CompAir

GB

05

ROTARY SCREW COMPRESSORS

FIXED SPEED

REGULATED SPEED (RS)

➔ L30 RS – L132 RS

➔ L30 – L132

INTELLIGENT AIR TECHNOLOGY

INTELLIGENT AIR TECHNOLOGY – FROM 30–132 kW FIXED & REGULATED S

PREMIUM EFFICIENCY AIREND

The high output compression element 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.

BUILT-IN INTELLIGENT CONTROLS

Precise operational control is essential to reduce running costs. All CompAir rotary screw compressors are supplied with intelligent, fully electronic controllers with efficient monitoring and user-friendly touch screen panel. This system optimises performance to demand and monitors operating parameters of the unit on site and remotely.

PEED

LARGE SURFACE AFTER COOLER

Optimum cooling to ensure low operating and discharge temperatures.

HIGHEST QUALITY CONNECTIONS

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

AUTOMATIC MOTOR LUBRICATION SYSTEM (55–132 kW)

Increases bearing life and is maintenance free.

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.

TRIED AND TESTED INVERTER CONCEPT

Integrated in the electric cabinet.

ENERGY SAVING ELECTRIC MOTOR

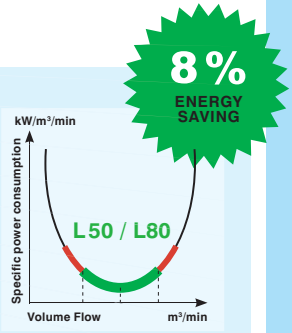
The compressors are equipped with an energy saving high efficiency electric motor which reduces CO_2 emissions.

THERMOSTATICALLY CONTROLLED MOTOR DRIVEN FAN

High efficiency extremely quiet fan allows the compressor to be operated in the work place, and achieves the maximum duct length without assistance.

L50 / L80 – THE ENERGY SAVERS

The extension of the 45/75kW class with L50/80 achieves 8% energy saving. Utilising the premium sized airend with optimised rotor tip speed, the compressor works more efficiently and furthermore lowers the noise level.



Best performance for optimal volume flow – AirEnd Performance

COMPAIR'S ENERGY SAVING MACHINES COMPRESS NOT ONLY AIR BUT ALSO:

- Your Energy Costs
- Your Maintenance Bills
- The Noise Level
- The Footprint
- The Environmental Burden

OIL-INJECTED ROTARY SCREW COMPRESSORS

The new range of CompAir oil-injected rotary screw compressors incorporate the very latest technological advances and manufacturing processes to provide users with a continuous supply of economic and reliable high quality compressed air.

COMPACT DESIGN

The small footprint reduces the space required for installation. As the doors can be removed in seconds this allows full access for easy maintenance.

Compressor Models	
Frame 3	L30, L37, L45, L50
Frame 4	L55, L75, L80
Frame 5	L90, L110, L132
RS Models	L30RS, L37RS, L45RS, L55RS, L75RS, L90RS, L110RS, L132RS Regulated Speed with Energy Savings up to 40%

INTELLIGENT CONTROLLER TECHNOLOGY BY COMPAIR

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.

get in touch

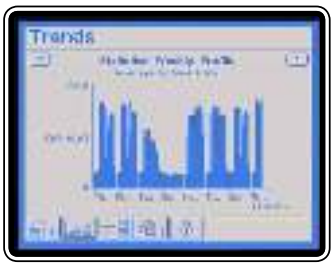
with the next generation of compressor controllers

- *SAFE & RELIABLE OPERATION*
- *FLEXIBILITY*
- *EASY TO USE INTERFACE PANEL*
- *COST EFFICIENCY*

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 the efficiency.

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



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
- Optional SD Card
  – stores several run characteristics

SmartAir *Master* – *HIGH EFFICIENT MULTI-COMPRESSOR CONTROL SYSTEM*

Modern compressed air stations are required to be more energy efficient, reliable and meet higher standards of safety.

The SmartAir *Master* can efficiently control up to 12 compressors of any combination, fixed or variable speed, and will reduce energy consumption by tightening the network pressure to the smallest possible band, keeping off-load running to the absolute minimum.

