

CHAMPION®

RECIPROCATING | ROTARY | AIR TREATMENT

Compressed Air Solutions



Decades of Proven Excellence

Champion has a long, rich history in the compressed air market. For nearly a century, Champion has supplied high quality, reliable compressed air products that keep industries such as automotive, industrial, woodworking and agriculture up and running.



Experience

With over **100 YEARS OF EXPERIENCE**, Champion compressors are the product of decades of design and development.

Quality

Our goal is to provide you with compressors that fulfill and **EXCEED YOUR EXPECTATIONS** and requirements.

Knowledge

Champion knows and **UNDERSTANDS THE APPLICATION** of our products in many different operating environments.

Reputation

Since 1919, Champion has been **SETTING NEW STANDARDS** in reciprocating and rotary air compressor systems, parts and service.

Dependability

Known for their **RELIABILITY FROM DECADES** of use, Champion compressors are a proven product.

The Right Product for Your Application

With the compressed air market's widest breadth of compressed air products—reciprocating, rotary vane and rotary screw—choosing the right product for the application is key to continuing the success that was started in 1919.

Reciprocating

Lubricated and oil-less reciprocating compressors from Champion are known world-wide for trouble-free operation, long life and built-in efficiencies you can count on. An ideal solution in intermittent duty applications, the reciprocating product lines offered through Champion are a great solution to your compressed air needs.



RV-SERIES

- Reciprocating
- Intermittent Duty
- Cost Effective
- Low Maintenance Costs

Rotary Vane

Lubricated rotary vane compressors from Champion feature an integrated sliding vane airend that is directly driven at a slow, 1800 RPM speed. Found in applications such as car washes, autobody shops, trains, distilleries, breweries, and industrial manufacturing facilities, these robust compressors are an excellent low noise alternative to a reciprocating compressor or in areas that require an extremely small footprint.



R-SERIES

- Reciprocating
- Unenclosed/Quiet Enclosed
- Intermittent Duty
- Cost Effective
- Configuration Flexibility
- Low Maintenance Costs

Rotary Screw

Champion offers two highly competitive, expertly-designed lubricated rotary screw compressor lines. Using the latest design techniques, these compressors give you industry-leading reliability, performance and value. When used in 100% duty cycle applications, rotary screw compressors from Champion are a great, quiet alternative to a reciprocating compressor.



LV-SERIES

- Rotary Vane
- Unenclosed
- Continuous Duty
- 1800 RPM Direct Drive
- Quiet
- Small Footprint
- Ideal for Harsh Environments

Rotary Scroll

The CA-Series Rotary Scroll compressors provide the reliable, high quality compressed air that you've come to expect from Champion. Designed specifically for industrial and laboratory applications that require 100% oil-less air. CA-Series compressors offer a wide selection of configurations and top-quality available options.



CA-SERIES

Rotary Scroll

Oil-Less

Unenclosed/Enclosed

Continuous Duty

3600 RPM Belt Drive

NEMA 4 Electrical Enclosure

Advanced Microprocessor
Controller Option

Low Sound Levels &
Vibration



D-SERIES

Rotary Screw

Quiet Enclosed

Continuous Duty

3600 RPM Belt, Gear &
Direct Drive

Fixed/Variable Speed

5 to 200 HP

Extremely Low Noise

L-SERIES

Rotary Screw

Quiet Enclosed

Continuous Duty

3600 RPM Belt &
Direct Drive

Fixed/Variable Speed

Integrated Airends Ensure
Superior Serviceability





Evaluating Your Operation

Duty Cycle

Duty cycle can be defined as, "How much will the compressor be on/off in a given time period?" For instance, if a compressor would be turned on/off multiple times in an hour, the application would be considered an intermittent duty cycle application. Whereas, if a compressor were to be running the entire hour, it would be considered a continuous duty cycle (or 100% duty cycle) application.

Depending on your application, there could be a mix of continuous and intermittent duty cycle. Take a car wash for example. Throughout the work week, the duty cycle may be quite intermittent because of slower, sporadic traffic, but on the weekend, when the car wash is very busy, the duty cycle could change to continuous. Fully evaluating the duty cycle is key to selecting the product technology and machine configuration that best meets your needs.

With the amount of products offered by Champion, it's important to narrow your selection to the product that best fits the application where it will be used. By selecting the right product, you can be confident that you'll experience trouble-free operation and a continuous supply of clean, dry air.

Demand Profile & Flow Requirements

Understanding your demand profile (duty cycle and fluctuations in plant demand) and flow requirements will enable you to select the compressor product that is the best fit to meet their compressed air needs.



