

R & PL SERIES

1.5—30 HORSEPOWER

RECIPROCATING AIR COMPRESSORS



PROVEN DESIGN.

PROVEN DEPENDABILITY.



At Champion, air compressor systems are our only products. We know and understand the application of our products in many different operating environments. Our goal is to provide you with the compressors that fulfill — and exceed — your expectations and requirements.

Because compressed air is an essential utility, dependability is an essential compressor quality. If your compressor goes down, it can hurt your reputation — and your bottom line. Champion reciprocating compressors are proven units, known for their reliability over decades of use. In addition to dependability, you want a compressor that is user-friendly. Champion comes through again, with a wide selection of configurations and options designed for trouble-free operation.

You can't beat a Champion!



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RECIPROCATING AIR COMPRESSORS

CHAMPION RECIPR

PROVEN DESIGN.

Today's Champion Reciprocating Compressors are the product of decades of design and development. In fact, we introduced the first single-stage compressor in 1919 and have continuously improved its design through innovations in materials, production techniques and quality control.



THE CHAMPION ASSEMBLED UNIT WARRANTIES

COMPRESSOR PUMP WARRANTY

Each new Champion Assembled Unit has a five (5) year warranty on the compressor pump only, against defects in materials or workmanship under normal use and service, from the date of installation or sixty-six (66) months from the date of shipment by Champion or a Champion distributor, whichever may occur first.

The five-year extended warranty covers parts and labor and is prorated over the five years as follows:

Year One — 100% coverage

Year Two — 90% coverage

Year Three — 80% coverage

Year Four — 70% coverage

Year Five — 60% coverage

Head valves are warranted for Year One only. Champion makes no warranty on components and/or accessories furnished to Champion by third parties, such as electric motors, gasoline engines and controls. These are warranted only to the extent of the original manufacturer's warranty to Champion. Electric motors must be equipped with thermal overload protection to have warranty consideration.

The extended five-year warranty will apply to ASME air receivers if they are installed on rubber vibro isolator pads or approved equivalent.

NEW!

5 YEAR ELECTRIC MOTOR WARRANTY

Any Champion package purchased after January 1, 2003 built with a Baldor or Toshiba electric motor are warranted for 60 months from start-up or 63 months from shipment. Other manufacturer's motors furnished due to customer request or special requirements carry the motor manufacturer's warranty.

PACKAGE WARRANTY

Champion warrants each new air compressor package to be free from defects in material and workmanship under normal use and service for a period of one year (12 months) from the date of installation or 15 months from the date of shipment by Champion.

LIMITED WARRANTY

Warranty shall not apply to any equipment which has been subjected to misuse, neglect or accident, nor shall it apply to any equipment that has been repaired or altered by any person(s) not authorized by Champion. Failure caused by lack of proper maintenance is not covered by warranty.

In no event shall Champion be liable for consequential damages or contingent liabilities arising out of failure of any compressor or part to operate properly. When a compressor pump or component is changed or replaced during the warranty period, the new/replaced item(s) is warranted for only the remainder of the original warranty period. Complete warranty details are included in compressor operating manual.

SPECIFICATIONS

SPLASH & PRESSURE LUBRICATED — VERTICAL TANK (ELECTRIC)

Vertical Tank								125 PSI Rating*			175 PSI Rating*			250 PSI Rating*		
Motor HP	Tank Cap Gal.	Splash R-Series Model	Pump Comp. Model	Pressure PL-Series Model	Pump Comp. Model	L x W x H Dimensions inches	Aprox. Ship Wt. lbs.	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y
1.5	60	VR1-6	R-10D	—	—	32 ¹ / ₂ x 22 ¹ / ₂ x 76 ¹ / ₂	400	575	11.2	6.0	542	10.5	5.3	—	—	—
	80	VR1-8				32 x 24 x 77	425									
2	60	VR2-6				32 ¹ / ₂ x 22 ¹ / ₂ x 76 ¹ / ₂	425	765	14.9	8.3	725	14.1	7.5	—	—	—
	80	VR2-8				32 x 24 x 77	455									
3	60	VR3-6	R-15B	VPL3-6	PL-15	32 ¹ / ₂ x 22 ¹ / ₂ x 76 ¹ / ₂	425	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0
	80	VR3-8		VPL3-8		32 x 24 x 77	485									
	120	VR3-12		VPL3-12		42 ¹ / ₂ x 30 x 80 ¹ / ₂	725									
5	60	VR5-6		VPL5-6		32 ¹ / ₂ x 22 ¹ / ₂ x 76 ¹ / ₂	455	805	23.5	19.1	710	20.7	16.5	640	18.6	13.6
	80	VR5-8		VPL5-8		33 x 24 x 77	535									
	120	VR5-12		VPL5-12		42 ¹ / ₂ x 30 x 82	765									
7 ¹ / ₂	80	VR7F-8	VPL7F-8	33 x 24 x 77	570	1035	29.9	24.6	1035	29.9	23.5	940	27.4	19.4		
	120	VR7F-12	VPL7F-12	42 ¹ / ₂ x 30 x 82	800											
	80	VR7-8	R-30D	VPL7-8	42 ¹ / ₂ x 30 x 82										665	670
120	VR7-12	R-15B	VPL7-12	46 ³ / ₈ x 30 x 82	800											
10	80	VR10-8	R-30D	VPL10-8	42 ¹ / ₂ x 30 x 66 ³ / ₄	860	810	48.5	37.3	740	43.1	34.8	640	37.1	27.5	
	120	VR10-12	VPL10-12	46 ³ / ₈ x 30 x 80 ³ / ₄	890											
15	120	VR15F-12	PL-40	—	—	46 ³ / ₈ x 30 x 80 ³ / ₄	890	1045	63.5	50.2	1045	63.5	49.0	900	52.5	42.6

