

# Engine Driven

TWO STAGE RECIPROCATING AIR COMPRESSORS  
8-23 HP

- ▶ Service Fleets
- ▶ Automotive
- ▶ Construction
- ▶ Agricultural



Tank Mounted Gas Driven

**CHAMPION®**



Champion is the leader in manufacturing dependable compressed air systems. Champion offers a complete line of engine driven compressor packages from 8-25 horsepower to meet any application.

With an engine driven package there is no need to worry about electrical service. Engine driven air compressors were designed to provide compressed air in remote locations or for emergency production line needs.



Service trucks, contractors, and farmers all need a reliable compressor that will be suitable for the tools they will use.



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





# Design Features

## 1 Engine

Comprehensive engine offering width sizes from 8-25hp.

## 2 Flexible Oil Drain Hose

Clean services without messy oil spills.

## 3 Belt Tensioning System with Engine Slide Base

Provides easy service adjustments to the drive belt. The base plate also provides a sturdy platform to assist in vibration reduction.

## 4 High Mounted Pressure Gauge

Easy to read and reduces the risk of damage.

## 5 Simple Mounting Feet

One piece design for easy mounting.

## 6 Precise Throttle Control

Designed to provide accurate load control and easy starting.

## 7 Industrial Duty Cogged V-Belts

Provides maximum reliability and service life with minimal adjustments.

## 8 Top Plate Design

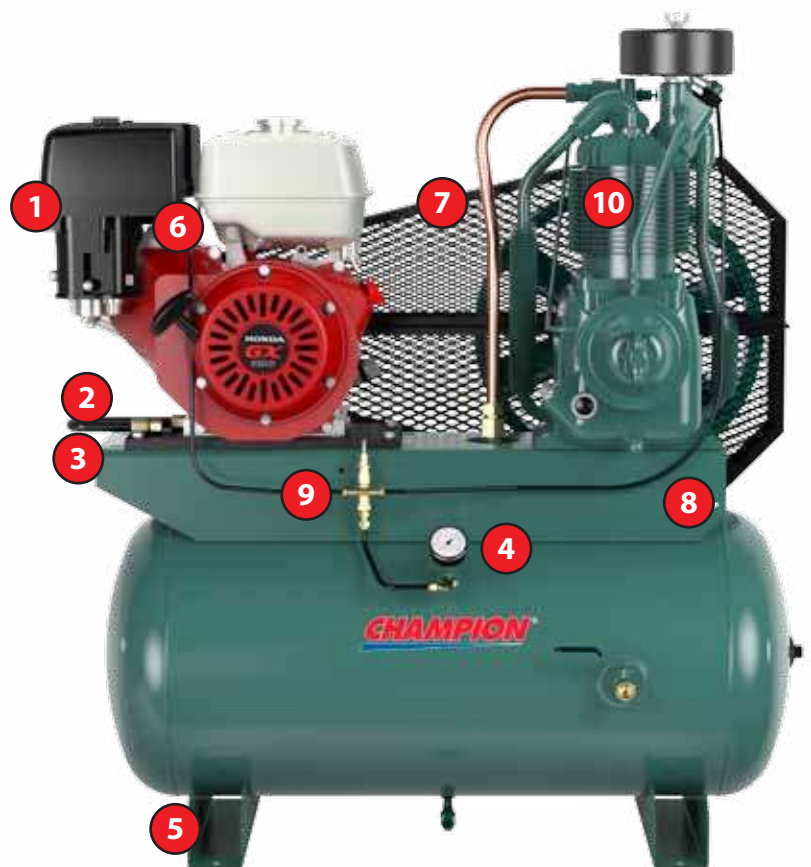
Extra clearance allows an abundant amount of room for hands and tools when servicing.

## 9 Pilot Unloader Valve

No more draining the tank from job site to job site. With a simple flip of the valve, the package can be started with a fully pressurized tank.

## 10 Legendary Compressor Pumps

Utilizes the R & PL Series compressors for the most dependable package in the industry.