INTERMITTENT

RECIPROCATING

TYPICAL APPLICATIONS

- Small Body Shops
- Tire Shops
- Car wash Facilities

RECIPROCATING

ROTARY VANE

ROTARY SCROLL

ROTARY SCREW

TYPICAL APPLICATION

- Car wash
(Weekday vs. Weekend)

CONTINUOUS

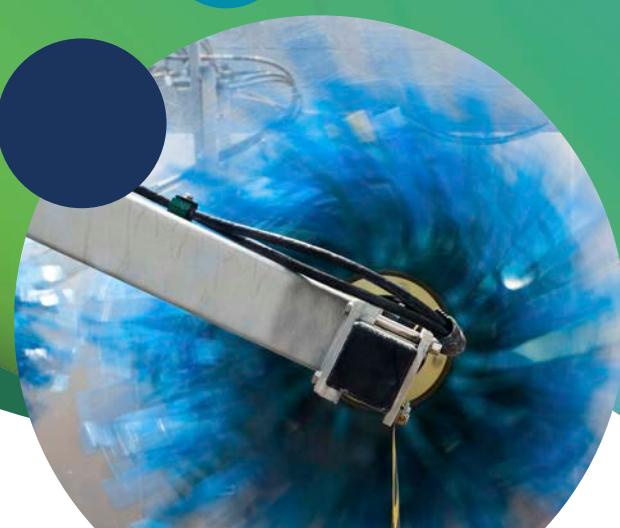
ROTARY VANE

ROTARY SCROLL

ROTARY SCREW

TYPICAL APPLICATIONS

- Industrial Manufacturing
(Light to Heavy)
- Large Body Shops





Accommodating Applications

The environment that the compressor will be installed should be a key area of review when evaluating the Champion compressor offerings. An application that is in a very dirty, rugged environment would lean itself towards our robust, rotary vane compressors or our rugged A-, PL-, or R-Series reciprocating machines.

If low dBA is required because the compressor will sit close to a work area or in a residential area, our rotary vane, rotary screw or quiet enclosed reciprocating compressors would be the products of choice.

Understanding the application's environment will also allow you to choose the right configuration and series of machine. Regardless of technology, Champion has a compressor to accommodate all application requirements.

Types of Environments

- Low dBA:
Revolution reciprocating compressor, LV-Series, CA-Series, L-Series & D-Series
- Rugged, dirty environments:
A-Series, LV-Series, R-Series & PL-Series
- Environments where NFPA requirements must be met:
CA-Series, MTO II, V & W Series

Understanding the Environment



At Champion,
we have a product to fit
all types of environments



Considering the Overall Picture

Customer Objectives

In today's competitive market, it is crucial that we not only look at the environment and duty cycles when selecting a Champion compressor, but also look at our customer's profile.



