



L30 - L250

Oil Injected Rotary Screw Compressors



Intelligent Air Technology



## L30 - L250 Oil-Injected Rotary Screw Compressors

The latest CompAir range of 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.

CompAir's experience and advanced manufacturing techniques ensure high productivity

CompAir's experience in the design and manufacture of high quality compressed air systems spans almost 200 years. Today, through a continued programme of research and development, CompAir delivers the high performance and quality standards that industry demands.

Screw compression elements are manufactured in-house using the latest CNC rotor grinding machinery, coupled with on-line laser technology, in order to maintain precise manufacturing tolerances. The resulting reliability and performance ensure that operating costs will remain low throughout the compressors life.

### A range of compressed air systems to suit all applications

Industries, both large and small, rely on CompAir rotary screw compressors for a supply of consistently high quality compressed air. This brochure covers compressor sizes from 3.7 to 42.7m<sup>3</sup>/min over a pressure range between 5 and 13 bar and are available in both air- and water-cooled models.

Pre-packaged with single connections for power supply, compressed air and built-in cooling system, the installation of all CompAir L Series compressors is greatly simplified.

Ongoing investment in the latest design and manufacturing tools, and rigorous implementation of ISO 9001 approved quality systems, ensure you take delivery of a reliable, high quality product.



Powerful, Economic, Reliable

Reduces Energy Consumption

Easy to Install

Minimises Installation Costs

Increases Reliability and Productivity

Simplifies Maintenance

Instant Monitoring and Control

Low noise levels



*The CompAir screw profile - the result of continuous research and development*



*The CompAir L Series.  
A high capacity air compressor range that sets the highest standards in reliable, economic and efficient operation.*



L30 - L250

## High Performance and Efficiency

The latest CompAir rotary screw compressor designs ensure low system and compressed air temperatures. This guarantees excellent cooling and maximum service life for all components.

The high capacity compression element, with low rotor-tip speeds and optimised oil injection, gives high efficiency with maximum reliability.

### Extremely effective drive systems

The compression element is driven at optimum speed for the application through high efficiency drive systems; this maintenance free coupling of the drive motor to the compression element ensures perfect alignment and efficient power transmission with minimum drive losses.

The unique systems ensure:

- High Efficiency
- Constant drive efficiency over the life of the transmission
- Operational reliability
- No maintenance

### Highly efficient cooling system

Cooling is achieved with an independent, motor-driven fan. Cold air passes over the inside of the plant picking up radiant heat so there is no temperature build-up under the canopy. This allows for safe operation in the most arduous conditions.

A large surface after-cooler gives the benefits of:

- Compressed air delivery temperatures to as low as 5°C above ambient (dependent on model)
- Less water vapour in the compressed air leading to longer life for air system components
- Additional fans are not normally required when exhaust ducting is installed, reducing installation and operating costs.

A large oil cooler gives low system temperatures, resulting in longer life for oil, filters and seals. Furthermore, the large cooler also gives:

- Lower pressure drop and improved efficiency
- Less possibility of fouling.

As an option a heat recovery system can be incorporated into the oil circuit.



*Plant cooling fan. The cool air passing through the unit picks up all radiant heat*



*The large aftercooler effectively cools compressed air to as low as 5°C above ambient (dependent on model)*



*The high capacity compression element, with low rotor-tip speeds, gives high efficiency with maximum reliability*



*Large reclaimers with generously-sized fine separator elements, large oil coolers and aftercoolers*



*CompAir employs only the very best manufacturing techniques - your guarantee for reliability and performance*

## Minimal installation costs

The L series compressors are designed for simple and easy installation.

