

***CHAMPION***

2-15 HP | RECIPROCATING AIR COMPRESSORS

# RV-Series





## Distinct Value Ultimate Confidence

### 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.



# Value & Confidence Collide

With Champion, you not only get value, you also get the confidence that comes with owning a solid, reliable compressor. The RV-Series exemplifies quality, reliability, long life and tremendous value. Champion provides the total package—a low cost solution with a broad range of options—saving money and providing peace of mind.



# Design Advantage



- Splash Lubricated Air Compressor Pump
- Two-Stage Design
- 100% Cast Iron Compressor Pump
- Alloy Steel Reed Valves
- Oil Level Sight Glass
- Oil Drain
- Deep Finned Intercooler
- Large, Cast Iron Flywheel
- Industrial Grade Intake Filter and Silencer
- Factory Filled with ChampLub AC Lubricant
- All Pumps are Factory Tested Prior to Shipment



| SIMPLEX | 4.5 CFM @ 175 PSI | 8.2 CFM @ 175 PSI | 16.5 CFM @ 175 PSI | 24.0 CFM @ 175 PSI | 32.0 CFM @ 175 PSI | 46.8 CFM @ 175 PSI |
|---------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
|         | 433 RPM           | 759 RPM           | 715 RPM            | 570 RPM            | 699 RPM            | 1020 RPM           |