NOTE: Pressure lubricated units are capable of 250 PSIG operation.

SPLASH & PRESSURE LUBRICATED — TWO-STAGE (ENGINE DRIVEN)

Motor HP	Tank Cap Gal.	Splash R-Series Model	Pump Comp. Model	Pressure PL-Series Model	Pump Comp. Model	L x W x H Dimensions inches	Splash Aprox. Ship Wt. lbs.	Pressure Aprox. Ship Wt. lbs.	175 PSI Rating**			250 PSI Rating**		
									RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y
8	30	HGR3-3	R-15B	HGPL3-3	PL-15	38 x 22 ³ / ₄ x 45	345	345	600	17.9	14.3	—	—	—
***1	30	HGR5-3		HGPL5-3		38 x 22 ³ / ₄ x 45 ¹ / ₂	409	450						
	8	HGR5-LP		HGPL5-LP		39 ⁷ / ₈ x 21 ⁹ / ₁₆ x 34 ³ / ₄	404	445						
	—	BGR5		BGPL5		36 ¹ / ₂ x 21 x 28 ³ / ₄	279	320						
	60	HGR5-6H		HGPL5-6H		32 ¹ / ₂ x 21 x 48	475	514						
	80	HGR5-8		HGPL5-8		66 ¹ / ₂ x 21 x 51	514	555						
	30	HGR6-3		HGPL6-3		38 x 22 ³ / ₄ x 45 ¹ / ₂	399	440	1025	29.9	23.2	—	—	15.5
60	HGR6-6K	HPL6-6H		32 ¹ / ₂ x 21 x 48		475	514							
80	HGR6-8	HGPL6-8	66 ¹ / ₂ x 21 x 51	514	555									
—	BGR6	BGPL-6	40 x 21 x 29 ¹ / ₄	279	279									
20	80	HGR10-8	R-30D	HGPL10-8	PL-30	66 ¹ / ₂ x 21 x 49 ³ / ₄	715	715	765	44.6	34.4	—	—	—
23	5	BGR-12	BGPL-12	46 x 28 x 35 ⁵ / ₈		645	645	940	55.0	39.5	—	—	—	
27	4 (2)	BDRA-15	R-40A	BDPL-15	PL-40	52 x 29 x 42	813	813	910	72.8	59.0	—	—	—
30	5	BGRA-15		BGPLA-15		63 x 41 x 49	1075	1075						
*10	30	HDR5-3	R-15B	HDPL-15	PL-15	38 x 32 x 46	500	500	710	20.7	16.5	650	18.9	13.6
	—	BDR5		BDPL-5		38 ³ / ₄ x 21 x 29 ³ / ₄	493	493				—	—	—

NOTE: Pressure lubricated units are capable of 250 PSIG operation. *Diesel Driven **Units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC3. ***Honda Engine Only

SPLASH & PRESSURE LUBRICATED — BASE MOUNT (ELECTRIC)