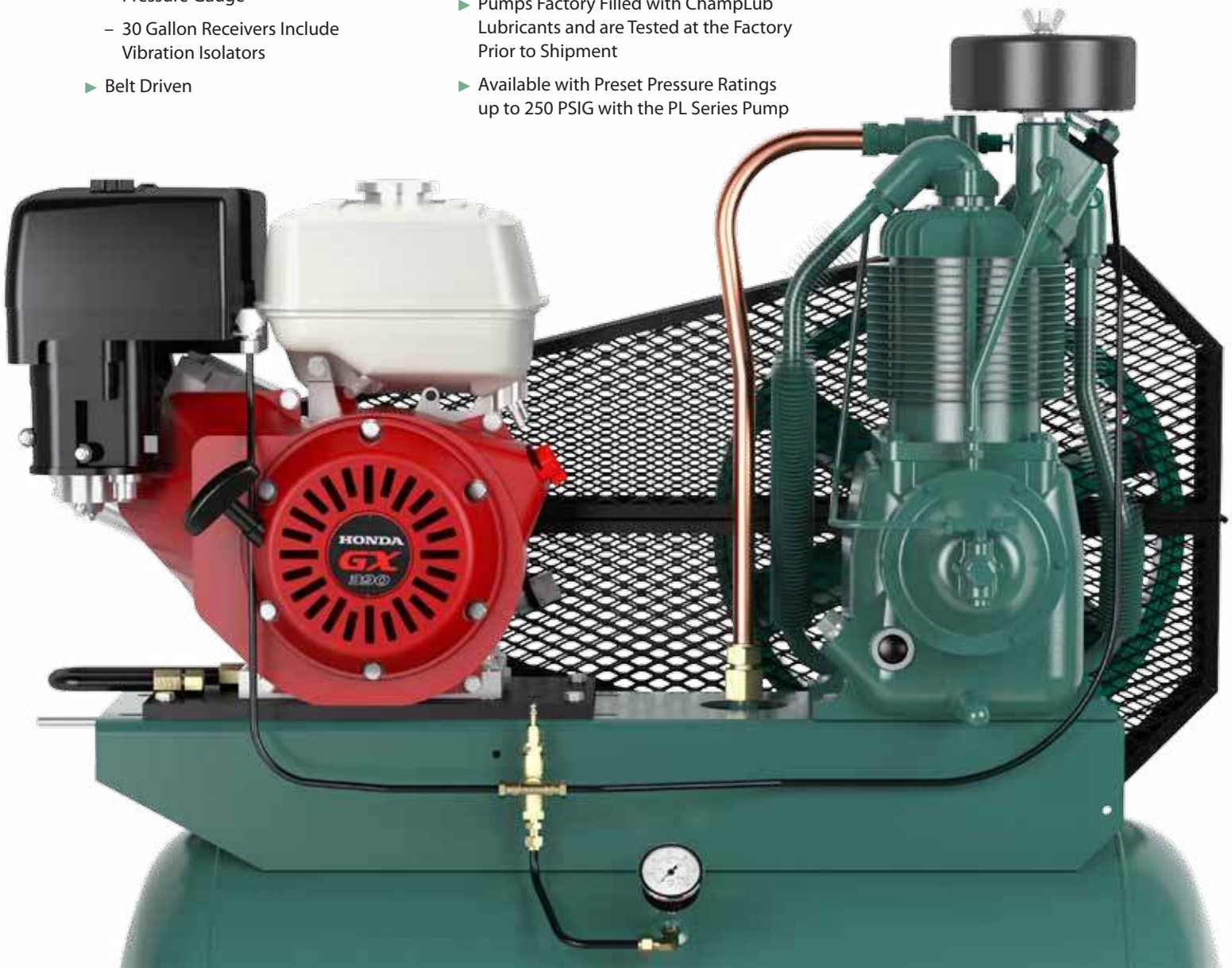


## STANDARD FEATURES

- ▶ Two Stage, Single Acting Compressor Pump
- ▶ Available in Splash or Pressure Lubrication
- ▶ ASME & CRN Certified 30, 60, 80 Gallon Horizontal Air Receivers
  - Manual Receiver Drain Valve
  - Pressure Relief Valve
  - Service Valve
  - Pressure Gauge
  - 30 Gallon Receivers Include Vibration Isolators
- ▶ Belt Driven
- ▶ Totally Enclosed Belt Guard
- ▶ Oil Level Sight Glass
- ▶ Reliable, High Flow Disc Valves
- ▶ Intercooler for Cooling Between Stages
- ▶ Precision Balanced Flywheel for Optimum Compressor Cooling
- ▶ Gasketless Designed Integral Cylinder/Head
- ▶ 5 Year Compressor Pump Warranty
- ▶ Pumps Factory Filled with ChampLub Lubricants and are Tested at the Factory Prior to Shipment
- ▶ Available with Preset Pressure Ratings up to 250 PSIG with the PL Series Pump

