

Compressed Air Systems Catalog

► Reciprocating



► Rotary Screw



► Aftermarket/Parts



CHAMPION[®]

Advantage Series

STATIONARY

The Advantage Series air compressor units come with all the normally ordered accessories already mounted and factory tested. These air compressors are perfect for automotive services, industrial facilities, car washes, wood working shops and dry cleaners.



- ▶ Ships from Plant within 24 hours of order entry
- ▶ 2 Stage Splash Lubricated Pump
- ▶ Intake Filter and Silencer
- ▶ Factory Filled with ChampLub Lubricants
- ▶ OSHA Approved Belt Guard
- ▶ NEMA Rated Electric Motors
- ▶ Manual Drain Valve
- ▶ ASME Code Receivers (80, 120 Gallons)
- ▶ Preset Pressure Switch
- ▶ Magnetic Starter
- ▶ Air Cooled Aftercooler (excluding 5 HP)
- ▶ Low Oil Monitor
- ▶ Automatic Tank Drain
- ▶ Vibration Isolator Pads
- ▶ Auto Start/Stop Controls
- ▶ Dual Control Standard on 15 HP and Above (optional on 10 HP)
- ▶ 460 V Conversion Kits Available
- ▶ (5) Year Pro-rated Compressor Pump Warranty
- ▶ (1) Year Package Warranty
- ▶ (5) Year Electric Motor Warranty

Model	HP	Voltage	Tank Gallons	Style	Delivered CFM @ 175	Net Weight
VR5-8	5	230-1, 208/230-3	80	Vert	16.5	535
HR5-8	5	230-1, 208/230-3	80	Horiz	16.5	535
VR7F-8	7.5	230-1, 208/230-3	80	Vert	23.1	570
VR10-12	10	208/230-3	120	Vert	34.8	890
HR10-12	10	208/230-3	120	Horiz	34.8	890
HRA15-12	15	208/230-3	120	Horiz	53.7	1110
HRA25-12	25	208/230-3	120	Horiz	90.1	1365

Duplex Packages

STATIONARY

- ▶ (2) Two Stage Splash or Pressure Lubricated Compressor Pumps
- ▶ (2) Mounted and Pre-wired Magnetic Starters
- ▶ (2) Mounted and Pre-wired NEMA Rated Electric Motors
- ▶ Alternator Mounted and Pre-wired
- ▶ ASME Code Receivers (80, 120, 250 Gallon)
- ▶ OSHA Approved Belt Guards
- ▶ Start/Stop Controls with Alternation
- ▶ Manual Drain Valve
- ▶ Available in pressures up to 250 PSI
- ▶ (5) Year Pro-rated Compressor Pump Warranty
- ▶ (1) Year Package Warranty
- ▶ (5) Year Electric Motor Warranty

Two-stage air compressors are used in automotive, industrial and commercial applications. A unique configuration that allows 100% redundancy on one frame. Duplex compressors can operate one compressor at a time, alternating automatically between the two compressors, or when required, operate together to provide double the air delivered on a single unit.



Model	HP (2)	Voltage	Tank Gallons	Style	Delivered CFM @ 175	Net Weight
HR3D-8	3	230-1, 208/230/460-3	80	Horiz	19.4	725
HR5D-8	5	230-1, 208/230/460-3	80	Horiz	33.0	755
HR7D-12	7.5	230-1, 208/230/460-3	120	Horiz	51.6	1305
HR10D-12	10	208/230/460-3	120	Horiz	69.6	1525
HRA15D-25	15	208/230/460-3	250	Horiz	107.4	2460
HRA20D-25	20	208/230/460-3	250	Horiz	153.4	2845
HRA25D-25	25	208/230/460-3	250	Horiz	180.2	2940
HRA30D-25	30	208/230/460-3	250	Horiz	202.0	3018

Additional configurations available

Centurion II

STATIONARY



These are heavy duty compressors for automotive and industrial service. They come in sizes from 5–15 horsepower with optional motor starter. Centurion II air compressors are excellent for any application that needs a heavy duty compressor. Units install easily, only requiring an electrical connection and connection to the compressed air system piping.

