (L50F)	120
L80	F75E (L80F)	139



<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  $\pm 3$ dB (A).

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

### Heat Recovery Performance Data

Compressor Model	Water flow rate Litre / hr		Outlet Temperature [°C]		Typical Energy Saving kW
L50	1770	708	45	75	41.0
L80	2796	1116	45	75	64.8
L140	4782	1914	45	75	110.8

The above table is dependent on the site conditions and shows examples of kW savings at stated water temperature rises. CompAir's energy recovery system offers saving on a wide range of inlet and outlet temperatures. For alternative temperatures please contact your local CompAir representative.

# 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 distributors across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

As part of the worldwide Gardner Denver operation, 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
- Piston
- Portable

### Oil-Free

- Water Injected Screw
  - > Fixed and Regulated Speed
- Two Stage Screw
  - > Fixed and Regulated Speed
- Piston
- High Speed Centrifugal - Quantima®

### 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

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

[www.compair.com](http://www.compair.com) [sales@compair.com](mailto:sales@compair.com)