

10-30 HP FIXED SPEED ROTARY SCREW COMPRESSORS

## L-Series

### Advanced Technology. Inspired Simplicity.

L-Series compressors from Champion feature more than just the latest compressor technology. They contain the cleanest, simplest, most intuitive machine layouts on the market. Equipped with standard TEFC main motors, wye-delta starters, Pilot™ microprocessor controllers and quiet enclosures, an L-Series unit from Champion is the optimal solution when a feature-rich, simple-to-operate compressor is required.

### First Class Serviceability

The L-Series units set a new standard in serviceability. By utilizing integrated airend design techniques, Champion delivers unprecedented access to service items such as; a high efficiency air filter, air/oil separator and oil filter. At the same time, the compact design eliminates unneeded connections and minimizes piping; reducing the opportunity for leaks. Couple these features with standard automatic belt tensioning and you have a world class small horsepower compressor package.

### Configuration Flexibility

L-Series compressors are available in base mount or AirStation™ configurations. The plug-and-play AirStation™ configuration is an L-Series compressor mounted on a horizontal receiver tank with or without a refrigerated air dryer. Featuring standard high-end and optional components such as a three-way bypass valve, stainless steel piping, integrated fork lift slots and an automatic tank drain, the L-Series AirStation™ is the ideal solution for a compressed air system that requires minimal installation time and cost.



## L07-L22 ROTARY SCREW COMPRESSOR

| MODEL | DRIVE MOTOR |    | 50 Hz            |      |                  |                     | 60 Hz            |      |                  |                     | NOISE LEVEL <sup>2</sup> |     | WEIGHT |                                    | DIMENSIONS<br>L x W x H<br>IN. (MM) |
|-------|-------------|----|------------------|------|------------------|---------------------|------------------|------|------------------|---------------------|--------------------------|-----|--------|------------------------------------|-------------------------------------|
|       | HP          | KW | NOMINAL PRESSURE |      | FAD <sup>1</sup> |                     | NOMINAL PRESSURE |      | FAD <sup>1</sup> |                     | DB(A)                    | LBS | KG     |                                    |                                     |
|       |             |    | PSIG             | BAR  | ACFM             | M <sup>3</sup> /MIN | PSIG             | BAR  | ACFM             | M <sup>3</sup> /MIN |                          |     |        |                                    |                                     |
| L07   | 10          | 7  | 110              | 7.5  | 45.9             | 1.30                | 100              | 6.9  | 44.5             | 1.26                | 71                       | 452 | 205    | 27 x 25 x 41<br>(686 x 635 x 1041) |                                     |
|       |             |    | 145              | 10.0 | 37.4             | 1.06                | 125              | 8.6  | 38.7             | 1.10                |                          |     |        |                                    |                                     |
|       |             |    | 190              | 13.0 | 30.0             | 0.85                | 190              | 13.0 | 26.4             | 0.75                |                          |     |        |                                    |                                     |
| L11   | 15          | 11 | 110              | 7.5  | 66.0             | 1.87                | 100              | 6.9  | 63.1             | 1.79                | 73                       | 483 | 219    |                                    |                                     |
|       |             |    | 145              | 10.0 | 56.8             | 1.61                | 125              | 8.6  | 57.9             | 1.64                |                          |     |        |                                    |                                     |
|       |             |    | 190              | 13.0 | 46.6             | 1.32                | 190              | 13.0 | 44.1             | 1.25                |                          |     |        |                                    |                                     |
| L15   | 20          | 15 | 110              | 7.5  | 95.3             | 2.70                | 100              | 6.9  | 89.4             | 2.53                | 74                       | 739 | 335    |                                    |                                     |
|       |             |    | 145              | 10.0 | 79.8             | 2.26                | 125              | 8.6  | 83.4             | 2.36                |                          |     |        |                                    |                                     |
|       |             |    | 190              | 13.0 | 63.5             | 1.80                | 190              | 13.0 | 63.1             | 1.79                |                          |     |        |                                    |                                     |
| L18   | 25          | 18 | 110              | 7.5  | 114.7            | 3.25                | 100              | 6.9  | 110.9            | 3.14                | 74                       | 796 | 361    | 31 x 28 x 47<br>(787 x 711 x 1194) |                                     |
|       |             |    | 145              | 10.0 | 96.7             | 2.74                | 125              | 8.6  | 101.9            | 2.89                |                          |     |        |                                    |                                     |
|       |             |    | 190              | 13.0 | 82.6             | 2.34                | 190              | 13.0 | 80.2             | 2.27                |                          |     |        |                                    |                                     |
| L22   | 30          | 22 | 110              | 7.5  | 128.8            | 3.65                | 100              | 6.9  | 125.8            | 3.56                |                          | 810 | 367    |                                    |                                     |
|       |             |    | 145              | 10.0 | 113.3            | 3.21                | 125              | 8.6  | 116.5            | 3.30                |                          |     |        |                                    |                                     |
|       |             |    | 190              | 13.0 | 92.1             | 2.61                | 190              | 13.0 | 92.0             | 2.61                |                          |     |        |                                    |                                     |

