CompAir

SUSTAINABLE MANUFACTURING

Reliability & efficiency without compromise

Rotary Screw Compressors

Assure iConn

Premium compressor design
and industry leading warranty

L-Series
55 - 75 kW
Fixed & Regulated Speed

Reliability & performance – quality pays off

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 lubricated screw compressor range from 55 to 75 kW comprises of fixed and regulated speed models, as well as E models providing best-in-class efficiency. All models are optionally available with integrated heat recovery and add-on dryer.

Pressure range
5 to 13 bar

Volume flow
2.1 - 14.9 m^3/min

Motor power
55 to 75 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 ensures that **operating costs will remain low throughout the compressor's life.**

Premium efficiency airend

The new GD6 airend ensures higher efficiency levels, by up to 5% compared to the previous one, providing fewer pressure drops, in an optimised compact design. CompAir's unique design, with integrated oil filter and oil regulation valve, ensures external hoses are reduced to a minimum. The integrated airend design assures the reliability of the compressor, continuous hassle-free operation and easy servicing. Under the free Assure warranty the airends are covered up to **44,000 hours or 10 years*.**

* Whichever is soonest

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

GERMAN ENGINEERING
DESIGN&MANUFACTURE

Outstanding Benefits

The upgraded 55 to 75kW screw compressors from CompAir have only a 2.23m² footprint for easier installation in more restrictive locations.

The newly redesigned models offer quick release panel access for easier servicing, redesigned & improved service parts like separators & filters. With an efficiency improvement of up to 6.8%, and a higher flow rate up to 6% from the brand new airends, this improved performance and space saving ability delivers significantly lower lifetime costs.

Designed & manufactured at the centre of excellence in Germany, the latest changes represent a continuing improvement to a range which has been developed over many decades.

Re-designed GD6 and GD8 semi integrated airends

Optimised airends provide better performance, higher efficiency levels and lower pressure drop.

Highest efficiency levels

Up to 7% improvement.

Lowest floor space requirement

In average 8% less than comparable products in the market.

Implementation of new automatic oil regulation valve for variable speed models

Adding to the efficiency improvement.

The automatic motor lubrication is standard

It increases the bearing life and is maintenance free.

The new fine separator with just one integrated sealing

Makes maintenance easy as no o-ring replacement is required.

All doors are hinged and can be removed

Reducing the space requirements and optimising accessibility.

Premium electric motor

The compressors are equipped with a premium high efficiency electric motor.

New Integrated Add-On Dryer

Sustainability is the name of the game with the all-new Integrated Add-On Dryer. With a small footprint and incorporating the latest in gas technology (R513A), this non-cycling refrigeration dryer is designed specifically to work 1 to 1 with the compressor, and is validated for performance and reliability. In fact, the R513A refrigerant used in this dryer has an extremely low environmental impact – or Global Warming Potential (GWP) – when compared to other refrigerants used in comparable dryers, making it truly climate-friendly and sustainable. With a single supply and discharge connection, the minimised circuitry and redesigned high efficiency heat exchanger delivers reduced risk of leakage.

The features are your benefits:

- Air quality & energy efficiency
- Space saving footprint
- Easy to transport & simple plug & play installation
- Removable panels for ease of servicing and access
- Environmentally-friendly – future legislation compliant
- iConn on board

The compressor's Delcos controller also monitors and controls the dryer and is connected to the iConn network:

- Continuous tracking of dryer performance
- Remote monitoring of main parameters through any terminal or using the iConnApp
- Dew point monitoring
- Alarms and warnings email notifications
- Historical and predictive analysis and trends reports

The new modular dryer is of course also covered by our Assure Warranty and genuine parts service kits are available to cover extended warranties in addition to standard servicing.

> In addition, the new heat recovery system has reduced the company's annual natural gas consumption by 15%, saving approximately €8,000 per year.

Delcos XL SE7 innovative touch screen compressor controller

The Delcos XL SE7 with its high resolution 7" 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 SE7 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
- Integrated Web-Server

iConn

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

CompAir

Energy Efficiency Meets Sustainability

Analysis & planning for sustainable energy efficiency

A precise analysis of your existing systems and calculation of the current compressed air demand and pressure level, along with that expected in the future, should always be used as the basis for any decision. If the system components, including treatment, are coordinated and maintenance expenses have been determined, running costs and energy costs can be estimated more accurately and carbon footprint reduced.

