



L07 - L22

Oil Injected Rotary Screw Compressors



Intelligent Air Technology



## L07 - L22 Oil-Injected Rotary Screw Compressors

The prime objective in the development of the L Series oil injected rotary screw compressor 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. L07-L22 compressors provide outputs from 40 to 121 CFM at pressures between 73 and 190 psig, and all models are air-cooled.

Prepacked 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 the 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

TEFC motor reduces power costs and extends motor life.

## 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.

## Extended Warranty

Five and ten year performance warranty programs available.

## Factory-Filled CompAir Long-Life Lubricant

Reduces servicing costs by extending oil change periods up to 12,000 hours.

## Up to 113°F Ambient Capability

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

## Low Noise Levels

Reduced installation costs, improved working environment.

## High Quality Air

Efficient air/oil separation system and optimum aftercooling.

## Receiver Mounted Option

L-Pack receiver mounted option available up to 190 psi.



A small installation footprint simplifies installation while low noise levels allow positioning, without disturbance, near personnel or equipment. All models are designed to pass through a standard doorway for ease of positioning. Available with receiver next to or behind compressor.



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## High Efficiency Motors

L07 - 22 compressors are available with energy saving high efficiency TEFC electric motors. All motors when coupled with the high specific output CompAir compression elements result in highly energy efficient, high performance compressors.



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 good air quality.

## 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 carry over of less than 3 ppm
- Quick oil change via external drain
- Easy access suction filter element
- Custom oil sampling port

## Minimum Space Requirement

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

## Automatic Belt Tensioning System

- Maintenance free
- Minimizes belt slip
- Provides correct belt tension
- Assures 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
- Optimized oil injection

## Drive Motor

- High efficiency TEFC 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, oil sample part, 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:



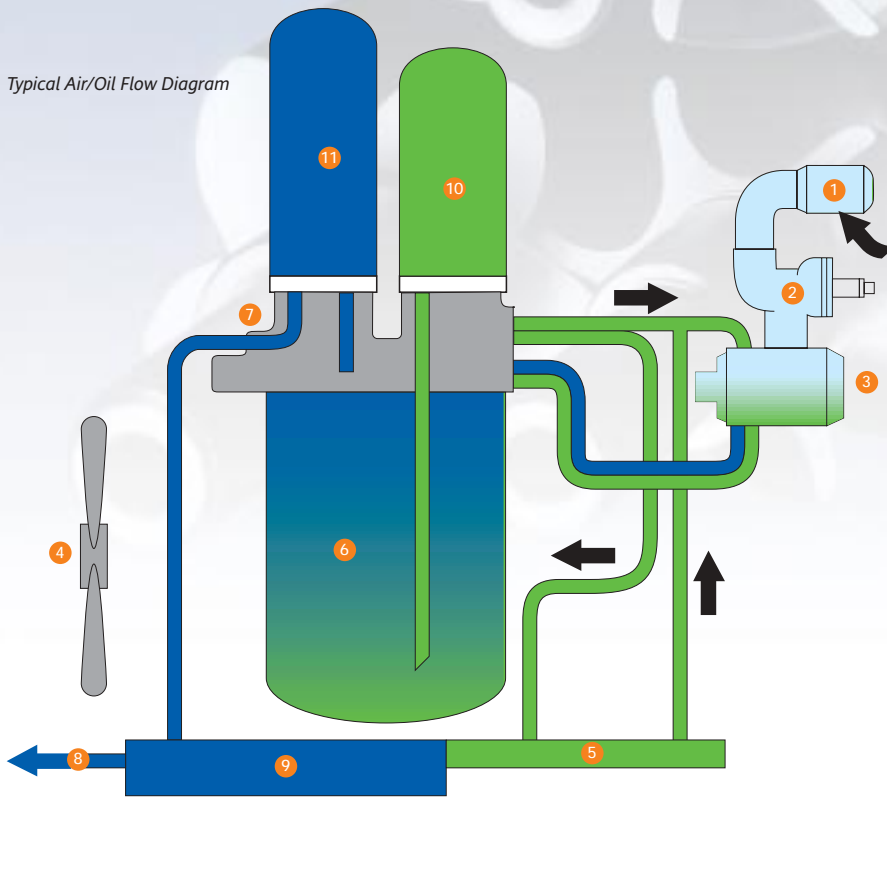
Integrated Control Panel

- Discharge pressure display
- Air/oil temperature display
- Hours run display
- Service due indication
- Fault indication
- Remote start/stop
- Remote load/unload
- 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



- Oil
- Inlet Air
- Compressed Air

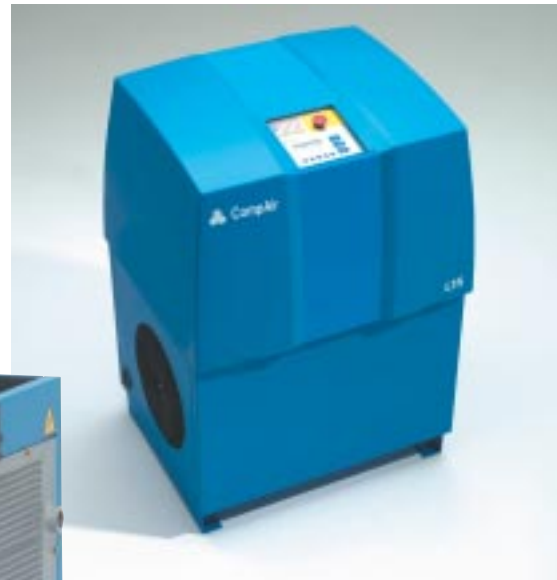
## Technical Specifications

Model Number	Drive Motor HP	Free Air Delivered (CFM)				Dimensions (inches)			Noise Level dB(A)	Weight lbs
		100 psig	125 psig	150 psig	190 psig	Length	Width	Height		
L07	10	40	35	31	27	27.25	23.25	39.50	72	443
L11	15	56	53	48	42	27.25	23.25	39.50	72	478
L-Pack						59.50	28.50	59.50	72	700*
L15	20	82	76	67	57	32.38	27.38	51.56	69	723
L18	25	105	96	85	75	32.38	27.38	51.56	70	745
L22	30	121	111	97	88	32.38	27.38	51.56	70	778
L-Pack						71	34	56	70	1,100*

\*Average package weights vary with model chosen.

Minimum working pressure: 73 psig. Performance data according to Pneurop Cagi/PN 2 CPTC 2. Air-Cooled with TEFC motor.

L-Pack L07-L11 60 gallon receiver standard, 80 gallon available; L15-L22 120 gallon receiver.



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

## LSR Compressors

LSR compressors compliment the standard L Series range and utilize 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

35 - 1520 cfm  
1 - 330 hp

## Lubricated

Rotary Vane  
Single Stage Screw  
Speed Regulated Screw

Piston

Portable

## Oil-Free

Two Stage Screw  
Water-Sealed Screw

Piston

Portable

## Complete Accessories Program

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 Centers

Guaranteed Parts Availability



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