



# Rotary Screw Compressors

## 55-90 kW



# LB55 - LB90

## Fixed Speed Rotary Screw Compressors

### The New Generation

Industries across the globe rely on CompAir rotary screw compressors for the supply of high quality compressed air. The CompAir LB Series air compressor range incorporates the best of CompAir technology, design and quality. To deliver reliable, economical and efficient performance in a completely new package.

The LB Series delivers high quality air at volumes of 9.5 to 26.5 m<sup>3</sup>/min at a pressure range between 7 and 10 bar and is available in either air or water cooled versions.

### High Efficiency Air End

LB Series 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.

CompAir's commitment to quality ensures LB Series compressors offer the highest levels of reliability and performance with low operating costs throughout the compressor's life.

### Maximum Durability

We maximise service life and durability by eliminating elastomer and thermoplastic pipe and tube in system pressure lines. Replacing them with corrosion resistant stainless steel tubing and passivated zinc coated carbon steel piping. For ease of maintenance we complete the connection with viton sealed grooved couplings and self sealing high pressure compression fittings.

### Belt Free Drive

With direct or gear drive coupling, the belt free drive LB Series compressor range not only reduces transmission losses, it improves efficiency and reduces noise. Most importantly, it delivers greater reliability and reduced maintenance costs.





## Energy Efficient Motor

High efficiency TEFC IE2 electric motors are fitted as standard to the entire LB Series screw compressor range. Reducing not only your power consumption but also reducing your CO<sub>2</sub> emissions.

## Intelligent Control

Precise operational control is essential to reduce running costs. LB Series rotary screw compressors are supplied with intelligent, fully electronic controllers with efficient monitoring and user-friendly touch screen panel. Ensuring compressor performance is always optimised to meet your system demand.

## Designed for serviceability

Maintenance personnel love the LB series compressor range. Service access is quick and easy with all doors able to be removed in seconds. We've also made sure serviceable components including filters are easily accessible and no piping needs to be disconnected to service the separator.

## High Performance Separator

The LB Series compressor separation system has twice the surface area of conventional separators. Offering superior separation & enhancing service life. The separation system produces less than two parts per million oil carry-over, with lower pressure loss than competitive separation designs.

## Heavy Duty Inlet Filter

Dirt and dust that enter the compressor can adversely impact lubricant and machine life. An inlet filter with an efficiency rating of 99% is standard equipment on the LB Series compressor range.

# Delcos BD Controller

The DELCOS control system ensures reliable operation and protects your investment by continuously monitoring the operational parameters, which is essential to reducing your running costs.

The Delcos BD controller also has the capability to have programmable inputs and outputs, control additional equipment as well as providing the following features with a clear readable text.



- Smart energy cost calculation
- Clear text indicator display
- Multiple languages
- ARM CORTEX M3 Microprocessor Controller
- Pressure, Temperature ,Runtime display
- High temperature, High pressure, Reverse-phase protection function
- Filter and oil change reminder

- Low 24 VDC control voltage.
- Intelligent protection in extreme environments
- Safe operation protection
- Multiple pressure/temperature input points
- Integrated sequence control (up to 8 compressors)
- RS-232 series communications for local monitoring
- Optional RS-485 Ethernet communications for remote monitoring via Airbus485™ or Modbus RTU

## Technical Specifications

| Model | Motor Rating (kW) | Free Air Delivered m <sup>3</sup> /min* |         |          | Dimensions (L x W x H) (mm) | Noise Level db (A)** | Weight (kg) |
|-------|-------------------|---|---------|----------|-----------------------------|----------------------|-------------|
|       |                   | 7 bar g                                 | 8 bar g | 10 bar g |                             |                      |             |
| LB55  | 55                | 10.7                                    | 10.5    | 9.5      | 2104 x 1300 x 1580          | 72                   | 1400        |
| LB75  | 75                | 13.8                                    | 12.5    | 10.6     | 2104 x 1300 x 1580          | 74                   | 1450        |
| LB90  | 90                | 15.3                                    | 14.9    | 13.8     | 2104 x 1300 x 1580          | 75                   | 1500        |

\*Measured and stated in accordance with ISO 1217 Annex C at the following conditions: Air Intake Pressure - 1 bar a (14.5 psi.a), Air Intake Temperature - 20°C (68°F), Humidity - 0% (dry), Cooling Water Inlet Temperature - 20°C (68°F), \*\*+\_3 dB(A).

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.