Demand responsive operation ensures that where varying capacity compressors are installed only the correct combinations of compressors are selected to meet the system demand, resulting in maximum energy savings.

BENEFITS AT A GLANCE

- User-friendly and self-explanatory colour graphics displayed via touch screen
- Maximum energy and cost savings by reducing off-load times to a minimum
- Simple installation with low cabling costs using a data cable with a “bus structure”
- Complete overview of the status of the entire compressed air station
- The DELCOS controllers can be connected without any additional hardware

INTELLIGENT ENERGY SAVING TECHNOLOGY!

Reduce the cost of ownership and minimise your energy consumption!

Compressed air is a versatile, flexible and safe way to transmit energy. Almost all industrial businesses use it. In fact, over 10% of electricity supplied to industry is used to compress air.

According to “EU-SAVE II” project in Europe compressed air stations consumed in 2000 roughly 80,000,000,000 kWh.

However, as much as 30% of this energy is lost through leaking systems – equal to the entire output of a medium-sized power station. Much more is wasted due to compressed air misuse and poor maintenance.

CompAir Products and Services have been designed to save energy across your compressed air system.

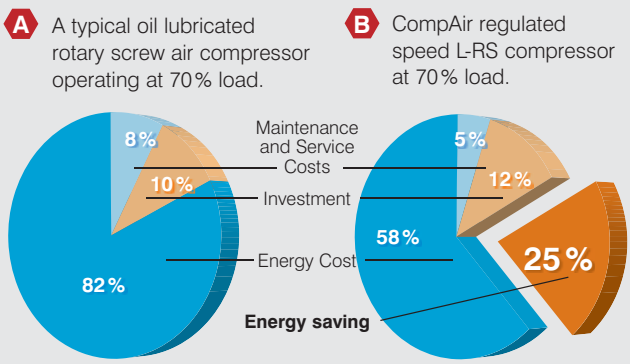
Perfect response to your individual air demands with regulated speed technology

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

These compressors speed up and slow down to match air supply to air demand as it fluctuates. The right variable speed compressor in the right application delivers significant energy savings and a stable air supply at constant pressure.

REMARKABLE ENERGY SAVINGS

Annual cost of ownership with regulated speed compressors



- Excellent efficiency
- High reliability
- Low cost of ownership
- Accurate pressure monitoring

$E=mc^2$

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

CompAir RS features are your benefits!

Wide regulation range

- No cycles means substantial energy savings

Perfect motor – drive – airend design

High efficiency across broad flow range

- Substantial energy savings performance.

Tried and tested inverter concept

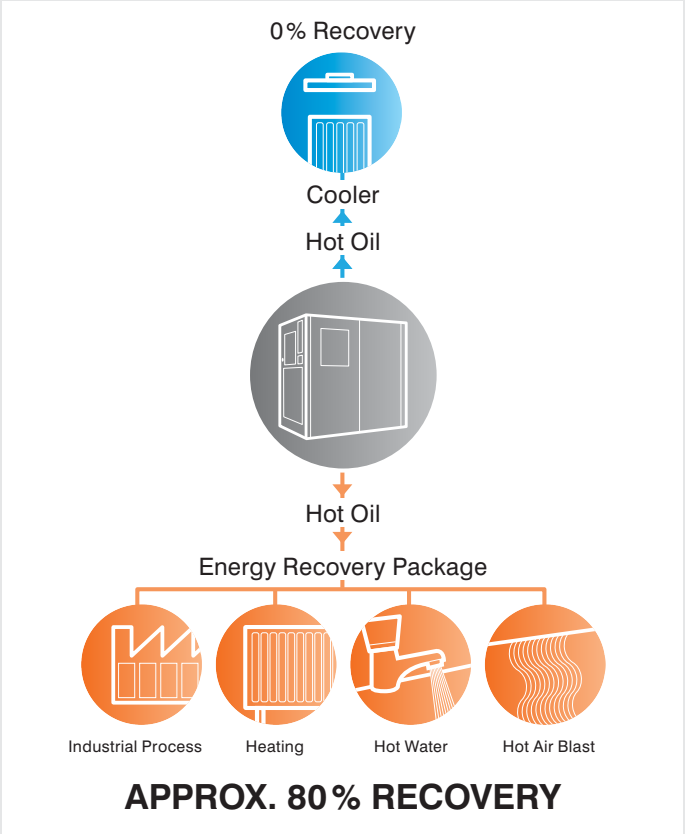
- Integrated in the electric cabinet
- Protected from dust by replacable inlet filters
- Maximum reliability by optimised cooling system
- Ensures high availability and long life time

