



L04 - L22

Oil Injected Rotary Screw Compressors



Intelligent Air Technology



## L04 - L22 Oil-Injected Rotary Screw Compressors

The prime objective in the development of the L Series oil injected rotary screw compressors was to provide a range of compressors that combined high performance, low operating costs and reliability with ease of installation and servicing.

CompAir's sound engineering principles and innovative design ensure performance and reliability.

CompAir's success in compressor design stems from nearly 200 years of continuous research and development coupled with the very latest production methods ensure the delivery of the high performance and quality standards that industry demands.

Screw compression elements are designed, developed and then manufactured in house using the latest CNC rotor grinding technology, coupled with on line laser measurement, in order to maintain precise manufacturing tolerances. The resulting reliability and performance ensure that operating costs will remain low throughout the compressor's 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 constantly high quality compressed air. L04-L22 compressors provide outputs from 0.45 to 3.46 m<sup>3</sup>/min at pressures between 5 and 13 bar g, and all models are air cooled.

Pre-packed with single connections for both power and compressed air and able to fit through standard doorways, the installation of these L Series compressors is simple.

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.



## Compression Element

Designed and manufactured by CompAir to deliver compressed air reliably and efficiently.

## High Efficiency Drive Motor

Reduces power costs.

## Electronic Control System

Reliability and simplicity of operation.

## 24 Volt Controls

Safe operation.

## Simplified Servicing

Routine service items grouped in one area, reducing downtime and cost.

## Factory-Filled CompAir Long-Life Lubricant

Reduces servicing costs by extending oil change periods to up to 4000 hours.

## Up to 45°C Ambient Capability

Ensures reliability and stress-free operation through efficient heat dissipation.

## Low Noise Levels

Reduced installation costs.

## High Quality Air

Efficient air/oil separation system and optimum aftercooling.



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*A small installation footprint simplifies installation while low noise levels allow siting, without disturbance, near personnel or equipment. All models are designed to pass through standard doorway for ease of positioning.*



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## High Efficiency Motors

L07 - L22 compressors are available with energy saving CEMEP\* EFF1 high efficiency electric motors. All motors when coupled with the high specific output CompAir compression elements result in highly energy efficient, high performance compressors.

\*European committee of manufactures for electrical machines and power electronics.



*Grouped Service Components*



*Fully Integrated Design*



*A Reliable and Highly Efficient Drive System*



# Excellence in Every Detail

CompAir compressors deliver high quality, cool compressed air - ideal for a wide range of production processes.

An air/oil separation system incorporating centrifugal, gravity and filtered separation ensures very low oil carryover.

## Service-Friendly Design

Although compact, the compressor design allows for:

- Short servicing times
- Long service intervals
- Reduced service costs.

## First-Class Accessibility

Panels and covers are easily removable with quick-release catches.

## Easy Service Items

- Spin on/off separator cartridge gives residual oil carryover of less than 3mg/m<sup>3</sup>
- Quick oil change via external drain
- Easy access suction filter element.

## Minimum Space Requirement

- Small footprint saves space, allowing installation even in restricted areas.

## Automatic Belt Tensioning System

- Maintenance free
- Minimises belt slip
- Provides correct belt tension
- Gives long belt life.

## Sound-Proofed Package Design

- Gives low operational noise levels.

## Electronic Control

- Makes operation and monitoring simple.

## Ergonomic Control Panel

- Avoids input errors
- Increases operational safety.

## Compression Element

- Provides high air output
- For minimum power consumption
- Optimised oil injection.

## Drive Motor

- High efficiency IP55 motor for operational reliability.

## Combined Air/Oil Cooler

- Equipped with a bypass for rapid warm-up and control of the oil temperature, resulting in no unnecessary wear or condensate in the compressor system
- Low air discharge temperature.

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



# Low Service Costs

Our innovative compressor concept saves our customers unnecessary service costs. Quick access service points allow servicing to be carried out in minutes. The intake filter, oil level indicator, oil fill point, spin on/off oil filter and separator elements are conveniently grouped behind a lift-off canopy section so downtime and service costs are kept to a minimum.

All component parts are designed for long service life. Generously-sized suction filters, oil filters and final separators ensure long service life and excellent compressed air quality.

# Intelligent Controls

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All CompAir compressors are equipped with electronic controllers as standard, ensuring reliable operational control and monitoring.

