

5-7.5 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, full voltage 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 a service-friendly package design, 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 high-end components such as the robust refrigerated dryer, stainless steel piping, integrated fork lift slots, the L-Series AirStation™ is the ideal solution for a compressed air system that requires minimal installation time and cost.



L04-L05 ROTARY SCREW COMPRESSOR, 60 HZ

| MODEL | DRIVE MOTOR | | NOMINAL PRESSURE | | FAD ¹ | | NOISE LEVEL ² DB(A) | WEIGHT | | DIMENSIONS L x W x H IN. (MM) |
|-------|-------------|----|------------------|------|------------------|---------------------|-----------------------------------|--------|-----|-------------------------------------|
| | HP | KW | PSIG | BAR | ACFM | M ³ /MIN | | LBS | KG | |
| L04 | 5 | 4 | 100 | 6.9 | 19.4 | 0.55 | 68 | 373 | 169 | 27 x 25 x 41 (686 x 635 x 1041) |
| | | | 125 | 8.6 | 18.2 | 0.52 | | | | |
| | | | 190 | 13.0 | 12.9 | 0.36 | | | | |
| L05 | 7.5 | 5 | 100 | 6.9 | 28.4 | 0.8 | | | | |
| | | | 125 | 8.6 | 24.9 | 0.71 | | | | |
| | | | 190 | 13.0 | 18.3 | 0.52 | | | | |

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) | | |
|-------|-----------------|-------------------------------|--------------|------------------------------|------------------------------|-------------------------------|---|---|---|
| | | | | 80 GAL | 120 GAL | 240 GAL | 80 GAL | 120 GAL | 240 GAL |
| L04 | GSRN25 CRN25 | 80, 120, 240 (303, 454) | R134A | Less Dryer 791 (359) | Less Dryer 874 (397) | Less Dryer 1226 (557) | Less Dryer 52 x 32 x 68 (1321 x 813 x 1727) | Less Dryer 73 x 32 x 68 (1854 x 813 x 1727) | Less Dryer 90 x 37 x 74 (2285 x 940 x 1875) |
| | | | | With GSRN Dryer 905 (410) | With GSRN Dryer 988 (448) | With GSRN Dryer 1340 (608) | | | |
| L05 | GSRN40 CRN35 | | | With CRN Dryer 877 (398) | With CRN Dryer 960 (436) | With CRN Dryer 1312 (596) | With Dryer 63 x 32 x 68 (1600 x 813 x 1727) | With Dryer 72 x 32 x 68 (1829 x 813 x 1727) | With Dryer 88 x 37 x 74 (2233 x 940 x 1875) |
| | | | | Less Dryer 791 (359) | Less Dryer 874 (397) | Less Dryer 1226 (557) | With GSRN Dryer 905 (410) | With GSRN Dryer 988 (448) | With GSRN Dryer 1340 (608) |

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

L-Series Features (5-7.5 HP)

- Belt drive, oil flooded, single stage rotary screw air compressor
- RotorLub 4000 lubricant
- Air-cooled only
- Standard & optional condensate drains (with receiver tank selection)
- CRN and ASME rated aftercooler
- CSA labeled and approved electrical controls and wiring
- cUL labeled electronics (including C-UL-US open industrial control panel)
- Pilot microprocessor controller
- 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 non-cycling refrigerated dryer (with receiver tank selection)
- Optional cold coalescing filter (with mounted CRN dryer)
- Optional three-way bypass valve (with receiver tank and mounted dryer)
- Quiet enclosure
- Spin-on oil filter and air/oil separator
- Second pressure band control for lead/lag operation
- Stainless steel piping (with receiver tank and mounted dryer)
- TEFC main motor
- Two-stage air filter
- Voltage: 230V (single phase), 208 / 230 / 380 / 460 / 575V (3 phase)

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

CHAMPION®

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