## OPTIONS

- ▶ Heavy Duty Vibration Isolators for 30 Gallon Receiver
- ▶ Electric Fuel Pump
- ▶ Regulator and Line Oiler
- ▶ Canvas Cover





# Pressure-Lubricated PL-Series



## *Two Stage* RECIPROCATING AIR COMPRESSORS

The PL-Series compressor has been designed to operate in extreme duty applications. Because the PL-Series can operate up to 250 psi, and run in off-level operations, it is a true industrial use compressor. Champion is so confident in the way it has engineered and built its products, a 5-year warranty on the compressor pump is standard. The PL-Series features domed pistons, integral cylinder head, disc valves and an oil pump that provides lubricant to all crucial parts of the compressor. From its extra heavy duty design to its ease of maintenance, the Champion PL-Series exemplifies reliability, durability and quality.

### Pressure lubrication

Crankshaft and connecting rod bearings are pressure lubricated for extended life.

### Oil pressure gauge

Mounted on the front of the compressor for an excellent view and easy pressure monitoring.

### Babbitt bearings

Replaceable bearing makes repairs easy and inexpensive.

### Lubricant filtration

An external spin on oil filter and an internal oil inlet screen protect internal components from damaging debris.

### Positive displacement oil pump

Provides lubricant to all critical areas of the compressor pump that require lubrication.

### Loadless starting

Hydraulic unloader with-factory set pilot valve provides easy, loadless starts and low oil pressure protection for unattended operation.



PL-15A



PL-30A



PL-40A

# Splash-Lubricated R-Series

Loaded with rugged features, the R-Series splash-lubricated compressors deliver high performance, long life and tremendous value.



**R-15B**

## Multi-finned cylinders

Cooler operating temperatures result in longer life and consistent performance over time.

## Integral cylinder/head

Gasketless design eliminates the possibility of blown head gaskets for trouble-free operation.

## Balanced pistons

Aluminum alloy first-stage piston is weight-matched to the cast iron second-stage piston, ensuring proper balance.

## Piston rings

Two compression rings and one oil control ring provide excellent oil control, and high efficiency air delivery.

## Lightweight connecting rods

High-density, die-cast aluminum alloy rods minimize reciprocating weight. An integral, precision-bored crankpin bearing and a needle bearing for the piston pin properly distribute bearing loads for longer bearing life than bushings.

## Pressure relief valves

Located in interstage and discharge.

## Intercoolers

Large-diameter finned tubing is positioned to obtain the greatest cooling effect between stages for maximum compressor efficiency.

## Optimized cooling fan/flywheel

Precision balanced flywheel has fan blades for optimum compressor cooling and life.

## Reliable, high-flow valves

Single-unit, disc-type valves provide low lift and long life. Discs are made of corrosion resistant Swedish steel. Valves are easily serviced by removing the manifolds only.

## Oversized main bearings

Tapered roller-type main bearings provide full contact and support of the crankshaft plus delivers the longest possible life.

## Balanced crankshaft

Constructed of rugged ductile iron with large diameter throws for minimum bearing loads and counterweights to minimize vibration.

## Large capacity crankcase

Rugged cast iron oil reservoir has convenient sight gauge glass, corner oil fill boss and large oil drain.

## Loadless starting

Positive acting, governor-type centrifugal unloader assures longer motor life by allowing the compressor to start unloaded every time.