RECOVER THE EXCESS HEAT IN YOUR COMPRESSOR AND SAVE MONEY

Approximately 10% of all electricity used in industry is accounted for by compressed air systems. It is a thermodynamic fact that around 95% of this energy is converted to heat and is wasted to the atmosphere through heat dissipated by the motor and cooling system, with the majority lost via the oil cooler.

CompAir's heat exchangers give you the opportunity to save money, energy and reduce your carbon footprint. They can be factory fitted, or are available in a kit form comprising all the necessary pipe-work and fittings to be retrofitted in the field.

Energy Recovery System – factory fitted or retrofit kit



assure™

First Class Compressor - First Class Warranty

WARRANTY

To ensure your peace of mind!

The CompAir Assure Warranty and Service programs will assure you up to 44,000 hours/6 years [1] peace of mind, and is one of the most generous warranties available in the industry.

Your Benefits:

- The Assure warranty is totally free to the compressor owner [2]
- 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

[1] whichever is the soonest
[2] subject to Terms & Conditions

ADVANCED DESIGN – EASY SERVICING

The design of these packages assures 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 also lowers maintenance costs.

GENUINE SPARE PARTS

Enjoy complete peace of mind with CompAir

Genuine CompAir spare 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 the following characteristics:

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

Immediate availability of spare parts and lubricants

CompAir’s stock control policy makes use of best practice found in the aerospace and automotive industries. This ensures that the most appropriate spare parts and lubricants are available on demand, guaranteed. This guarantee of the availability of parts applies throughout the service life of your installation, whatever the purchase date of your compressor.

COMPRESSED AIR PURIFICATION

A modern production system and process demand increasing levels of air quality. This requires the elimination of moisture; filtration guarantees the highest product quality and efficient operation.

The perfect compressed air system consists of a compressor with after cooler, water separator, pre filter to refrigerant or desiccant dryer and high efficient filtration system complete with a condensate management system and storage tank.

A CompAir compressed air system utilising the latest technology provides an energy efficient solution at lowest life cycle costs.

Water Cyclone Separator X N Series
Designed for efficient removal of bulk liquid contamination from compressed air.

Integrated Dryer
L30F to L80F with integrated refrigerant dyer and water separator both with zero loss drain provide clean and dry compressed air and is ready to operate. No site installation of tubes and fittings between compressor, dryer and drain and no pre filter or by pass are required. Dryer performance fits 100% to the compressor – no dew point peak caused by overload at high compressed air demand. The small footprint requires less space and is suitable for work place installation having a low noise level.

Compressed Air Filter CF N Series
Particle removal including water and oil aerosols.

Compressed Air Refrigerant Dryer
With pressure dew point down to 3°C CompAir offer a full range of energy efficient and environmentally friendly stand alone refrigerant dryers.

Refrigerant - Zero ODP
Ozone friendly.

Heatless Desiccant Dryers
Series A_XS and A_TX.

Heat Regenerative Desiccant Dryers
Series A_TV and A_RS.

Condensate Drain Bekomat
System to drain compressed air condensate without loss of compressed air.

Oil-Water Separation System
Proven and enhanced oil-water separation system for disposal of compressed air condensate.