The control system protects our customers' investment by continuously monitoring operational parameters as well as providing the following features:

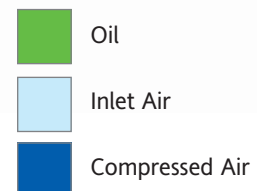


Integrated Control Panel

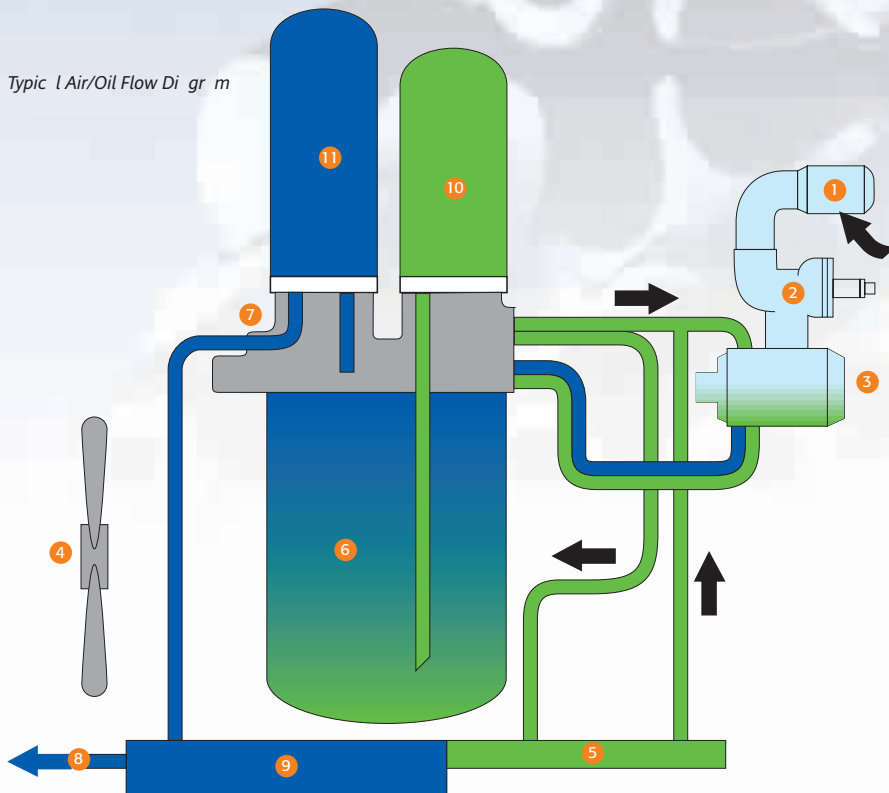
- Discharge pressure display
- Air/oil temperature display
- Hours run display
- Service due indication
- Fault indication
- Remote start/stop
- Remote load/unload (L07 - L22 only)
- Group fault output
- Automatic restart on power failure.

## Key to diagrams

- 1 Intake Air Filter
- 2 Suction Regulator
- 3 Compression Element
- 4 Fan
- 5 Oil Cooler
- 6 Primary Oil Separator
- 7 Minimum Pressure Non-Return Valve
- 8 Delivery Air Outlet
- 9 Aftercooler
- 10 Oil Filter
- 11 Final Separator



Typical Air/Oil Flow Diagram



## 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		
L04	4.0	0.50	0.45	-	580	520	950	67	140
L05	5.5	0.72	0.66	-	580	520	950	68	150
L07	7.5	1.14	0.93	0.69	687	585	1000	68	196
L11	11.0	1.68	1.41	1.14	687	585	1000	69	205
L15	15.0	2.47	2.10	1.68	823	696	1162	69	328
L18	18.5	3.07	2.60	2.22	823	696	1162	70	338
L22	22.0	3.46	3.04	2.58	823	696	1162	70	353

Minimum working pressure: 5 bar g. Performance data according to Pneurop Cagi/PN 2 CPTC 2. Air Cooled with IP55 motor.



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Quick and easy access to all service components and belt drive system

## 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.

# 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

## 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

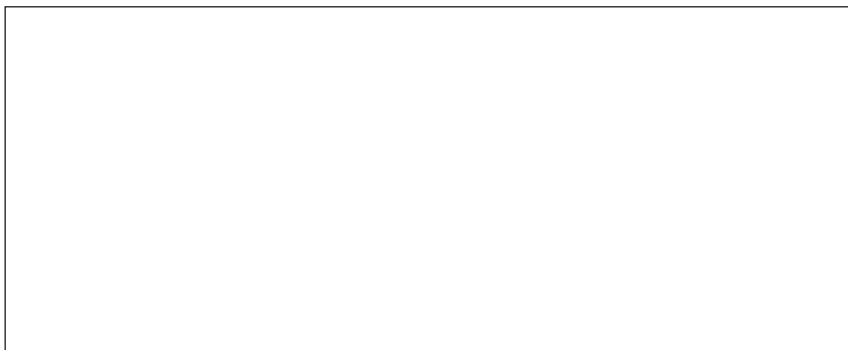
Engineering of Complete Compressor Stations

Local Service Centres

Guaranteed Parts Availability



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