

2-30 HP | RECIPROCATING AIR COMPRESSORS

## R-Series





# Customized Solutions Unparalleled Performance

#### A Winning Combination

Champion compressors are proven units, known for their reliability over decades of use. We know our products and understand how they operate in many different operating environments. No matter the application, Champion gets the job done.

#### The Solution to Your Application

Champion R-Series Compressors have a time-tested, proven design. Rugged standard features, a wide selection of configurations, and quality available options make the R-Series compressors the solution to your application. Delivering high performance, long life and tremendous value—Champion compressors are the proven choice!



#### Units Shown with Optional Accessories

- Air-Cooled Aftercooler
- Electric Tank Drain
- Hour Meter

- Test/Off/Auto Switch
- High Temp Switch
- Dual Control

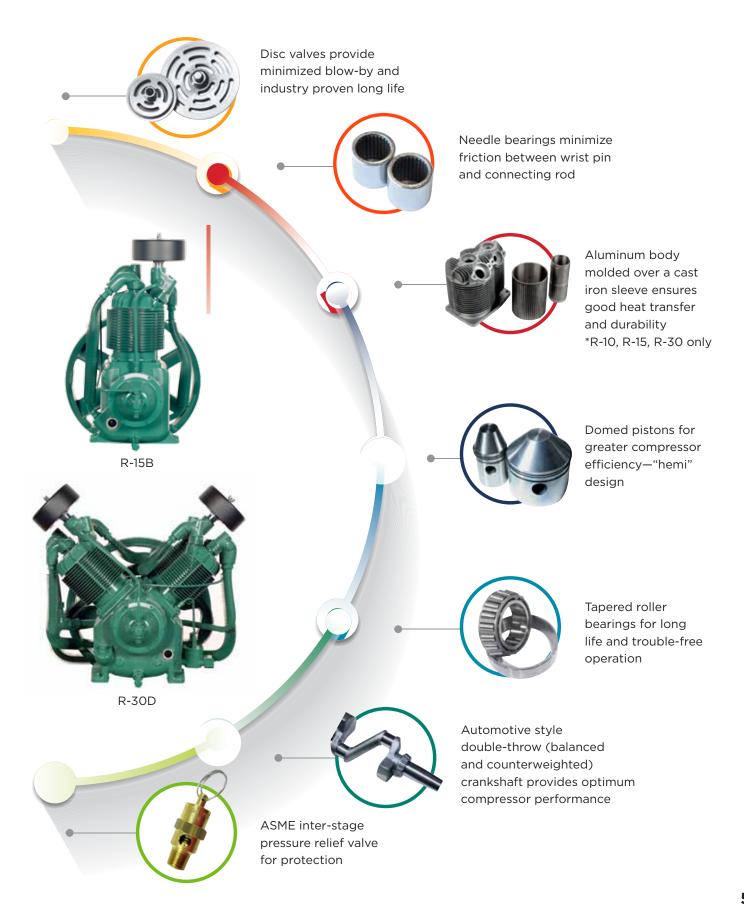
## Design Advantage

- Multi-Finned Cylinders for Cooler Operating Temperatures
- Integral Cylinder/Head Design for Trouble-Free Operation
- Domed Pistons
- High Efficient Lap Joint Piston Rings with Bi-Directional Seal
- Automotive Style, Two-Piece Connecting Rods
- Pressure Relief Valves

- Large Diameter Finned Intercoolers
- Optimized Cooling Fan/Flywheel
- Reliable High-Flow Disc Valves
- Tapered Roller Main Bearings
- Balanced Crankshaft
- Large Capacity Cast-Iron Crankcase
- Centrifugal Unloader for Minimized Starting Power & Completely Load-Less Starting



### It's All in the Details



## A Complete

## **RANGE**



* Х Ц	<b>4.2-8.2</b> CFM @ 175 PSI	<b>17.3-23.1</b> CFM @ 175 PSI	<b>25.8-49.0</b> CFM @ 175 PSI	<b>53.7</b> CFM @ 175 PSI	<b>76.7-101.0</b> CFM @ 175 PSI
SIMPL	<b>475-802</b> RPM	<b>710-990</b> RPM	<b>575-1045</b> RPM	<b>770</b> RPM	655-890 RPM

<sup>\*</sup>Double CFM values for Duplex Units.



## **Customized** to Fit Your Application

With multiple unit configurations, tank sizes and variations—along with available options and accessories, Champion R-Series are built specifically to satisfy your demanding application.







