

***CHAMPION***

5-15 HP | OIL-LESS RECIPROCATING AIR COMPRESSOR SYSTEMS

# V & W Series





## Pure Air

### Innovative Excellence

#### 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.

# Experience the Freedom

Champion oil-less compressors are designed to meet the most precise standards for compressed air purity in industrial and institutional applications. With advanced design features and a system that combines quality, durability and state-of-the-art lubrication technology, the V & W Series offers freedom from oil... freedom from maintenance...freedom from noise...freedom from worry!

## The Concept is Simple

No oil in the compressor equals no oil in the air. The unique design of the V & W Series assures the long life and productivity you've come to expect from Champion.



# Design Advantages

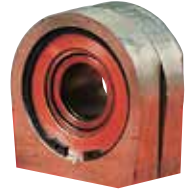
## Totally Dry Crankcase

Designed to maintain continuous operation. Finned to maximize efficient heat transfer. Large cover provides easy access to internal parts for service.



## Bearings

Long-lasting ball bearing design; 100% oil-less. 10,000-hour life on drive set bearings and 20,000 hours on main bearings.



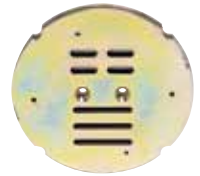
## Piston Rings

Designed for oil-less compressor service with three compression rings and two guide rings. Exclusive "O" ring bumper prevents axial movement of the guide rings and eliminates end wear. Formulated of filled PTFE material for long life and compatibility with the hardened nickel-plated, polished surface of the cylinder bore.



## Valves

Plated valve plates and reeds of highest grade steel extend operating life and durability.



## Crankshaft

Cantilevered crankshaft design provides superior balance and long life.



## Cast-Iron Cylinders

Permanently nickel-plated and hardened to resist wear and corrosion, even under extreme operating conditions. Smooth bore, polished finish, minimizes friction and reduces heat build-up for long ring wear life.



## Spring-Isolated Base

Eliminates need for special foundations. Compressor and motor are mounted on a common inner base plate. This inner base is mounted on vibration-isolation springs to absorb all vibration. Meets NFPA guidelines for medical air compressors (Over-and-under unit configuration uses elastomeric vibration-isolators).



## Air-Cooled Aftercooler

(Optional) Oversized, with ample reserve for cooling discharged air to within 5-10 degrees of ambient temperature. Enables air dryer to work at its highest efficiency.



## 100% Duty Cycle Operation

All models are rated for 100% continuous duty cycle at 100 PSIG for single-stage units and 175 PSIG for two-stage units.

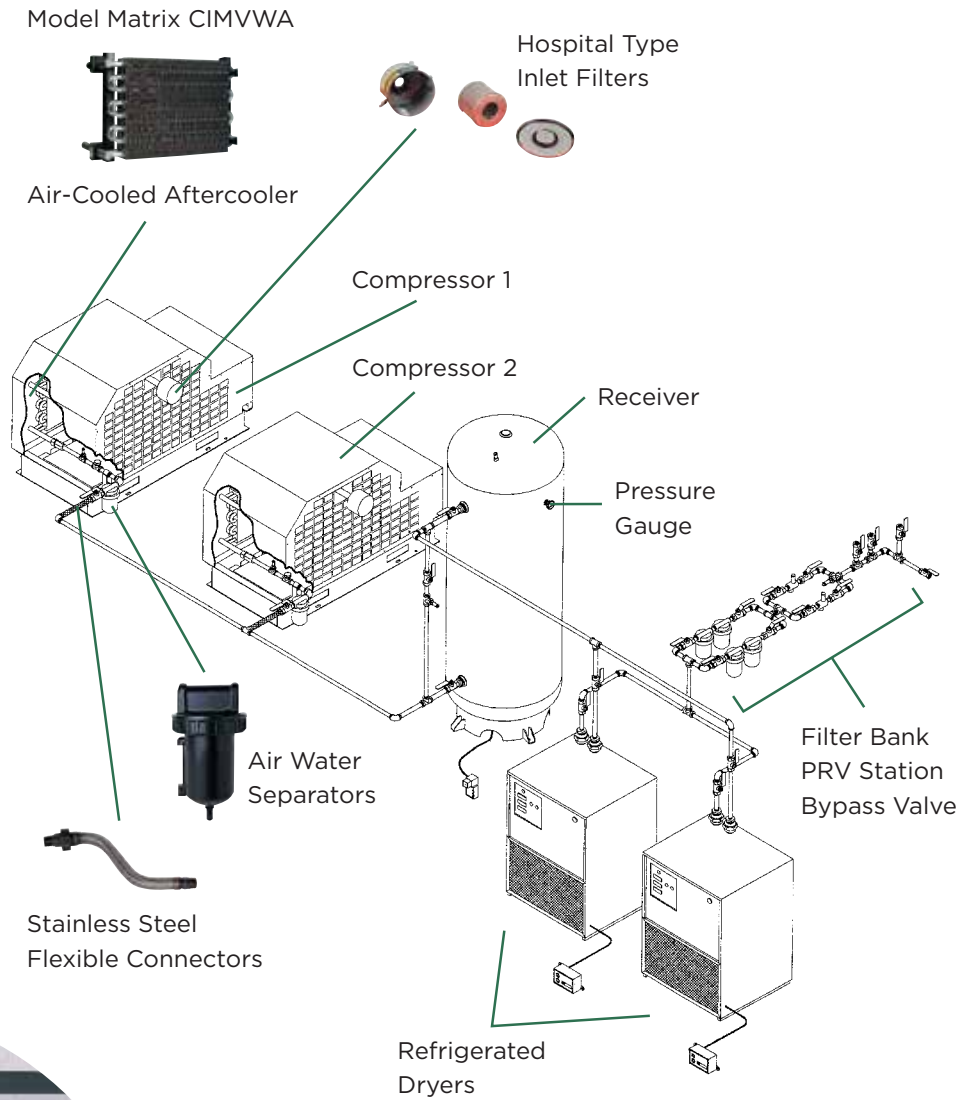


# The Complete Package

## Optional Features

A wide selection of configurations and options allows you to customize the compressor system to your specific needs:

- Control Panel
- Fusible Disconnect Switches
- Automatic Tank Drain
- Flexible Discharge Line
- Vibration-Isolators Gauges
- Vinyl-Lined or Galvanized Receivers
- Water-Cooled Aftercooler
- Remote Intake Air Filter/Silencer
- High Temperature Shutdown/Lag Compressor Alarm
- Air Dryer and Bypass Piping
- Downstream Filter Banks and Indicator



## Monitors

- Dewpoint Monitor
- CO Monitors



Chemical Processing Long-Life  
**Clean Air** Food Processing  
Quality Reliability SCUBA Oil-Less Air  
Pharmaceuticals Laboratory  
Productivity **NFPA** Advanced Design  
Dependable Performance

State-of-the-Art



# 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)



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

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