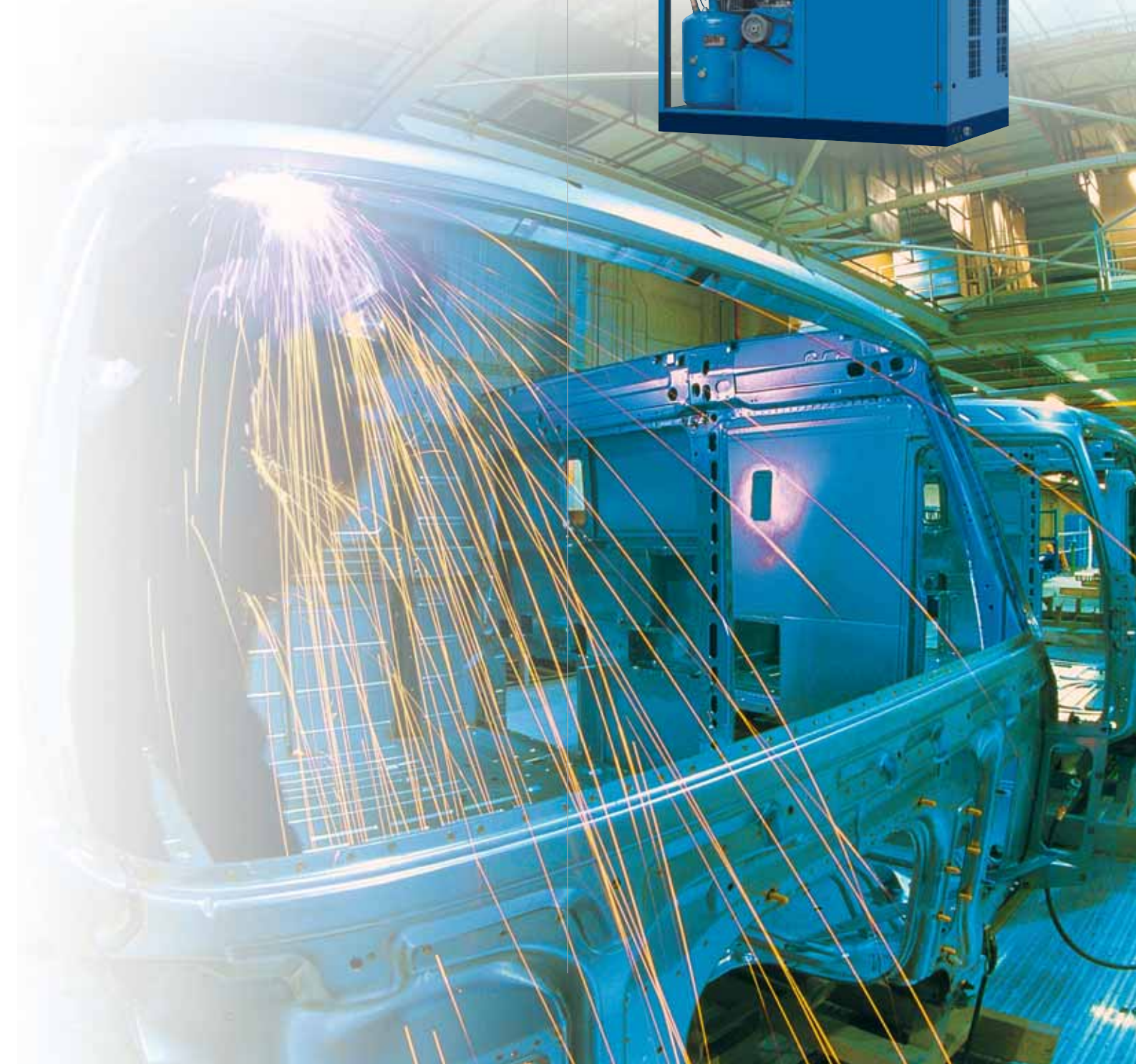
- Transportable by fork lift
- Compact footprint
- Installation against a wall possible
- Simple connections for compressed air and electrical supply
- Easy commissioning
- Configured for connection to ducting systems

## Low noise levels

The sound insulation and compressor design reduces noise to low levels, eliminating the need for a separate compressor house.

## Low service costs

The innovative compressor design saves unnecessary service costs. All component parts are designed for a long service life and the generously-sized suction filters, oil filters and fine separators ensure excellent compressed air quality. Quick access service points allow servicing to be conducted in minutes, minimising downtime and service costs.



