

CHAMPION

2-30 HP | RECIPROCATING AIR COMPRESSORS

R-Series





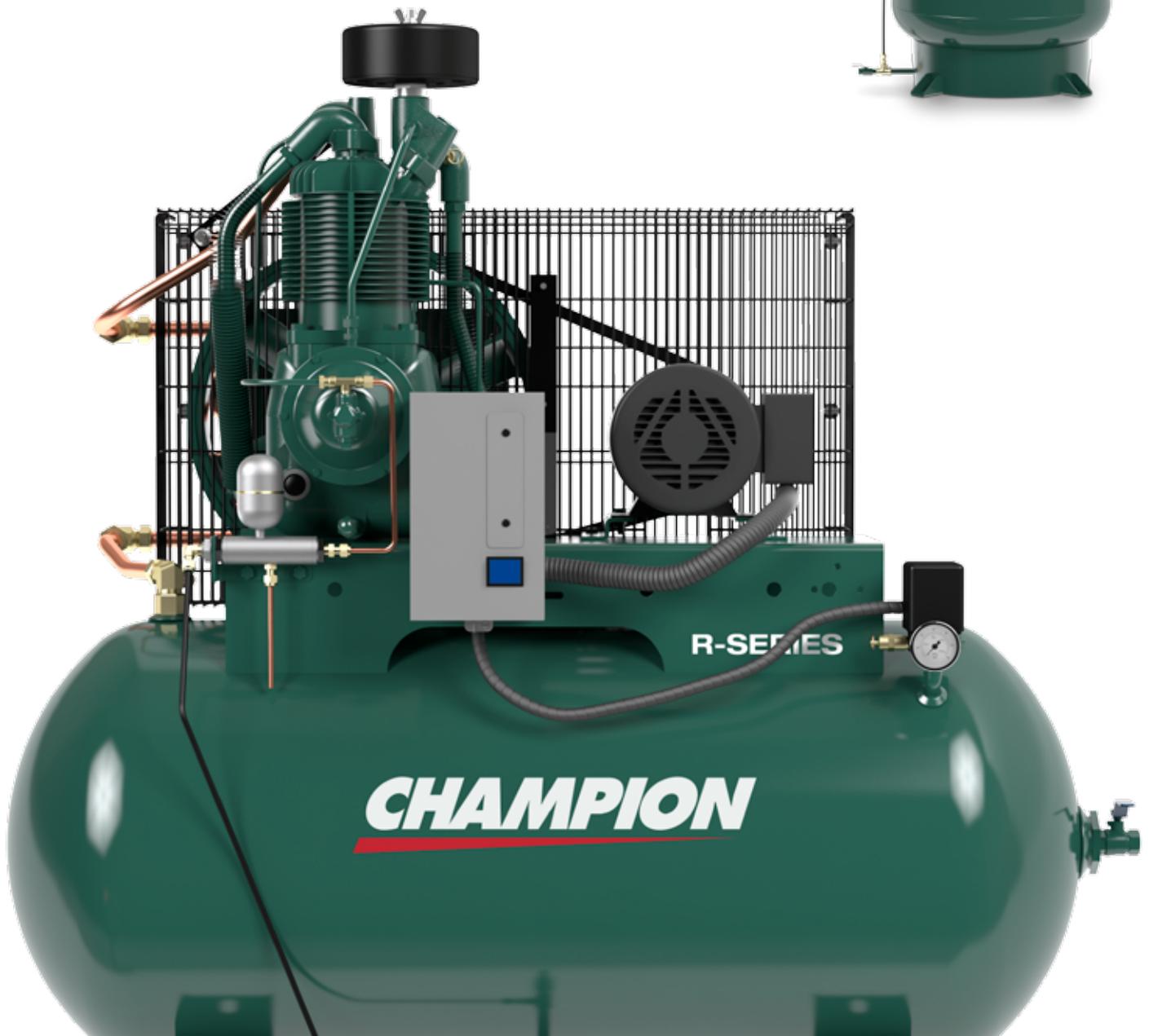
Customized **Solutions** Unparalleled Performance

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!



Design Advantage

- Multi-Finned Cylinders for Cooler Operating Temperatures
- Integral Cylinder/Head Design for Trouble-Free Operation
- Balanced Pistons
- Piston Rings Provide Excellent Oil Control and High Efficiency
- Lightweight, 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



R-70A

It's All in the Details



Disc valves provide minimized blow-by and industry proven long life



Needle bearings minimize friction between wrist pin and connecting rod



Aluminum body molded over a cast iron sleeve ensures good heat transfer and durability
*R-10, R-15, R-30 only



R-15B



R-30D



Domed pistons for greater compressor efficiency—"hemi" design



Tapered roller bearings for long life and trouble-free operation



Automotive style double-throw (balanced and counterweighted) crankshaft provides optimum compressor performance



ASME inter-stage pressure relief valve for protection

A Complete RANGE



SIMPLEX*

4.2-8.2
CFM @ 175 PSI

475-802
RPM

17.3-23.1
CFM @ 175 PSI

710-990
RPM

25.8-49.0
CFM @ 175 PSI

575-1045
RPM

53.7
CFM @ 175 PSI

770
RPM

76.7-101.0
CFM @ 175 PSI

655-890
RPM

*Double CFM values for Duplex Units (Duplex not available in 1.5 HP)



R-40A



R-70A



R-15B



R-30D



R-10D

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.



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
- ODP HE/TEFC/TEFC HE motor upgrades
- Control panel upgrades
- Aftercooler
 - Air-cooled with or without moisture separator
 - Water-cooled with or without moisture separator
- Low oil-level monitor (NEMA 1 or 4)
- Dual control
- Vibration isolators
- Synthetic 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



Magnetic Starter (included as standard on most models)

For thermal overload protection, a starter is required for units 1.5 HP and up. May be mounted or unmounted.



Air-Cooled Or Water-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

Pneumatic drain operates from a centrifugal unloader.



Vibration Isolators

Isolates the compressor unit from the foundation or floor. Reduces noise and protects the unit from any out-of-level floor situation that could cause vibration and 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, ODPHE, TEFCHE electric motors (High efficiency available on 3 phase only)

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.

Refrigerated Air Dryer

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. Refrigerated and desiccant dryer types are available.

Champion Compressor Lubricants

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 oil, synthetic or food-grade synthetic.

Available 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 sixty-six 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.

5 STANDARD
WARRANTY
YEAR

COVERAGE YOU CAN COUNT ON

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.

CHAMPION[®]

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