Impartial planning

It is best to approach planning without pre-conceived opinions, such as, "It has to be a screw compressor" or "we need a 75 kW machine" and consider all options. In some instances, for example, an oil-lubricated compressor may be the most suitable option to achieve desired running costs and energy savings.

While environment-friendly compressors are all about efficiency, choosing the right model for your compressed air needs is still vital. How much airflow do you need and for which applications?

Will the compressor run constantly or intermittently? So, for example, will the demand for compressed air fluctuate due to shift work, or seasonal demand? How important is air quality? These factors should always be key considerations when specifying a compressed air system.

Your compressor as a sustainable energy source

- Use the right technology for your application
- Don't compromise on the complete compressed air system
- Carry out air audits & specify the correct air receiver and downstream equipment size
- Avoid leaks and eliminate off-load running
- Choose variable speed to match air demand
- Recover heat for significant savings
- IIoT predictive maintenance coupled with the correct service agreement delivers total peace of mind

e-models - market leading energy efficiency

The e-models feature a class leading efficiency of up to **6.8%** compared to the standard models. With new technology including an automatic oil regulation valve these models can save up to **€ 4,500 in energy costs a year.**

Innovative oil regulation valve

Specially designed by CompAir's engineering team, this integrated valve:

- Eliminates the risk of condensate to avoid corrosion and extends oil's life time
- Depending on the working conditions improves efficiency by up to **5% for the variable speed models**
- Improves low running speeds

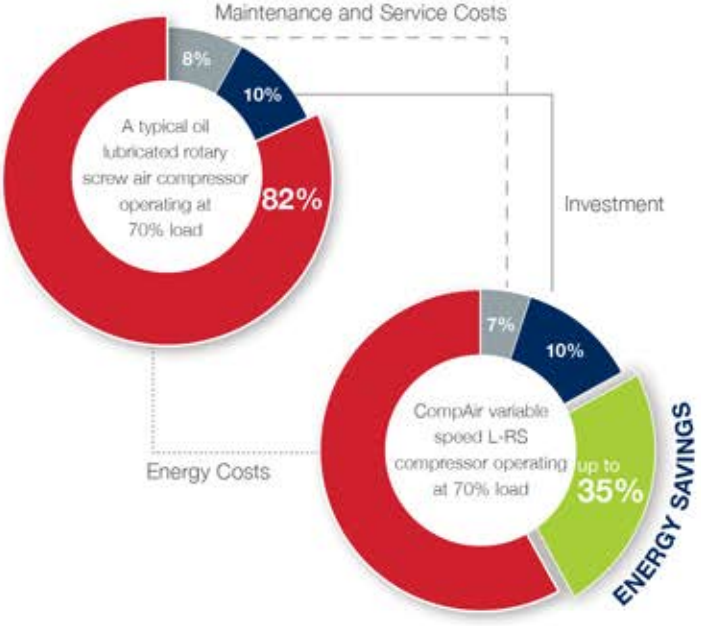
> Since installing the new compressor and heat recovery system, we are on target to achieve annual energy savings in the region of £23,000. With these energy savings, we're also set to benefit from a fast payback on return on investment
>
> **Ricky Dumbleton**
> **Senior Production Manager,**
> **Just Trays**

The perfect response to individual air demands

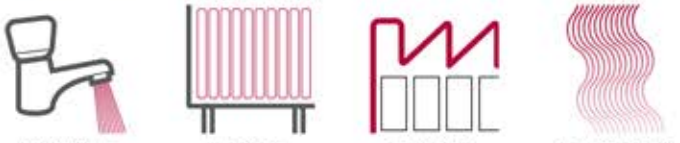
A vast amount of the energy lost in a factory or plant is due to wastage in an air compressor installation. Regulated speed (RS) technology ensures that compressed air systems perform as efficiently as possible.

CompAir's RS compressors efficiently and reliably handle the varying air demand found in most air systems which can significantly reduce the annual cost of ownership.

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



Turn waste heat to your advantage – save huge amounts of energy, cut CO_2 emissions AND improve operating costs!



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.

Around 70% of the energy needed to run a rotary screw compressor gets converted to heat during the compression process. Without heat recovery, this heat is directly blown into the atmosphere.

