

CHAMPION[®]

5-7.5 HP | QUIET ENCLOSED RECIPROCATING AIR COMPRESSORS

Evolution





Engineered **Excellence** Ultimate 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.

Performance Evolved

The Champion Evolution provides the advantages of a reciprocating compressor coupled with the low noise of a rotary screw. Ideal for areas with a low noise requirement, Evolution can be installed directly within the work environment close to the point-of-use, which eliminates the need for a dedicated

room or an outside installation. This can save hundreds of feet in piping, resulting in reduced pressure drops—ultimately increasing your bottom line. Champion is the clear choice in compressed air solutions.



Design Advantages

Competitive Advantages & Customer Benefits

- Integral cylinder and head eliminating the possibility of blown head gaskets for **leak-free, trouble-free operation.**
- Balanced aluminum alloy first stage piston(s) are weight matched to the cast iron second-stage piston(s) for **proper balance and minimized vibration.** Unique domed piston design for **maximum air delivery and efficiency.**
- Lightweight, high-density, die-cast aluminum alloy connecting rods for **minimal reciprocating weight.** Precision-bored crankpin bearing and piston pin needle bearing are used to properly distribute bearing loads for **longer bearing life** than bushings.
- Industrial grade, reliable, high-flow, low lift disc-type valves are made of corrosion resistant steel to ensure years of **trouble-free** operation.
- Tapered roller-type main bearings, providing full contact and support of the crankshaft, ensuring compressor **durability and long-life.**





Standard Features

- Multi-finned cylinders for cooler operating temperatures resulting in long life and consistent performance
- Two compression rings and one oil control ring to ensure low oil carry-over and provide efficient air delivery
- Large-diameter finned tubing with the greatest cooling effect between stages for maximum compressor efficiency
- Pressure relief valves located in inter-stage intercooler and discharge line for safe compressor operation
- Precision balanced flywheel with cast fan blades for optimum compressor cooling and longer life
- Removable manifolds for easy serviceability
- Balanced rugged ductile iron crankshaft with large diameter throws for minimum bearing loads and counterweights to minimize vibration
- Rugged cast iron oil reservoir with convenient sight glass gauge, corner oil fill boss and large oil drain for user-friendly serviceability
- A pressure switch allows the compressor to start unloaded every time—ensuring the lowest amount of starting torque is required by the electric motor



17.0 CFM @ 175 PSI	22.3 CFM @ 175 PSI
737 RPM	949 RPM

The Complete Package

The Champion Evolution is a prime example of a product that has evolved through analysis of our customers' needs and expectations. The Evolution establishes a precedence in innovation, quality, reliability, long life and high performance.

Standard Features

- Magnetic starter for thermal overload protection
- Manual tank drain
- Standard start/stop control
- Sound attenuating enclosure for low noise operation
- Ball valve on crankcase drain for easy maintenance of lubricant
- Front and back panels can be easily removed for fast and easy service access
- Air intake pre-filter
- Package easily fits through a standard 36" door
- 80/20 duty cycle
- Low oil stop control

Optional Accessories

- Moisture separator
- Dual control
- High temperature shut down
- Electric tank drain
- Vibration isolators