**R-30D**



**R-40A**



ENGINE DRIVEN  
*Gasoline*

| GAS      |               |                 |            |                  |            | NEW CAERSB Model Dimensions |      |      | Approx. Weight lbs. | 175 PSI Rating* |            |           | 250 PSI Rating* |            |           |
|----------|---------------|-----------------|------------|------------------|------------|-----------------------------|------|------|---------------------|-----------------|------------|-----------|-----------------|------------|-----------|
| Motor HP | Tank Cap Gal. | R-Series CAERSB | Pump Model | PL-Series CBEPLB | Pump Model | L                           | W    | H    |                     | RPM             | CFM Displ. | CFM Del'y | RPM             | CFM Displ. | CFM Del'y |
| 8        | (2) 4         | HGR3-LP         | R15B       | NA               | NA         | 38                          | 22.8 | 45   | 345                 | 600             | 17.5       | 14.8      | NA              | NA         | NA        |
| 8        | 30            | HGR3-3          | R15B       | HGPL3-3          | PL15A      | 38                          | 22.8 | 45   | 345                 | 600             | 17.5       | 14.8      | NA              | NA         | NA        |
| 13       | NA            | BGR7-H          | R15B       | BGPL7-H          | PL15A      | 41.2                        | 20.5 | 29.3 | 304                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 13       | (2) 4         | HGR7-LPH        | R15B       | HGPL7-LPH        | PL15A      | 41.3                        | 22.3 | 37.6 | 404                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 13       | 30            | HGR7-3HB        | R15B       | HGPL7-3H         | PL15A      | 41.6                        | 20.5 | 45.5 | 434                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 13       | 60            | HGR7-6H         | R15B       | HGPL7-6HH        | PL15A      | 52.5                        | 21.3 | 49.1 | 500                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 13       | 80            | HGR7-8H         | R15B       | HGPL7-8H         | PL15A      | 67.5                        | 21.3 | 49.1 | 539                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 14       | NA            | BGR7K           | R15B       | BGPL7K           | PL15A      | 41.2                        | 20.5 | 29.3 | 304                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 14       | (2) 4         | HGR7-LPK        | R15B       | HGPL7-LPK        | PL15A      | 41.3                        | 22.3 | 37.6 | 404                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 14       | 30            | HGR7-3K         | R15B       | HGPL7-3K         | PL15A      | 41.6                        | 20.5 | 45.5 | 434                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 14       | 60            | HGR7-6K         | R15B       | HGPL7-6HK        | PL15A      | 52.5                        | 21.3 | 49.1 | 500                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 14       | 80            | HGR7-8K         | R15B       | HGPL7-8K         | PL15A      | 67.5                        | 21.3 | 49.1 | 539                 | 1025            | 29.9       | 23.2      | 950             | 27.7       | 19.8      |
| 20       | NA            | BGR10K          | R30D       | BGPL10K          | PL30A      | 34                          | 23   | 29   | 715                 | 765             | 44.6       | 36.2      | 680             | 39.6       | 31.2      |
| 20       | 80            | HGR10-8K        | R30D       | HGPL10-8K        | PL30A      | 66.5                        | 21   | 49.8 | 715                 | 765             | 44.6       | 36.2      | 680             | 39.6       | 31.2      |
| 23       | 5             | BGR-12K         | R30D       | BGPL-12K         | PL30A      | 46                          | 28   | 35.8 | 645                 | 940             | 55         | 44.2      | 810             | 47.2       | 38.4      |

H - Honda, B - Briggs and Stratton, K - Kohler.

NOTE: Only pressure lubricated units are capable of 250 PSIG operation.

Units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC3.

Dimensions are for R-Series compressors. Add 1" to the width for PL units.



**KOHLER**

14 HP - Command Pro



**KOHLER**

20 HP - Command Pro



**KOHLER**

23 HP - Command Pro



**HONDA**

13 HP - GX390



**BRIGGS & STRATTON**

8 HP - 1450 Series





## ENGINE DRIVEN *Diesel*

| DIESEL   |               |                 |            |                  |            | NEW CAERSB Model Dimensions |      |      | Approx. Weight lbs. | 175 PSI Rating* |            |           | 250 PSI Rating* |            |           |
|----------|---------------|-----------------|------------|------------------|------------|-----------------------------|------|------|---------------------|-----------------|------------|-----------|-----------------|------------|-----------|
| Motor HP | Tank Cap Gal. | R-Series CAERSB | Pump Model | PL-Series CBEPLB | Pump Model | L                           | W    | H    |                     | RPM             | CFM Displ. | CFM Del'y | RPM             | CFM Displ. | CFM Del'y |
| 10       | NA            | BDR5-K          | R15B       | BDPL5-K          | PL15A      | 41.2                        | 20.6 | 29.3 | 518                 | 870             | 25.3       | 20.1      | 650             | 18.9       | 13.6      |
| 10       | 30            | HDR5-3K         | R15B       | HDPL5-3K         | PL15A      | 41.6                        | 20.5 | 45.5 | 525                 | 870             | 25.3       | 20.1      | 650             | 18.9       | 13.6      |
| 10       | 80            | HDR5-8K         | R15B       | HDPL5-8K         | PL15A      | 67.5                        | 21.3 | 49.1 | 630                 | 870             | 25.3       | 20.1      | 650             | 18.9       | 13.6      |
| 10       | NA            | BDR5-Y          | R15B       | BDPL5-Y          | PL15A      | 41.2                        | 20.6 | 29.3 | 518                 | 940             | 27.4       | 21.7      | 810             | 23.6       | 18.7      |
| 10       | 30            | HDR5-3Y         | R15B       | HDPL5-3Y         | PL15A      | 42.7                        | 20.5 | 45.5 | 525                 | 940             | 27.4       | 21.7      | 810             | 23.6       | 18.7      |
| 10       | 80            | HDR5-8Y         | R15B       | HDPL5-8Y         | PL15A      | 67.5                        | 21.3 | 49.1 | 630                 | 940             | 27.4       | 21.7      | 810             | 23.6       | 18.7      |
| 25       | (2) 4         | BDRA-15K        | R40A       | BDPL-15K         | PL40A      | 52                          | 29   | 42   | 813                 | 910             | 72.8       | 59        | 800             | 64         | 51.5      |