The heat generated during compression is paid for as part of the process, then it creates additional costs as this heat needs to be removed by cooling fans or by the use of water. At the same time, most companies consume a lot of energy and money to generate hot process water, space heating or preheat water for steam generation.

Given that compressed air systems account for 10% of all electricity used in industry, and energy is the largest single lifecycle cost of a compressor, it makes sense to recover this heat, save energy and reduce costs.

- Significant cost savings
- Lower CO_2 emissions
- Low investment costs

AirOnDemand

iConn Service 4.0

Proactive Maintenance and Service with iConn Monitoring

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.

Absolute Efficiency. Absolute Security

Not only does iConn allow deviations from the optimal plant condition to be detected early and countermeasures to be initiated, meaning that expensive failures and downtime is avoided, maintenance intervals are no longer time-controlled – but are based on individual component wear and actual system requirements.

Further more, confidentiality, data integrity, authenticity and protection are **ALL** guaranteed.

iConn from CompAir –
changing the way we do business.

iConn benefits at a glance

Proactive real-time monitoring with iConn for your compressed air installation, delivers many benefits:

- ✓ Real-time operating data available around the clock
- ✓ On-demand maintenance extends compressor life cycle and optimises costs
- ✓ Maximum compressor performance reduces energy consumption
- ✓ Predictive and preventative monitoring and warnings avoid expensive downtime
- ✓ Wear of compressed air components is identified early
- ✓ Reduce operating costs caused by increased pressure drop in filters and separators through late maintenance
- ✓ Identify potential savings by measuring costs and efficiency
- ✓ Optimised maintenance planning

iConn

Single source compressed air treatment systems

Meeting & exceeding expectations

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.

Unwanted substances can and do occur in compressed air – from the ambient air inducted and generated by the process, e.g. dirt, dust, water, oil, and other micro-contaminants. By installing the correct air treatment system for your application, moisture and contaminants that will damage your production and application efficiency and increase costs will be avoided altogether. In addition, air treatment enables the delivery of compressed air to the exact quality specified by the application or process.

Meeting or exceeding even the most stringent air purity standards by removing contaminants from compressed air with the correct filtration will undoubtedly lower operating costs significantly and extend the service life of your compressed air systems and application equipment.

In the same way, choosing the correct dryer for your application will help to eliminate moisture and prevent corrosion, avoiding expensive equipment failure and product damage.

Compressed air treatment solutions designed and manufactured by CompAir, protect your systems and processes and deliver an energy-efficient, cost-effective and environmentally-friendly solution.

A complete range of Air Treatment & Air Management products

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

CompAir

The best investment protection you can get

The CompAir Assure Service and Warranty agreements

Cover the airend for up to 10 years.

Assure

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

L55 – L75 Fixed speed

Integrated Dryer Option

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]	Dimensions L x W x H with Dryer [mm]	Pressure Dew Point [3] [°C]	Weight [kg]
L55	7.5	55	10.71	69	1405	1958 x 1138 x 1857	2458 x 1138 x 1857	3	233
	10		9.50						
	13		8.25						
L75	7.5	75	13.98	72	1495	1958 x 1138 x 1857	2458 x 1138 x 1857	3	233
	10		12.54						
	13		10.50						
L55[6]	7.5	55	10.71	69	1406	1958 x 1138 x 1857	2458 x 1138 x 1857	3	233
	10		9.57						
L75[6]	7.5	75	14.80	71	1785	1958 x 1138 x 1857	2458 x 1138 x 1857	3	233
	10		12.70						

L55RS – L75RS Regulated speed

Integrated Dryer Option

Compressor Model	Nominal Pressure [bar g]	Drive Motor [kW]	FAD [1] Min - Max [m³/min]	Noise Level [2] at 100% Load [dB(A)]	Weight [kg]	Dimensions L x W x H [mm]	Dimensions L x W x H with Dryer [mm]	Pressure Dew Point [3] [°C]	Weight [kg]
L55RS	5 - 10	55	2.50 - 10.99	69 - 72	1430	1958 x 1138 x 1857	2458 x 1138 x 1857	3	233
L75RS	5 - 13	75	2.10 - 14.03	72 - 74	1520	1958 x 1138 x 1857	2458 x 1138 x 1857	3	233

[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).
All models are available in water cooled versions.

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

CE

TÜV CERT DIN ISO 9001/ EN 29001 Certificate: 5168

CompAir

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

Value Added Services

- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

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

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.

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