

60-75
100
125-150
200
HORSEPOWER

ROTARY SCREW COMPRESSORS

ROTORCHAMP™



**DIRECT DRIVE COMPRESSORS BUILT RIGHT.
SIMPLE, RELIABLE, AFFORDABLE.**



RotorChamp 60 to 200 HP compressors are built around a simple design philosophy: build a direct drive, gearless compressor that customers can afford. Direct drive means the compressor turns at motor speed in a 1 to 1 ratio. No gears or belts are used. When we come up with a better approach than direct drive to designing and building compressors, we will follow it.

At Champion, we strive to give you more for your dollar. The RotorChamp 60 to 200 HP compressor has standard equipment that competitive models offer only as an option. These options may cost you an additional \$2,000 to \$4,000. Champion offers these at no additional cost to you! A simple, affordable, reliable, direct driven Champion compressor will help you maximize cash flow and profits.



60-200 HORSEPOWER

100% CONTINUOUS DUTY CYCLE

ROTARY SCREW COMPRESSOR SYSTEMS

A



AIR INLET

B



AIR COMPRESSION

C



AIR COMPRESSION

D



COMPRESSED AIR DISCHARGE

ROTARY SCREW COMPRESSOR PRINCIPLE

THE DIRECT D

Today, everyone is talking direct drive only give you direct drive if you pay reliable, and affordable compressor.

DIRECT DRIVE SIMPLICITY.

Until recently, most manufacturers spoke against direct drive as too costly to justify the improved reliability. Now, more than ever, direct drive is the chosen design philosophy. Champion has known all along that direct drive makes sense. If you want a company with direct drive experience, choose Champion.

SIMPLE CAPACITY CONTROL.

Part load operating efficiency is maximized by combining on/off line and modulation capacity control into a single microprocessor controller. Touch pad selection of the most efficient operating mode means fast and easy energy savings.

GEARLESS DIRECT DRIVE.