Energy Efficient
Durability

Support

Vibration
Minimization

Intermittent Duty Operation

Performance

Quiet

Genuine Replacement Parts

User-Friendly

Leader

Cooling Circuits

Ease of Service

User Friendly

Long Life

Lower Initial Costs

Heat Control

Superior
Cooling

Trouble-Free
Cool Operation

Heavy
Duty

Easy Service

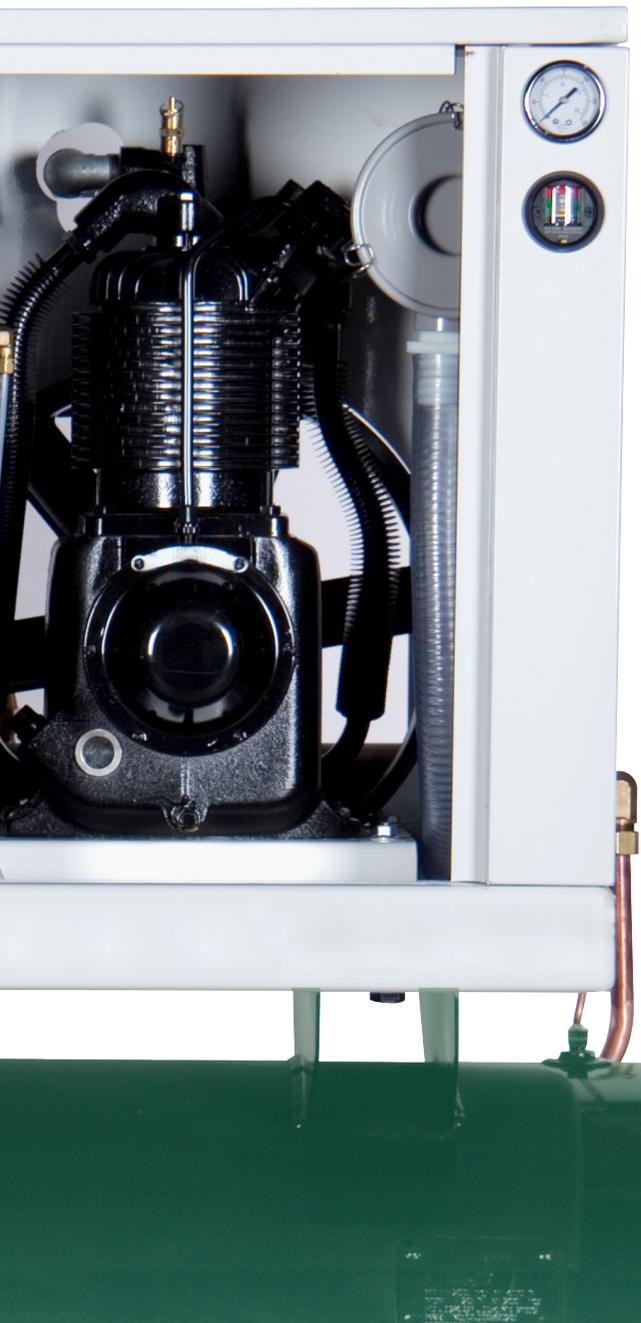
Superior Dependability

Low Noise

Severe Duty

Environment

Service Support





Nearly **Silent** Noise Levels

The Champion Evolution compressor features high-quality, sound-insulating enclosure panels and a low-noise, thermostatically-controlled, motor-driven fan. These components reduce the noise to whisper-quiet levels and eliminate the need for a separate compressor room, saving money on installation costs.

Sound Testing

With a commitment to research and development, Champion provides our customers with products which uphold our tradition of quality and proven results. As part of the new product development process, the Evolution has passed extensive design reviews as well as performance, endurance and sound testing requirements.



Evolution tested to CAGI adopted ISO 2151 certified standards

BASE MOUNTED UNITS

MOTOR HP	STOCKABLE VARIANT CABQEA	PUMP COMP MODEL	DIMENSIONS L x W x H IN.	APPROX. SHIP WT. LBS.	SOUND LEVEL (DBA)	175 PSI RATING*	
						RPM	CFM DEL'Y
5	BER5	RP15B	40.5 x 31.5 x 31	505	67	737	17.0
7.5	BER7F	RP15B	40.5 x 31.5 x 31	534	68	949	22.3

HORIZONTAL TANK MOUNTED UNITS

MOTOR HP	TANK CAP GAL.	STOCKABLE VARIANT CASQEA	PUMP COMP MODEL	DIMENSIONS L x W x H IN.	APPROX. SHIP WT. LBS.	SOUND LEVEL (DBA)	175 PSI RATING*	
							RPM	CFM DEL'Y
5	80	HER5-8	RP15B	67 x 31.5 x 53.5	733	67	737	17.0
7.5	80	HER7F-8	RP15B	67 x 31.5 x 53.5	762	68	949	22.3

*Units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC2.

Convenience & Peace of Mind



Standard Warranty

The standard warranty covers parts and labor on the package components for one year and three years on the compressor pump.



The Champion philosophy ensures long-lasting, reliable equipment. Our warranty program demonstrates our confidence in our products. Each new Champion assembled unit has a 3 year warranty on the compressor pump against defects in materials of workmanship under normal use and service.

*See standard warranty form BU-30 for complete standard warranty details.

Premium Extended Warranty

Purchase a Premium Warranty Kit at the same time as your new Champion compressor package to receive extended warranty protection. This offer will double the coverage with an additional 3 years of warranty on the compressor pump (parts & labor) providing 6 YEARS of worry free coverage. The Premium Extended Warranty also provides an extra 12 months coverage on the package for a total of 24 months. See Premium Warranty form BU-28 for complete extended warranty details.

- Premium Warranty kit has all necessary service items (oil & filters) for 6 years of annual maintenance.
- Duplex machines require two kits, one for each pump.
- The use of approved Champion lubricants are required to maintain the extended warranty period.



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[®]

1301 North Euclid Avenue
Princeton, Illinois 61356 USA
www.ChampionPneumatic.com



Product specifications and materials are subject to change without notice.

©2023 Gardner Denver, Inc. Printed in U.S.A.
CR-EVOL 1st Ed. 8/23
Supersedes CR-EVOL-5-15 2nd Ed. 6/18

 Please recycle after use.