K - Kohler. Y-Yanmar.

NOTE: Only pressure lubricated units are capable of 250 PSIG operation.

Units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC3.

Dimensions are for R-Series compressors. Add 1" to the width for PL units.



**KOHLER**

10 HP - Kohler Diesel



**KOHLER**

25 HP - Kohler Diesel



**YANMAR**

10 HP - L100V



# Nationwide Service Network

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



## Other Innovative Products



### Filters

A full range of filters 20–21.250 cfm; coalescing, particulate, and activated carbon for the removal of water, oil, and particulates from compressed air.



### Refrigerated Dryers

A full line of high quality refrigerated dryers with features and benefits unmatched by the competition.

Designed to produce dew points as low as 38° F in compressed air.



### 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 foodgrade synthetic.

## Complete LINE OF COMPRESSORS



The most complete line of electric stationary recip compressors on the market. With offerings from a single stage fractional HP to a 30HP duplex, Champion has a compressor to fit your needs.



A rotary screw compressor line packed full of high quality features. Available as a simple base unit or a complete plug and play air system, the Vision Series is the leader in small horsepower rotary screw compressors.





# The Champion Assembled Unit Warranties

## Compressor Pump Warranty

Each new Champion Assembled Unit has a five (5) year warranty on the compressor pump only, against defects in materials or workmanship under normal use and service, from the date of installation or sixty-six (66) months from the date of shipment by Champion or a Champion distributor, whichever may occur first.

The five-year extended warranty covers parts and labor and is prorated over the five years as follows:

Year One — 100% coverage

Year Two — 90% coverage

Year Three — 80% coverage

Year Four — 70% coverage

Year Five — 60% coverage

Head valves are warranted for Year One only. Warranty on components and/or accessories furnished to Champion by third parties, such as electric motors, gasoline engines and controls, are warranted only to the extent of the original manufacturer's warranty to Champion. Electric motors must be equipped with thermal overload protection to have warranty consideration.

The extended five-year warranty will apply to ASME air receivers if they are installed on rubber vibro isolator pads or approved equivalent.

## Limited Warranty

Warranty shall not apply to any equipment which has been subjected to misuse, neglect or accident, nor shall it apply to any equipment that has been repaired or altered by any person(s) not authorized by Champion. Failure caused by lack of proper maintenance is not covered by warranty.

In no event shall Champion be liable for consequential damages or contingent liabilities arising out of failure of any compressor or part to operate properly. When a compressor pump or component is changed or replaced during the warranty period, the new/replaced item(s) is warranted for only the remainder of the original warranty period. Complete warranty details are included in compressor operating manual.

## Package Warranty

Champion warrants each new air compressor package to be free from defects in material and workmanship under normal use and service for a period of one year (12 months) from the date of installation or 15 months from the date of shipment by Champion.



[www.ChampionPneumatic.com](http://www.ChampionPneumatic.com)

1301 North Euclid Avenue  
Princeton, Illinois 61356 USA  
[www.ChampionPneumatic.com/ContactUs.aspx](http://www.ChampionPneumatic.com/ContactUs.aspx)  
866-276-4330

© 2013 Gardner Denver, Inc.  
Printed in U.S.A.  
CR-ED-100 1st Ed. X/13  
Supersedes CR-ED-102 6th 3/10

Due to Champion's continuing product development program, specifications and materials are subject to change without notice or obligation.



Please recycle after use.