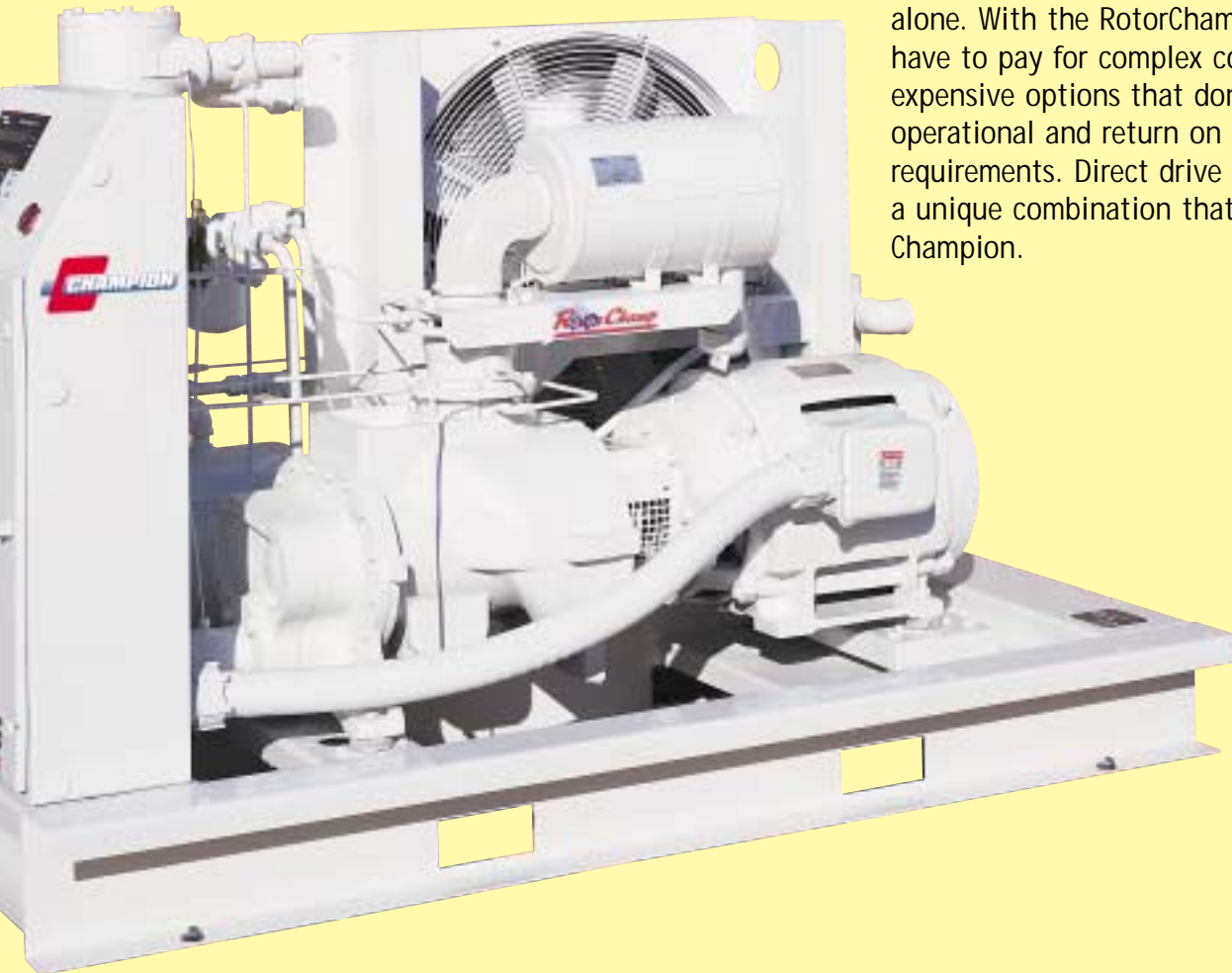
If you see the words direct drive, don't assume it means gearless. While the compressor unit may be direct coupled to the motor, gears are often hidden inside. All 60 to 200 HP RotorChamp units are gearless to maximize reliability and efficiency. Accept no substitutes.

DRIVE, NO GEARS COMPRESSOR

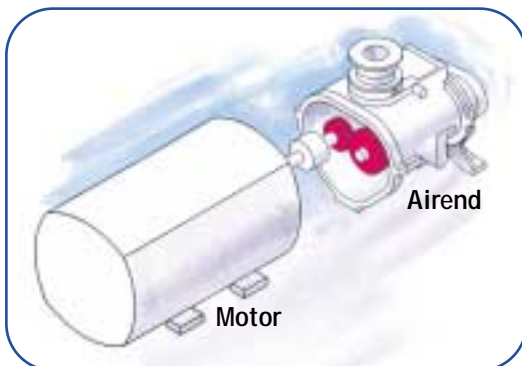
ve compressors. To some, this means direct connected, but gear driven. Others will for extras you don't need. At Champion, direct drive means NO GEARS in a simple, In short, direct drive done right!

DIRECT DRIVE AFFORDABILITY.

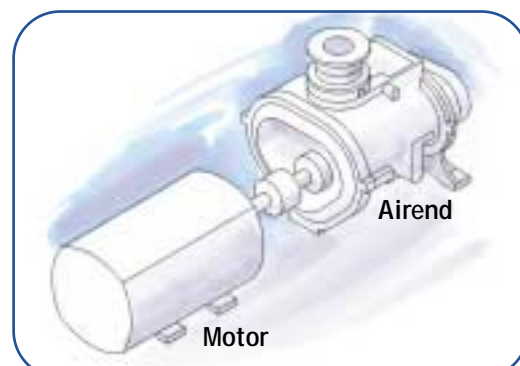
If done right, direct drive can also be affordable. This is where Champion stands alone. With the RotorChamp, you don't have to pay for complex controls and expensive options that don't meet your operational and return on investment requirements. Direct drive and affordable - a unique combination that is uniquely Champion.