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

## AIR STATION SPECIFICATIONS, 60 HZ

| MODEL | DRYER MODEL                 | RECEIVER SIZE GAL. (LITERS)     | REFRIG-ERANT | WEIGHT LBS (KG)   |   | DIMENSIONS L x W x H IN. (MM)  |  |
|-------|-----------------------------|---------------------------------|--------------|---|---|--|--|
|       |                             |                                 |              | 120 GAL   | 240 GAL   | 120 GAL  | 240 GAL  |
| L07   | CRN50<br>GSRN50             | 80, 120, 240<br>(303, 454, 908) | R134A        | Less Dryer 953 (433)<br>With GSRN Dryer 1079 (489)<br>With CRN Dryer 1048 (476)                               | Less Dryer 1305 (592)<br>With GSRN Dryer 1431 (649)<br>With CRN Dryer 1400 (636)                              | Less Dryer 73 x 32 x 68<br>(1859 x 819 x 1722)<br>With Dryer 71 x 32 x 68<br>(1803 x 819 x 1722) | Less Dryer 73 x 32 x 68<br>(1854 x 813 x 1727)<br>With Dryer 72 x 32 x 68<br>(1829 x 813 x 1727) |
| L11   | CRN75<br>GSRN75             |                                 |              | Less Dryer 984 (447)<br>With GSRN Dryer 1128 (512)<br>With CRN Dryer 1090 (495)                               | Less Dryer 1336 (607)<br>With GSRN Dryer 1480 (671)<br>With CRN Dryer 1442 (655)                              |  |  |
| L15   | GSRN100<br>CRN100<br>CRE90  | 120, 240<br>(454, 908)          |              | Less Dryer 1240 (563)<br>With GSRN Dryer 1506 (683)<br>With CRN Dryer 1511 (685)<br>With CRE Dryer 1501 (681) | Less Dryer 1592 (722)<br>With GSRN Dryer 1858 (843)<br>With CRN Dryer 1863 (845)<br>With CRE Dryer 1853 (841) |  |  |
| L18   | GSRN125<br>CRN125<br>CRE120 |                                 |              | Less Dryer 1297 (589)<br>With GSRN Dryer 1574 (714)<br>With CRN Dryer 1590 (721)<br>With CRE Dryer 1575 (714) | Less Dryer 1649 (748)<br>With GSRN Dryer 1926 (874)<br>With CRN Dryer 1942 (881)<br>With CRE Dryer 1927 (874) | Less Dryer 72 x 32 x 72<br>(1838 x 819 x 1838)<br>With Dryer 72 x 32 x 72<br>(1816 x 819 x 1838) | Less Dryer 90 x 37 x 78<br>(2276 x 940 x 1991)<br>With Dryer 89 x 37 x 78<br>(2253 x 940 x 1991) |
| L22   | GSRN150<br>CRN150<br>CRE140 |                                 |              | Less Dryer 1311 (595)<br>With GSRN Dryer 1598 (725)<br>With CRN Dryer 1611 (730)<br>With CRE Dryer 1595 (723) | Less Dryer 1663 (755)<br>With GSRN Dryer 1950 (885)<br>With CRN Dryer 1963 (891)<br>With CRE Dryer 1947 (883) |  |  |

Dryer on AirStation™ package has separate electrical connection and voltage.

## L-Series Features (10-30 HP)

- Belt drive, oil flooded, single stage rotary screw air compressor
- RotorLube 4000 lubricant
- Air-cooled only
- Optional automatic zero-loss condensate drain (with receiver tank selection)
- CRN and ASME rated aftercooler
- Pilot™ microprocessor controller
- Integrated spin-on oil filter, spin-on air/oil separator and two-stage air filter
- Integrated thermostatic thermal mixing valve
- IP54 electrical enclosure
- Load/no load control and timed shutdown
- Moisture separator (shipped loose)
- Mounted and wired wye-delta starter
- Optional ASME receiver tank (80, 120, 240 gallons)
- Optional mounted cycling or non-cycling refrigerated dryer (with receiver tank selection)
- Optional cold coalescing filter (with mounted CRN & CRE dryer)
- Quiet enclosure
- TEFC main motor
- Optional three-way bypass valve (with receiver tank and mounted dryer)
- Second pressure band control for lead/lag operation
- Stainless steel piping (with receiver tank and mounted dryer)
- UL labeled electronics (including C-UL-US open industrial control panel)
- Voltage: 200-230/460V (Tri-Volt) 200/230/380/460/575V (Dedicated)
- Standard manual tank drain (with receiver tank)

# CHAMPION®



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