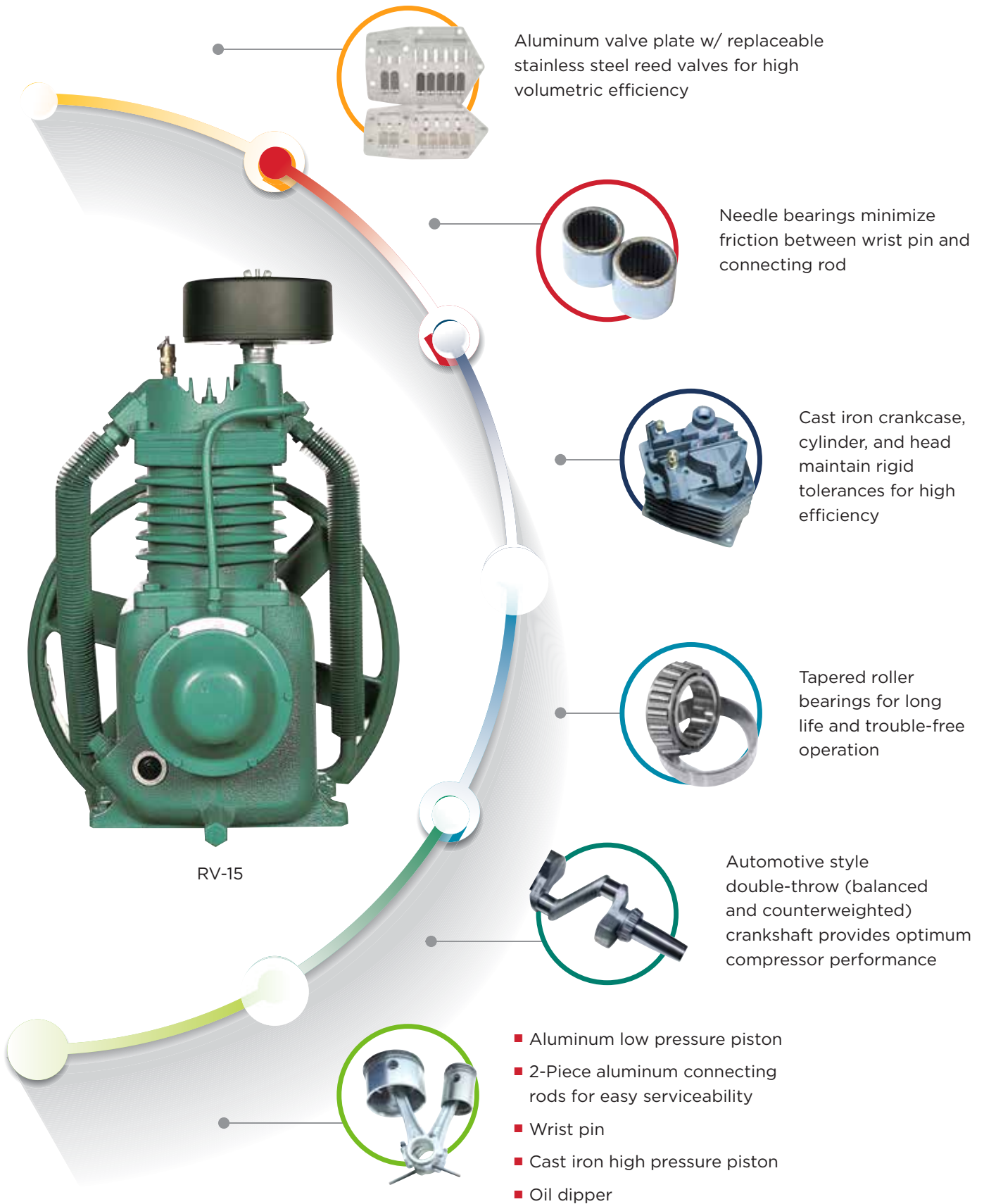
RV-15



RV-30



# It's all in the Details



The image features a central photograph of a green RV-15 compressor. A large, curved, multi-colored callout line (yellow, red, blue, green) originates from the top of the compressor and curves around its right side, ending at the bottom. This line has several circular nodes, each connected by a thin grey line to a detailed inset image of a specific component. The components are: 1) An aluminum valve plate with stainless steel reed valves. 2) Two needle bearings. 3) A cast iron crankcase, cylinder, and head assembly. 4) A tapered roller bearing. 5) An automotive-style double-throw crankshaft. 6) A set of aluminum low pressure and cast iron high pressure pistons with a 2-piece aluminum connecting rod and wrist pin. 7) An oil dipper.

RV-15

Aluminum valve plate w/ replaceable stainless steel reed valves for high volumetric efficiency

Needle bearings minimize friction between wrist pin and connecting rod

Cast iron crankcase, cylinder, and head maintain rigid tolerances for high efficiency

Tapered roller bearings for long life and trouble-free operation

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

- Aluminum low pressure piston
- 2-Piece aluminum connecting rods for easy serviceability
- Wrist pin
- Cast iron high pressure piston
- Oil dipper

# Complete Compressor Packages

## Standard Features

- Automatic Start/Stop Operation
- Magnetic Starter\*
- ASME Coded Receiver
- NEMA Rated Electric Motors
- 0-300 PSIG Air Pressure Gauge on Tank
- Preset Pressure Switch
- Available Voltages
  - Single Phase—208, 230 on 2-7.5 HP (RV-10, RV-15)
  - Three Phase—208, 230, 460, 575 on 7.5 (RV-30), 10 & 15 HP

## Available Options

- Pneumatic Tank Drains
- Vibration Isolators
- Low Oil Level Monitor
- Air-Cooled Aftercoolers

\*Option not available on 5 HP, 3600 RPM model

## 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](http://www.championpneumatic.com)

# Pump Model RV-10A

## RV-SERIES | 2-3 HP RECIPROCATING COMPRESSORS

| MOTOR HP | TANK CAPACITY GAL. | HORIZONTAL PACKAGES |                             |                          | VERTICAL PACKAGES |                             |                          | 125 PSI RATING |           | 175 PSI RATING |           |
|----------|--------------------|---------------------|-----------------------------|--------------------------|-------------------|-----------------------------|--------------------------|----------------|-----------|----------------|-----------|
|          |                    | RV-SERIES MODEL     | DIMENSIONS L x W x H INCHES | APPROX. SHIP WEIGHT LBS. | RV-SERIES MODEL   | DIMENSIONS L x W x H INCHES | APPROX. SHIP WEIGHT LBS. | RPM            | CFM DEL'Y | RPM            | CFM DEL'Y |
| 2        | RV-10              | -                   | -                           | -                        | VRV2-6            | 35.3 x 29 x 75.5            | 499                      | 520            | 5.7       | 433            | 4.5       |
| 3        | RV-10              | -                   | -                           | -                        | VRV3F-6           | 35.3 x 29 x 75.5            | 509                      | 802            | 9.2       | 759            | 8.2       |

