

**CHAMPION<sup>®</sup>**

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



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

The image features a central green RV-15 compressor. A curved line with colored circles (orange, red, white, blue, green) connects various callout boxes to specific parts of the compressor. Each callout box contains a detailed view of a component and a descriptive text block. The callouts are: 1. Aluminum valve plate with stainless steel reed valves. 2. Needle bearings. 3. Cast iron crankcase, cylinder, and head. 4. Tapered roller bearings. 5. Automotive style double-throw crankshaft. 6. A list of components: aluminum low pressure piston, 2-piece aluminum connecting rods, wrist pin, cast iron high pressure piston, and 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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