GEARLESS - A SUBTLE, BUT CRITICAL DIFFERENCE.



Gear-driven



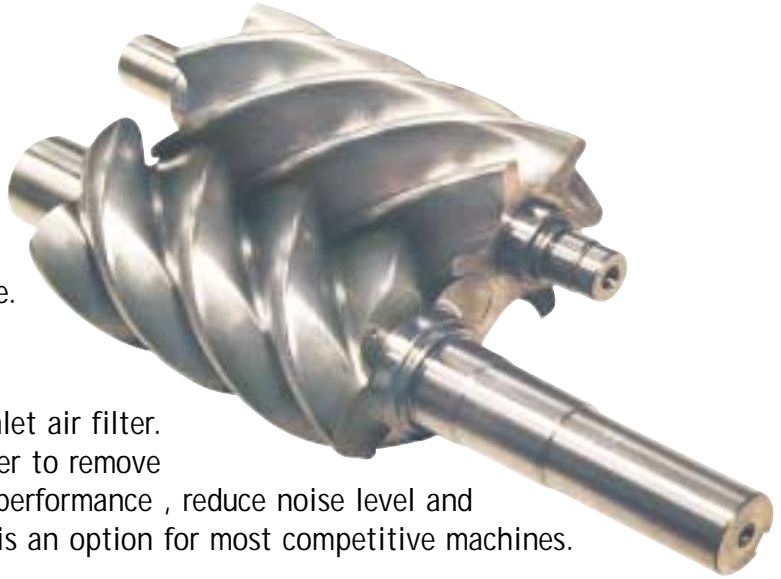
Direct-driven

RELIABLE PERFORMANCE

Based on decades of experience, Champion provides you time-tested technology

EFFICIENT BY DESIGN.

High performance is the result of precision ground rotors manufactured in a state of the art facility. The patented rotor profile with tolerances to 0.0002" is the most efficient in the industry. High quality cylindrical and tapered roller bearings are used to provide maximum reliability and performance.



HEAVY-DUTY INLET FILTRATION.

The first line of defense for any compressor is the inlet air filter. Each RotorChamp features a heavy-duty inlet air filter to remove airborne particulate down to 5 microns to optimize performance, reduce noise level and extend lubricant life. A critical design feature that is an option for most competitive machines.

QUALITY ROTORLUB™ DIRECT CONTACT OIL.

Superior design extends beyond the package. The RotorLub family of lubricants are formulated specifically for use in a rotary screw compressor. Premium base stocks and proprietary additive packages yield maximum lubricant life and performance in the demanding environment within an open-air compressor.

CAGI MEMBERSHIP.

As a member of the Compressed Air and Gas Institute (CAGI), Champion actively participates in the establishment of industry standards and energy awareness programs. CAGI develops and promotes performance testing standards, which have also been incorporated into the International Standards Organization. CAGI membership means your compressor performs as expected.

OIL INJECTION SYSTEM.

Lubricant is injected into RotorChamp compressors through numerous ports rather than a single injection point to dramatically reduce viscous drag as the rotor slices through heat-reducing lubricant. Reduced drag increases compressor efficiency and minimizes the largest cost associated with running a compressor - electrical cost.

LOW OIL CARRYOVER.

High performance means not skimping on design when it comes to air/oil separation. Featuring TWICE the surface area when compared to competitive separator element designs, the RotorChamp separation system limits oil carryover to less than 2PPM by weight measured upstream of the aftercooler -the lowest in the industry!