HORIZONTAL



VERTICAL



DUPLEX



ENGINE DRIVEN



BARE COMPRESSOR PUMP

#### Standard Features

- Load-less starting (via centrifugal unloader) for lower energy costs and less wear on drive motor
- ASME inter-stage pressure relief valve for protection
- ODP NEMA 1760 RPM electric motor
- 10 Micron industrial grade intake filter
- ASME coded receiver
- 0-300 PSIG air pressure gauge on tank
- Available voltages
  - Single phase—115/208-230
  - Three phase-208/230/460/575

#### **Available Options**

- Multiple tank sizes and variations
- Electric or engine driven
- NEMA 4 full-voltage starter upgrade
- TEFC motor upgrades
- Control panel upgrades
- Air-Cooled Aftercooler
- Low oil-level monitor (NEMA 1/4)
- Dual control
- Vibration isolators

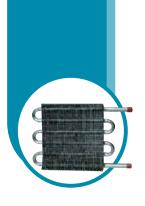
- Food grade lubricant
- High temperature switch (NEMA 1 or 4)
- Available switches (NEMA 1 or 4)
  - Test/Off/Auto
  - Hand/Off/Auto
  - Off/On
- Automatic tank drain
  - Pneumatic
  - Electric

Features and options vary between product configurations as items that may be available on a duplex that are not available for a simplex.



Control Panel (Duplex units utilize two magnetic starters and alternator)

Provides thermal overload protection, and transformer (simplex only) provides reliable low voltage output to the auxiliary components. May be mounted or unmounted.



#### Air-Cooled Aftercooler

The factory mounted, heavy duty, air-cooled aftercooler effectively reduces up to 65% of the moisture from discharged compressed air.



#### Automatic Tank Drain

A pneumatic or adjustable electric timed drain automatically discharges moisture from receiver.



#### Vibration Isolators

Isolates the compressor unit from the foundation or floor. Reduces noise and protects the unit from vibrations that could cause damage.

## Complete Your Package with Quality Accessories

Many options are available to help you develop a Champion compressor package that exactly matches your specific operating requirements.

#### Other Options

- Dual control will allow the compressor to run either in start/stop or constant speed mode
- NEMA 4 rated parts available
- Alternate voltages and TEFC electric motors

#### Low Oil-Level Monitor

Low oil-level monitor shuts down the unit when oil levels are below an adequate level. Prevents the unit from restarting if oil levels are not at an adequate level.



Cools compressed air to a 33-39° dew point, eliminating additional downstream condensation in the air line. Normally, a dryer should be used in conjunction with an aftercooler. Other refrigerated and desiccant dryer types are available.



ChampLub lubricants are blended specifically for Champion compressors for use in harsh compressor environments. They are sourced from extremely stable base stocks and enhanced with carefully selected additive packages to provide long life and superior protection. ChampLub lubricants are suitable for a variety of applications and are available as a mineral, synthetic or food-grade, and come in 55-gallon drums, five-gallon pails, one-gallon bottles and one-quart bottles.

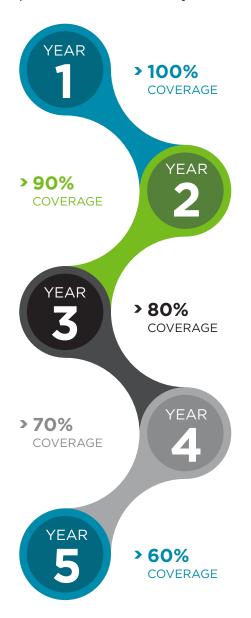






### Convenience & Peace of Mind

The five-year standard warranty covers parts and labor and is prorated over the five years.



The Champion philosophy ensures long-lasting, reliable equipment. Our Warranty program demonstrates our confidence in our products:

Each new Champion assembled unit has a five-year warranty on the compressor pump against defects in materials or workmanship under normal use and service, from the date of installation or sixtysix months from the date of shipment by Champion or a Champion Distributor, whichever may occur first.

Head valves are warranted for one year only. Champion excludes warranty on components and/or accessories furnished to Champion by third parties; such as electric motors, gasoline engines and controls. These are warranted only to the extent of the original manufacturer's warranty to Champion. Includes a five-year warranty on the air receiver and pump.



## Sales & Service Distributors Across America

#### An Extensive Network

Your sales, service and technical support needs will be handled quickly and easily by our extensive network of Champion factory-trained, authorized local distributors. Maintaining and adequately servicing your compressor has never been easier.

Over 1,100 Champion distributors ready to provide solutions to all your compressed air needs

To find a distributor visit: www.championpneumatic.com



Champion is committed to delivering superior products built with the exceptional standards you expect.



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