- ▶ 100% Cast Iron Cylinders
- ▶ 2 Stage Splash Lubricated Pump
- ▶ Oil Level Site Glass
- ▶ Deep Finned Intercooler
- ▶ Intake Filter and Silencer
- ▶ Auto Start/Stop Controllers
- ▶ Factory Filled with ChampLub Lubricant
- ▶ OSHA Approved Belt Guard
- ▶ NEMA Rated Electric Motors
- ▶ Manual Drain Valve
- ▶ ASME Code Receivers (60, 80, 120 Gallons)
- ▶ Preset Pressure Switch
- ▶ (2) Year Compressor Pump Warranty
- ▶ (1) Year Package Warranty
- ▶ (5) Year Electric Motor Warranty

Model	HP	Voltage	Tank Gallons	Style	Delivered CFM @ 175	Net Weight
HRV5-8	5	230-1, 208/230/460-3	80	Horiz	16.5	530
VRV5-8	5	230-1, 208/230/460-3	80	Vert	16.5	530
HRV5-12	5	230-1, 208/230/460-3	120	Horiz	16.5	760
VRV5-12	5	230-1, 208/230/460-3	120	Vert	16.5	760
HRV7F-12	7.5	230-1, 208/230/460-3	120	Horiz	23.1	875
VRV7F-12	7.5	230-1, 208/230/460-3	120	Vert	23.1	875
HRV10-12	10	208/230/460-3	120	Horiz	34.8	890
VRV10-12	10	208/230/460-3	120	Vert	34.8	890
HRV15F-8	15	208/230/460-3	80	Horiz	49.0	740
HRV15F-12	15	208/230/460-3	120	Horiz	49.0	960

Additional configurations available

Value Plus Series

STATIONARY

- ▶ 100% Cast Iron Cylinders
- ▶ Splash Lubricated Pump
- ▶ 125 –175 P.S.I. Maximum Operating Pressure
- ▶ Intake Air Filter/Silencer
- ▶ Factory Filled with Champlub A. C. Lubricants
- ▶ Single and Three Phase Electrics
- ▶ ASME Code Air Receivers (60, 80, 120 Gallons)
- ▶ OSHA Approved Belt Guard
- ▶ NEMA Rated Electric Motors
- ▶ Manual Drain Valve on Receiver
- ▶ Magnetic Starters Optional (3 and 5 HP Capacitor Start)
- ▶ (2) Year Compressor Pump Warranty
(1) Year Package Warranty
(5) Year Electric Motor Warranty

The Value Plus Series is ideal for air tool operation in a shop, home or maintenance facility. Each compressor is available with a cast iron single or two stage splash lubricated pump.



Model	HP	Voltage	Tank Gallons	Style	Delivered CFM	Net Weight
3V60E	3	230-1	60	Vert	10.2 @ 100	295
5V60E	5	230-1, 208/230/460-3	60	Vert	15.9 @ 175	535
5H80E	5	230-1, 208/230/460-3	80	Horiz	15.9 @ 175	615
7.5V80E	7.5	230-1, 208/230/460-3	80	Vert	22.5 @ 175	600
7.5H80E	7.5	230-1, 208/230/460-3	80	Horiz	22.5 @ 175	685
10H80E	10	208/230/460-3	80	Horiz	28.6 @ 175	630
10H120E	10	208/230/460-3	120	Horiz	28.6 @ 175	755
15H120E	12	208/230/460-3	120	Horiz	44.4 @ 175	935

Additional configurations available

Engine Driven

PORTABLE

Engine driven compressors are designed for areas where electrical service is unavailable. Engine mounted compressors meet the needs of field or road service applications. Specific units are available to be operated with gas or diesel fuel.



- ▶ Two Stage, Splash or Pressure Lubricated Compressor Pumps
- ▶ Oil Level Site Glass on Pump
- ▶ Industrial Type Filter /Silencer
- ▶ Pressure Gauge
- ▶ Pressures up to 250 lbs.
- ▶ Manual Tank Drain
- ▶ ASME Code Receiver
- ▶ Factory Filled with ChampLub Lubricant
- ▶ Vibration Isolator Pads standard on all 30 gallon tanks
- ▶ Engines are available as pressure lubricated, electric start and back-up recoil start standard on Briggs and Stratton Engines
- ▶ (5) Year Pro-rated Compressor Pump Warranty
(1) Year Package Warranty

Model	HP	Engine Brand	Fuel Type	Tank Gallons	Style	Delivered CFM @ 175 PSI	Net Weight
HGM3-3B	8	Briggs	Gas	30	Horiz	14.3	345
HGR5-3H	11	Honda	Gas	30	Horiz	20.1	409
HGR7-3K	13	Kohler	Gas	30	Horiz	23.2	409
HGR10-8K	20	Kohler	Gas	80	Horiz	34.4	715
BGR12K	23	Kohler	Gas	N/A	Base	39.5	645
BGRA15W	35	Wisconsin	Gas	N/A	Base	59.0	1075
HDR5-3Y	10	Yanmar	Diesel	30	Horiz	16.5	500
BDRA15L	27	Lombardini	Diesel	(2) 4	Horiz	59.0	813

Additional configurations available

Rotary Vane Vacuum

STATIONARY

Champion oil lubricated rotary vane vacuum pumps have a proven track record in a wide variety of industrial applications. Our rotary vane vacuum product line provides more capacity with lower installed power than other oil-lubricated pumps. The Champion rotary vane vacuum pump is available in sizes from 1–25 horsepower or 1.6–72.8 SCFM at 24" Hg.