# Pump Model RV-15A

## RV-SERIES | 5-7.5 HP RECIPROCATING COMPRESSORS

| MOTOR HP | TANK CAPACITY GAL. | HORIZONTAL PACKAGES |                             |                          | VERTICAL PACKAGES |                             |                          | 125 PSI RATING |           | 175 PSI RATING |           |
|----------|--------------------|---------------------|-----------------------------|--------------------------|-------------------|-----------------------------|--------------------------|----------------|-----------|----------------|-----------|
|          |                    | RV-SERIES MODEL     | DIMENSIONS L x W x H INCHES | APPROX. SHIP WEIGHT LBS. | RV-SERIES MODEL   | DIMENSIONS L x W x H INCHES | APPROX. SHIP WEIGHT LBS. | RPM            | CFM DEL'Y | RPM            | CFM DEL'Y |
| 5        | 80                 | -                   | -                           | -                        | VRV5-8            | 35.3 x 30.9 x 74.8          | 570                      | 759            | 18.1      | 715            | 16.5      |
| 5        | 80                 | -                   | -                           | -                        | VRV5-8*           | 35.3 x 28.6 x 74.8          | 560                      | 684            | 16.3      | 641            | 14.6      |
| 7.5      | 80                 | -                   | -                           | -                        | VRV7F-8           | 35.3 x 30.9 x 74.8          | 630                      | 975            | 22.8      | 975            | 22.1      |
| 7.5      | 80                 | -                   | -                           | -                        | VRV7F-8*          | 35.3 x 30.9 x 74.8          | 630                      | 983            | 23        | 983            | 22.4      |

\* Unit shipped with 3600 RPM motor

# Pump Model RV-30A

## RV-SERIES | 7.5-15 HP RECIPROCATING COMPRESSORS

| MOTOR HP | TANK CAPACITY GAL. | HORIZONTAL PACKAGES |                             |                          | VERTICAL PACKAGES |                             |                          | 125 PSI RATING |           | 175 PSI RATING |           |
|----------|--------------------|---------------------|-----------------------------|--------------------------|-------------------|-----------------------------|--------------------------|----------------|-----------|----------------|-----------|
|          |                    | RV-SERIES MODEL     | DIMENSIONS L x W x H INCHES | APPROX. SHIP WEIGHT LBS. | RV-SERIES MODEL   | DIMENSIONS L x W x H INCHES | APPROX. SHIP WEIGHT LBS. | RPM            | CFM DEL'Y | RPM            | CFM DEL'Y |
| 7.5      | 80                 | -                   | -                           | -                        | VRV7-8            | 40.8 x 31.6 x 74.8          | 710                      | 628            | 29.8      | 570            | 24.0      |
| 7.5      | 80S**              | -                   | -                           | -                        | VRV7-8S           | 40.5 x 33.4 x 62.3          | 753                      | 628            | 29.8      | 570            | 24.0      |
| 7.5      | 120                | HRV7-12             | 71.8 x 30.3 x 53.2          | 882                      | VRV7-12           | 42.1 x 34.5 x 75.2          | 882                      | 628            | 29.8      | 570            | 24.0      |
| 10       | 120                | HRV10-12            | 71.8 x 30.3 x 53.2          | 895                      | VRV10-12          | 42.1 x 34.4 x 75.2          | 895                      | 756            | 36.6      | 699            | 32.0      |
| 15       | 120                | HRV15F-12           | 71.8 x 30.3 x 53.2          | 1017                     | VRV15F-12         | 42.1 x 34.4 x 75.2          | 1017                     | 1020           | 48.1      | 1020           | 46.8      |

\*\*80S is an 80 gallon squat version of a 120 gallon receiver

# Bare Pumps

## RV-SERIES | RECIPROCATING COMPRESSOR

| MODEL  | # OF CYLINDERS | BORE DIA. INCHES | STROKE INCHES | OIL CAPACITY QUARTS | UNIT DIMENSIONS L x W x H INCHES | APPROX. SHIP WEIGHT LBS. | MINIMUM RPM | MAXIMUM RPM |
|--------|----------------|------------------|---------------|---------------------|----------------------------------|--------------------------|-------------|-------------|
| RV-10A | 2              | 4.6 & 2.5        | 2.5           | 2                   | 18.7 x 16.5 x 21.9               | 124                      | 400         | 1050        |
| RV-15A | 2              | 4.6 & 2.5        | 3             | 2                   | 18.7 x 16.5 x 21.9               | 124                      | 400         | 1050        |
| RV-30A | 4              | 4.6 & 2.5        | 3             | 4                   | 19.2 x 23.9 x 21.8               | 233                      | 400         | 1050        |

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

**CHAMPION**<sup>®</sup>

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 Please recycle after use.