## Built-in intelligent controls

Close operational control is essential to reduce running costs. All CompAir rotary screw compressors are supplied with intelligent, fully electronic controllers with simple controls and a user-friendly menu.

This system optimises performance to demand and monitors operating parameters of the unit.

*The fully electronic system offers superb performance with simple controls and user-friendly menu*



## Safety assured

- Automatic systems check prior to start-up
- Monitoring of all safety-related parameters
- Automatic re-start after power failure.

## Cost saving

- Automatic operation - the motor only runs when required
- Service intervals are monitored for optimised replacement of air intake, oil and separator filter elements
- Drive system protected by soft start
- Timed control of starting frequency
- Thermostatically controlled cooling fan - saves power in idle running mode.

## Pressure transducer

Allows programming of pressure control within 0.2 bar.

The lower the pressure differential, the higher the cost saving by not running at greater pressures than required.

## Base load selector

The base load selector allows CompAir L Series to control other compressors in the installation, enabling them to benefit from the accurate pressure control and improved economy of the air system.

## Additional features

- Remote start/stop facility
- Service history fault memory
- The electronic system is able to control accessory equipment, such as dryers, condensate drains and filters
- Choice of five languages.



## Technical Specifications

Model	Drive Motor kW	Free Air Delivered m <sup>3</sup> /min			Dimensions (mm)			Noise dB(A)**	Weight Kg*
		7.5 bar g	10 bar g	13 bar g	Length	Width	Height		
L30	30	4.7	4.2	3.75	1500	1100	1410	74	750
L37	37	5.75	5.2	4.4	1500	1100	1410	74	780
L37S	37	6.68	5.61	4.8	1800	1200	1650	69	1147
L45	45	7.84	6.98	5.6	1800	1200	1650	70	1287
L55	55	10.7	9.5	8.2	2158	1223	1971	71	1725
L75	75	13.7	12.4	10.4	2158	1223	1971	72	1765
L90	90	15.4	13.6	12.5	2074	1600	1904	70	2755
L110	110	18.0	15.8	13.9	2074	1600	1904	71	2895
L132C	132	20.4	18.4	16.3	2074	1600	1904	78	3030
L132	132	24.2	21.0	17.6	2800	1920	2073	75	3965
L160	160	28.4	25.1	21.3	2800	1920	2073	76	4000
L200	200	36.6	31.0	27.2	2800	1920	2073	78	4630
L250	250	42.7	38.0	33.2	2800	1920	2073	78	5185

### LSR Compressors

LSR compressors compliment the standard L Series range and utilise a unique switched reluctance variable speed drive system. The drive system enables the compressor to match output to varying demands and as a result provide energy savings. Adding an LSR compressor to any installation of standard L Series compressors gives the entire system the ability to precisely match output to demand, allowing the compressors to consume exactly the right amount of energy to do the job, and no more

Minimum working pressure: 5 bar g.  
 L30 - L37: Air Cooled  
 L37S - L250: Air or Water Cooled  
 Performance data according to Cagi Pneurop/PN 2 CPTC 2.  
 @ 50 Hz  
 \* Air Cooled with IP55 motor  
 \*\* Measured in accordance with Pneurop/Cagi PN8NTC2.3, tolerance +/- 3 dB(A)

# Intelligent Air Technology

Compressed air solutions for every application

## Compressors

0.1 - 43m<sup>3</sup>/min  
0.75 - 260kW

## Lubricated

Rotary Vane  
Single Stage Screw  
Speed Regulated Screw

Piston  
Portable

## Oil-Free

Two Stage Screw  
Water-Sealed Screw  
Piston  
Portable  
Turbo

## Complete Accessories Programme

Filters and Dryers  
Cooling Systems  
Heat Recovery  
Condensate Management  
Air Receivers  
Multi-Set Controllers  
Lubricants

## Value Added Services

Air Audit  
Performance Reporting  
Utility Air  
Performance Contracting

## Complete Service for Compressed Air Technology

Engineering of Complete Compressor Stations  
Local Service Centres  
Guaranteed Parts Availability



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