The ultimate vacuum can be selected for fine gauge or coarse vacuum. Fitted as standard with fine mesh filter, vacuum non-return valve and oil separator, the Champion vacuum unit is very quiet running.

- ▶ 5 Year Rotary Vane Warranty



HP	Tank Gallons	19" Hg	24" Hg
1	80	4.0	1.6
1.5	80	6.4	2.5
2	80	10.0	3.8
3	80	19.2	7.7
5	120	27.6	11.0
5	120	39.6	15.2
7.5	240	53.6	21.3
10	240	80.0	31.7
15	240	108.4	42.0
20	240	144.4	57.3
25	240	184.4	72.8

Additional configurations including oil-free packages available

Reciprocating Pumps

SINGLE AND TWO STAGE

You can run a Champion pump in the most demanding applications. Champion pumps are designed to provide dependable service for heavy-duty industrial and commercial applications. Single stage pumps are typically used for pressures up to 125 lbs and two-stage are available up to 250 lbs.



- ▶ Large Intake Filter Elements
- ▶ Splash and Pressure Lubricated Pumps
- ▶ Multi-finned Cylinders
- ▶ Multi-Finned Intercooler
- ▶ Balanced Pistons
- ▶ Pressure Relief Valves
- ▶ Fan Bladed Flywheel
- ▶ Reliable High Flow Valves
- ▶ Balanced Crankshaft
- ▶ Oil Level Site Glass
- ▶ Larger Main Roller Bearings
- ▶ 1 Year Pump Warranty When Used as Replacement

Model	HP	Stage	Bore & Stroke Inches	Number Cylinders	Net Weight
S20	3-5	1	3¾ (2) x 3	2	145
S40A	7.5-10	1	3¾ (4) x 3	4	285
R/PL15B	3-7.5	2	4⅝ & 2½ x 3	2	125
R/PL30D	7.5-15	2	4⅝ (2) & 2½ (2) x 3	4	220
R/PL40A	15	2	6¼ & 3¼ x 4½	2	440
R/PL70A	20-30	2	6¼ (2) & 3¼ (2) x 4	4	570
RV15	5-7.5	2	4⅝ & 2½ x 3	2	135
RV30	10-15	2	4⅝ (2) & 2½ (2) x 3	4	245
VP20	5	2	3⅝ & 2 x 3¼	2	128

Additional configurations available

Rotary Screw

STATIONARY

- ▶ Heavy Duty Inlet Filter
- ▶ Easy Access Air/Oil Separator
- ▶ Heavy Duty Radiator/Oil Aftercooler
- ▶ Efficient, Single Stage Airends
- ▶ Thermostatic Mixing Valve
- ▶ Small, Compact Foot Print
- ▶ Pressure Relief Valve
- ▶ OSHA Approved Drive Guard
- ▶ Factory Filled With RotorLub Lubricants
- ▶ Microprocessor Controls
- ▶ Two Year Warranty on Airend
- ▶ Available in 200/230/460 Volts
- ▶ Optional ASME Receivers:
5–10 HP, 80 gallon and
15–20 HP, 120 gallon

Champion Rotary Screw air compressors were designed to allow easy access to service points, small footprint and reduced noise level. The airends have been engineered and are manufactured in house to exacting standards.



Model	HP	ACFM @ 100	Net Weight	Dimensions L x W x H
RC5	5	21	315	26 x 27 x 34
RC7.5	7.5	29	322	26 x 27 x 34
RC10	10	40	330	26 x 27 x 34
RC15	15	57	411	28 x 30 x 41
RC20	20	84	463	28 x 30 x 41
EFC99G	25	106	1210	48 x 30 x 66
EFC99G	30	127	1280	48 x 30 x 66
EFD99G	40	182	1419	55 x 32 x 69
EFD99G	50	225	1474	55 x 32 x 69
ERF99B	60	268	2633	90 x 55 x 60
ERF99B	75	360	2862	90 x 55 x 60
ERH99D	100	482	3292	90 x 55 x 60

Compressed Air Dryers

STATIONARY

Champion refrigerated air dryers are built with select heat exchanger arrangements to ensure you get the right combination of value and efficiency in every size. Quality components and engineering excellence meld to ensure you of a stable 38° F pressure dew point drop.