TECHNICAL DATA

FIXED SPEED ROTARY SCREW COMPRESSORS:

COMPRESSOR MODEL		L30			L37			L45			L50		L55		
Nominal pressure	bar g	7.5	10	13	7.5	10	13	7.5	10	13	7.5	10	7.5	10	13
Drive motor	kW		30			37			45			45		55	
FAD[1]	m³/min	5.75	5.11	4.36	7.10	6.17	5.30	8.00	7.00	6.11	8.67	7.40	10.69	9.51	8.24
Noise level[2], 1 m	dB(A)		67			68			69			67		69	
Weight	kg		923			966			988			1055		1725	
Dimensions (LxWxH)	mm	1722 x 920 x 1659			1722 x 920 x 1659			1722 x 920 x 1659			1722 x 920 x 1659		2158 x 1223 x 1971		

INTEGRATED DRYER OPTION		F30E (L30F)			F45E (L37F)			F45E (L45F)			F45E (L50F)		F55E (L55F)		
Pressure dew point[3]	°C		3			3		4	3	3	4	3		3	
Pressure Drop	kPa		8			12			14			17	20	16	12
Total power	kW		1.3			1.8								2.2	
Weight	kg		110			120								128	

COMPRESSOR MODEL		L75			L80			L90			L110			L132		
Nominal pressure	bar g	7.5	10	13	7.5		10	7.5	10	13	7.5	10	13	7.5	10	13
Drive motor	kW		75			75			90			110			132	
FAD[1]	m³/min	13.74	12.44	10.43	14.72		12.26	17.45	15.47	13.45	20.77	18.63	16.21	22.87	21.27	18.59
Noise level[2], 1 m	dB(A)		72			69			73			75			76	
Weight	kg		1765			2010			2513			2614			2778	
Dimensions (LxWxH)	mm	2158 x 1223 x 1971			2158 x 1223 x 1971			2337 x 1368 x 2039			2337 x 1368 x 2039			2337 x 1368 x 2039		

INTEGRATED DRYER OPTION		F75E (L75F)			F75E (L80F)		
Pressure dew point[3]	°C		3			3	
Pressure Drop	kPa	16	12	10	16	12	10
Total power	kW		3.3			3.3	
Weight	kg		139			139	

L55 to L132 models are also available as **WATER COOLED** versions, for technical specifications please refer to the water cooled technical information sheets.

REGULATED SPEED ROTARY SCREW COMPRESSORS (RS):

COMPRESSOR MODEL		L30RS	L37RS	L45RS	L55RS
Min – Max Pressure	bar g	5 – 10	5 – 13	5 – 13	5 – 10
Drive motor	kW	30	37	45	55
FAD[1] at **7.5 bar g**	m³/min	1.33 – 5.49	1.47 – 6.84	1.47 – 7.93	2.42 – 10.23
Noise level at 70% load[2], 1 m	dB(A)	66	67	70	67
Weight	kg	925	952	974	1726
Dimensions (LxWxH)	mm	1722 x 920 x 1659	1722 x 920 x 1659	1722 x 920 x 1659	2158 x 1223 x 1971

COMPRESSOR MODEL		L75RS	L90RS	L110RS	L132RS
Min – Max Pressure	bar g	5 – 13	5 – 13	5 – 13	5 – 13
Drive motor	kW	75	90	110	132
FAD[1] at **7.5 bar g**	m³/min	2.25 – 13.47	4.76 – 17.60	4.76 – 20.68	4.76 – 22.72
Noise level at 70% load[2], 1 m	dB(A)	71	72	72	74
Weight	kg	1800	2768	2770	2786
Dimensions (LxWxH)	mm	2158 x 1223 x 1971	2337 x 1368 x 2039	2337 x 1368 x 2039	2337 x 1368 x 2039

L55RS to L132RS models are also available as **WATER COOLED** versions, for technical specifications please refer to the water cooled technical information sheets.

[1] Data measured and stated in accordance with ISO1217, Ed. 4, Annex C & Annex E at 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

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

CompAir

Part of the Gardner Denver Group

INNOVATIVE PRODUCTS AND SERVICES

– TRUST COMPAIR TO SUPPLY INTELLIGENT COMPRESSED AIR SOLUTIONS

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 Dryer
- Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer

Modern Control Systems

- CompAir DELCOS Controllers
- SmartAir Master Sequencer

Value Added Services

- Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

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

CE

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