SIMPLE OPERATION

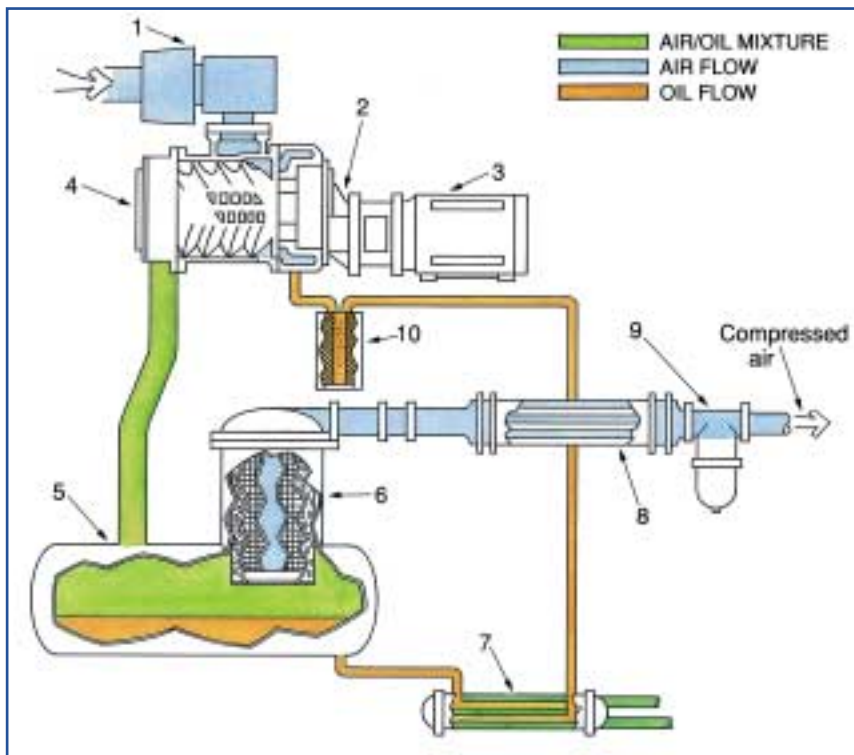
We heard you wanted an air compressor that was easy to use.
Champion listened...

AIRLOGIC™ CONTROLLER.

An option for most manufacturers, the standard solid state AirLogic™ controller makes the RotorChamp easy to use and maintain. Its self-diagnostic capabilities and energy saving features make it an industry leader. A digital, Full Vacuum Fluorescent Display and interactive compressor diagram makes communication between the operator and compressor as easy as possible. The controller acts as a personal air compressor maintenance supervisor and indicates when maintenance is required. And to continuously protect your investment, the AirLogic™ has protective shutdown features. What could be more logical?



THE SIMPLE/DEPENDABLE AIR SYSTEM



1. Heavy-duty inlet air filter - cleaner incoming air means less maintenance and longer operating life of the oil and compressor.
2. Direct driven - maintenance free and energy efficient.
3. Motor - complies with EPart efficiency standards.
4. Compressor air end - innovative oil injection system and rotor profile increases compression efficiency and high quality bearings ensure dependability.
5. Air/oil separator tank (reservoir) - constructed of high strength steel and connected with steel piping; this system is worry free.
6. Separator element - easy to replace and minimizes oil carryover.
7. Oil cooler - provides the proper operating temperature for the oil by air or water cooling.
8. Oversized aftercooler - more surface area means less energy used by fans.
9. Moisture separator/trap - removes water vapor before it gets into downstream processes.
10. Oil filter - a 10-micron filter ensures clean oil in the air end.

ALWAYS EXPECT MORE FROM CHAMPION.

Your Champion distributor has the tools and expertise to serve you in every way. Whether you are looking for parts, service or advice, your Champion distributor will help assure the most return on your RotorChamp investment.

Champion is also your single source provider for your compressed air system. OEM replacement parts, lubricant, filters, dryers, drain valves, oil/water separators, all can be conveniently obtained from your Champion distributor. By working with Champion, you are drawing on decades of experience in the compressed air market.

The RotorChamp airend is covered by a standard full two-year warranty. Receive a five-year airend warranty by simply purchasing the appropriate maintenance kit each year. See your Champion distributor for program details.



1301 North Euclid Avenue
Princeton, Illinois 61356 USA
Phone 815/875-3321
Fax 815/872-0421
E-mail: champion@championpneumatic.com

www.championpneumatic.com

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

ONE COMPANY.
ONE SOURCE.