- ▶ Solid Steel Fabrication
- ▶ Corrosion Resistant Epoxy Powder Coat Paint
- ▶ Easy Access and Installation
- ▶ Refrigeration Compressors
- ▶ Stainless Steel Heat Exchangers
- ▶ Grade B Two Stage Cold Filtration
- ▶ Intelligence Control
- ▶ Lifetime Warranty on Heat Exchanger
- ▶ Easy to Service and Maintain



Model	Rated Flow	Connections	Voltage	Net Weight
CRN10A-1	10	¾ OD	115/208/230/1	64
CRN15A-1	15	¾ OD	115/208/230/1	69
CRN25A-1	25	½ NPT	115/208/230/1	142
CRN35A-1	35	½ NPT	115/208/230/1	146
CRN50A-1	50	½ NPT	115/208/230/1	152
CRN75A-1	75	¾ NPT	115/208/230/1	209
CRN100A-1	100	¾ NPT	115/208/230/1	228
CRN150A-1	150	1 NPT	115/208/230/1	244
CRN150A-4	150	1 NPT	460/3	244
CRN200A-3	200	1½ NPT	208/230/3	410
CRN200A-4	200	1½ NPT	460/3	410

Additional types available

Nitrogen Advantage

STATIONARY

BENEFITS OF NITROGEN

Increases Fuel Efficiency – Correct tire pressure keeps the OEM's recommended "contact patch" to the road. This lessens the rolling resistance and maximizes fuel efficiency.

Longer Tire Life – When oxygen comes into contact with other materials, it causes oxidation. In addition, at high temperatures and pressures, oxygen reacts and damages inner tire liners and belt packages; nitrogen does not.

Rim rust is eliminated – Nitrogen is completely dry and produces no condensation which causes rim rust.

Improved TPMS Performance – If you have a new car, you will likely see a flashing light telling you that your tire pressure is low. After inflating with nitrogen, you should see a major improvement with the light reappearing.

Visit www.getnitrogen.org for more information about Nitrogen.

The air we breathe is 78% nitrogen, 21% oxygen and the rest is small amounts of other gases. When it comes to tires however, oxygen is not good. Nitrogen in tires, instead of "plain old air" maximizes the vehicles handling, fuel efficiency and tire life. The improved handling, fuel economy and cooler tire temperature are a result of better tire pressure retention.



Model	Compressed Air Input	Nitrogen Output	N ₂ Purity	Tank Size Gallons (V)
NA6-3P	7.8 SCFM	4 SCFM	95–99.9%	30
NA4-6	8 SCFM	4 SCFM	95–99.9%	60
NA7-8	14 SCFM	7 SCFM	95–99.9%	80
NA14-8	28 SCFM	14 SCFM	95–99.9%	80

Aftermarket/Parts

SERVICE KITS

Service kits include enough lubricant, air filters, and oil filters (where applicable) for one complete service. Champion recommends that regular service be completed on its pumps for maximum operating efficiency.

Part #	Description
Z11886	VP10 Pump
Z11887	VP20 Pump
Z11888	VP40 Pump
Z11882	R/RV15 Pump
Z11883	R/RV30 Pump
Z11884	R40 Pump
Z11885	R70 Pump
Z11888	PL15 Pump
Z11889	PL30 Pump
Z11890	PL40 Pump
Z11891	PL70 Pump

Additional kits available



FRL'S Filter/Regulator/Lubricator

The Champion CF Series filters incorporate our deep bed 5 micron element as standard. Champion industrial duty particulate filters are designed for the removal of solid contaminants down to 5 micron and the separation of bulk liquids. The all metal body construction will give years of trouble-free operation.

Part #	Description
CF00-02-M00	¼", 35 SCFM Max Flow
CF16-02-GD0	¼", 63 SCFM Max Flow
CF16-03-G00	⅜", 74 SCFM Max Flow
CF16-04-G00	½", 80 SCFM Max Flow
CF25-04-G00	½", 150 SCFM Max Flow
CF30-06-G00	¾", 323 SCFM Max Flow
CF30-08-G00	1", 316 SCFM Max Flow

Additional types available



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Member