SOLUTIONS FOR **EVERY** APPLICATION

SPECIFIC APPLICATION NEEDS

Climate Control
V & W Series, MTO II
CA-Series

RUGGED PERFORMANCE

A-Series
R-Series
PL-Series

ENERGY EFFICIENCY

DRS-Series
LRS-Series

COST EFFICIENCY

Commandair
VP-Series
RV-Series

QUIET

D-Series
Revolution
L-Series
CA-Series

QUICK DELIVERY

Advantage

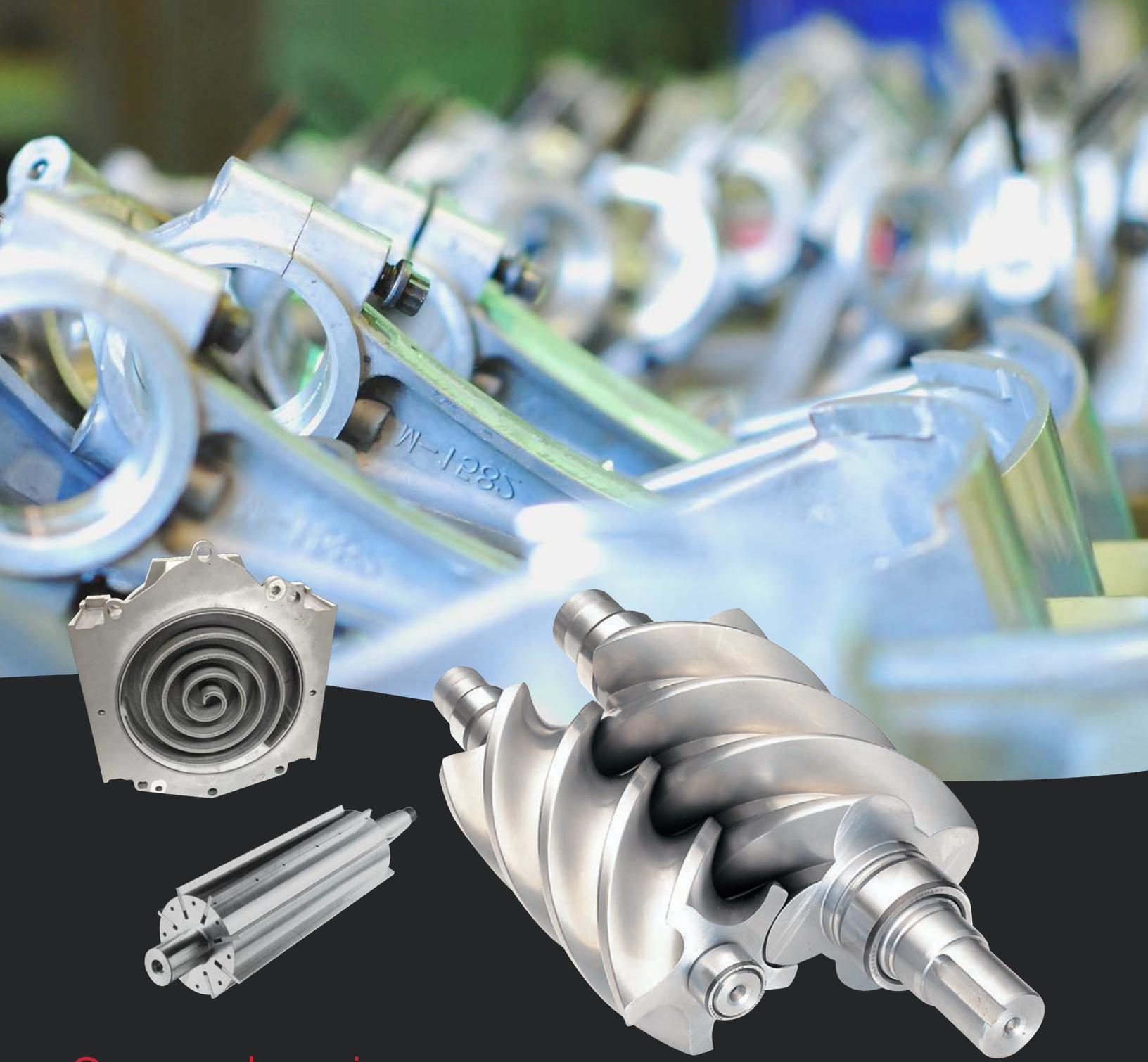
CONTINUOUS DUTY

D-Series, L-Series, CA-Series
LV-Series, LVR-Series
V & W Series, MTO II

OPTIONS

R-Series
PL-Series





Comprehensive Product Portfolio

Whether a reciprocating, rotary vane or rotary screw compressor is the right choice for your application, you can feel confident that Champion has a product to meet your needs. With industry-leading extended warranty programs, quick delivery on all products, and over 1,100 authorized distributors, Champion can get and keep you up and running.



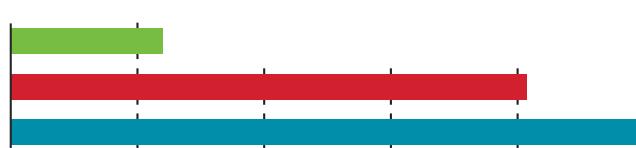
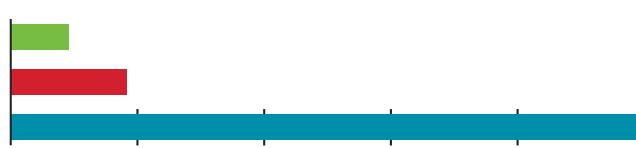


TECHNOLOGY OVERVIEW

Technology	Specifications
Reciprocating Unenclosed	<p>UP TO</p> <p>60 HP*</p> <p>205 CFM*</p> <p>250 PSIG</p>
Reciprocating Quiet Enclosed	<p>UP TO</p> <p>15 HP</p> <p>46.6 CFM</p> <p>175 PSIG</p>
Rotary Vane Unenclosed Direct Drive 1800 RPM	<p>UP TO</p> <p>20 HP*</p> <p>72.8 CFM*</p> <p>150 PSIG</p>
Rotary Screw Quiet Enclosed Belt/Direct Drive 3600 RPM	<p>UP TO</p> <p>40 HP</p> <p>193 CFM</p> <p>190 PSIG</p>
Rotary Scroll Quiet Enclosed Belt Drive 3600 RPM	<p>UP TO</p> <p>40 HP*</p> <p>126.4 CFM*</p> <p>140 PSIG</p>

*HP/CFM rating is the combined total power of a multiplex unit.

Reciprocating

Model	Specifications		
R-Series		UP TO 60 HP* 205 CFM* 175 PSIG	
PL-Series		UP TO 60 HP* 205 CFM* 250 PSIG	
Engine Driven		UP TO 23.9 HP 44 CFM 250 PSIG	
Revolution		UP TO 15 HP 46.6 CFM 175 PSIG	

*HP/CFM rating is the combined total power of a multiplex unit.



Reciprocating

Model	Specifications		
A-Series		UP TO 30 HP 60 PSIG	
VP-Series		UP TO 7.5 HP 44.4 CFM 175 PSIG	
Commandair		UP TO 3 HP 10.2 CFM 90 PSIG	
RV-Series		UP TO 15 HP 48.1 CFM 175 PSIG	
Climate Control		UP TO 1.5 HP* 11.4 CFM* 80 PSIG	

Rotary—Fixed Speed

Model	Specifications		
D-Series		UP TO	175 HP 762 CFM 175 PSIG
L-Series		UP TO	40 HP 193 CFM 190 PSIG
LV/LVR-Series		UP TO	20 HP* 72.8 CFM* 150 PSIG

*HP/CFM rating is the combined total power of a multiplex unit.

Rotary—Variable Speed

Model	Specifications
DRS-Series	 <p>UP TO 200 HP 923 CFM 175 PSIG</p> 
LRS-Series	 <p>UP TO 40 HP 192 CFM 190 PSIG</p> 





Oil-Less

Model	Specifications									
MTO II	 <p>UP TO</p> <table><tr><td>10</td><td>HP*</td><td></td></tr><tr><td>34.8</td><td>CFM*</td><td></td></tr><tr><td>100</td><td>PSIG</td><td></td></tr></table>	10	HP*		34.8	CFM*		100	PSIG	
10	HP*									
34.8	CFM*									
100	PSIG									
V & W Series	 <p>UP TO</p> <table><tr><td>60</td><td>HP*</td><td></td></tr><tr><td>207</td><td>CFM*</td><td></td></tr><tr><td>175</td><td>PSIG</td><td></td></tr></table>	60	HP*		207	CFM*		175	PSIG	
60	HP*									
207	CFM*									
175	PSIG									
CA-Series	 <p>UP TO</p> <table><tr><td>40</td><td>HP*</td><td></td></tr><tr><td>126.4</td><td>CFM*</td><td></td></tr><tr><td>140</td><td>PSIG</td><td></td></tr></table>	40	HP*		126.4	CFM*		140	PSIG	
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*HP/CFM rating is the combined total power of a multiplex unit.

Compressed Air Solutions to Fit Any Industry



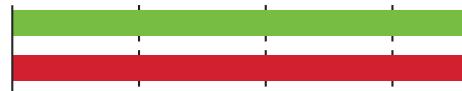
Air Treatment & Aftermarket

Product	Model
Air Dryers	<p>XCNC-Non-Cycling Refrigerated XCCY-Cycling Refrigerated XCHL-Heatless Desiccant XCMU-Modular Desiccant XCHB-Heated Blower Desiccant XCHP-Heated Purge Desiccant CRPC - Energy Saving CHT - High Inlet Temperature CDT - Heatless Desiccant CDS - Single Tower CDHM - Dual Tower</p> 
Compressor Filters	<p>CFL - Air Filters CFE - Mist Eliminators CFG - Spin-On Air Filter FRL - Filter-Regulator Lubricator XC Filtration Series</p> 
Condensate Management	<p>CSP - EnviroChamp2 Oil & Water Separator CHWS - Oil & Water Separator IntelliPAK - Oil & Water Separator CDV1 & 2 - Electronic & Pneumatic Drains</p> 
Controllers	<p>Guardian CHX - Flow Controller</p> 
Tubing	<p>QUICK-LOCK & BIG-LOCK TUBING Solid Metal Tubing and Fittings Easy Installation Lightweight Design</p> 
Lubricants & Maintenance Kits	<p>RECIPROCATING - ChampLub, ChampLub Synthetic Plus, ChampLub Food Grade ROTARY - RotorLub, RotorLub Synthetic, RotorLub Food Grade MAINTENANCE KITS for Routine Maintenance</p> 

Features & Specifications

UP TO

180 INLET TEMP (°F)



5400 SCFM



250 PSI



■ Packaged Filtration (optional) ■ Automatic Zero-Loss Drain

UP TO

150 INLET TEMP (°F)



21250 SCFM



300 PSI



■ Removal of solid contaminants down to 5 micron ■ Separate bulk liquids
■ Prevent oil and water aerosol from damaging components



Sales & Service **Distributors** Across America

An Extensive Network

By leveraging the extensive network of Champion factory-trained authorized local distributors, your sales, service and technical support needs can be handled quickly and easily. Keeping your compressors maintained and adequately serviced has never been simpler.



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

To find a distributor visit:
www.ChampionPneumatic.com



The Champion philosophy ensures long-lasting, reliable equipment. Our warranties and programs demonstrate our belief in the quality found in Champion products.

We're Where You Need Us

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

Champion Pneumatic OEM/Distributor



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