Motor HP	Splash R-Series Model	Pump Comp. Model	Pressure PL-Series Model	Pump Comp. Model	L x W x H Dimensions inches	Aprox. Ship Wt. lbs.	125 PSI Rating*			175 PSI Rating*			250 PSI Rating*			
							RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	
1½	BR-1	R-10D	—	—	29½ x 21 x 29¼	205	575	11.2	6.0	542	10.5	5.3	—	—	—	
2	BR-2		—				205	765	14.9	8.3	725	14.1	7.5	—	—	—
3	BR-3	R-15B	BPL-3	PL-15	30¾ x 21 x 29¼	230	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0	
5	BR-5		BPL-5				280	805	23.5	19.1	710	20.7	16.5	640	18.6	13.6
7½	BRF-7		BPL-7F				310	1035	29.9	24.6	1035	29.9	23.5	940	27.4	19.4
7½	BR-7	R-30D	BPL-7	PL-30	42¾ x 22½ x 28¾ ¹⁶	430	670	39.6	30.0	575	33.5	25.8	520	30.2	21.3	
10	BR-10		BPL-10				540	810	48.5	37.3	740	43.1	34.8	640	37.1	27.5
15	BRF-15	R-40A	BPL-15F	PL-40	49½ x 26¼ x 38	550	1045	63.5	50.2	1045	63.5	49.0	900	52.5	42.6	
15	BRA-15		BPL-15				730	890	71.1	59.0	770	61.5	53.7	700	55.9	45.8
20	BRA-20	R-70A	BPL-20	PL-70	53 x 27½ x 39½	1000	770	109.0	91.9	655	93.0	76.7	545	77.4	64.1	
25	BRA-25		BPL-25				1020	890	127.8	102.1	770	109.4	90.1	660	93.7	76.8
30	BRA-30		BPL-30				1059	890	127.0	102.1	890	127.0	101.1	770	109.4	90.0

SPLASH & PRESSURE LUBRICATED — TANK-MOUNTED DUPLEX UNITS (ELECTRIC)

Motor HP	Tank Cap Gal.	Splash R-Series Model	Pump Comp. Model	Pressure PL-Series Model	Pump Comp. Model	L x W x H Dimension inches	Aprox. Ship Wt. lbs.	125 PSI Rating*			175 PSI Rating*			250 PSI Rating*		
								RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y
3 (2)	80	HR3D-8	R-15B	—	—	67½ x 28½ x 50¼	725	485	28.2	21.8	440	25.6	19.4	—	—	—
	120	HR3D-12		—		91¾ x 26½ x 48¾	950	485	28.2	21.8	440	25.6	19.4	—	—	—
5 (2)	80	HR5D-8	R-15B	HPL5D-8	PL-15	67½ x 28½ x 50¼	755	805	47.0	38.2	710	41.4	33.0	640	37.2	27.2
	120	HR5D-12		HPL5D-12		91¾ x 26½ x 48¾	980	805	47.0	38.2	710	41.4	33.0	640	37.2	27.2
7½ (2)	250	HR7D-12	R-30D	HPL7D-12	PL-30	91¾ x 26½ x 50¼	1305	670	79.2	60.0	575	67.0	51.6	520	60.4	42.6
		HR7DF-25	R-15B	HPL7DF-25	PL-15	87½ x 32 x 64	1485	1035	59.8	49.2	1035	59.8	47.0	940	54.8	38.8
10 (2)	250	HR7D-25	R-30D	HPL7D-25	PL-30		87½ x 32 x 64	1675	670	79.2	60.0	575	67.0	51.6	520	60.4
		HR10D-25		HPL10D-25		1725		810	97.0	74.6	740	86.2	69.6	640	74.2	55.0
15 (2)	250	HR15DF-25	R-40A	HPL15DF-25	PL-40	88½ x 55 x 73½	1860	1045	127.0	100.4	1045	127.0	98.0	900	105.0	85.2
20 (2)		HRA15D-25		HPL15D-25			2460	890	142.2	118.0	770	123.0	107.4	700	111.8	91.6
20 (2)	250	HRA20D-25	R-70A	HPL20D-25	PL-70	88½ x 62 x 74¾	2845	770	218.0	183.8	655	186.0	153.4	545	154.8	128.2
25 (2)		HRA25D-25		HPL25D-25			2940	890	255.6	204.2	770	218.8	180.2	660	187.4	153.6
30 (2)	250	HR30D-25	R-70A	HPL30D-25	PL-70	88½ x 62 x 74¾	3018	890	255.6	204.2	890	255.6	202.0	770	218.8	180.0

R/PL-SERIES/BARE PUMPS

Motor HP	Splash Comp. Model	Pressure Comp. Model	Displ./Rev (cu. ft.)	125 PSIG Rating*		175 PSIG Rating*		250 PSIG Rating*		Bores in. dia.	Stroke in.	No. cyl.	Oil Cap. qts.	Max. Oper Pressure (PSIG)	Aprox. Ship Wt. lbs.
				RPM	CFM Del'y	RPM	CFM Del'y	RPM	CFM Del'y						
1½	R-10D	—	.01942	575	6.0	542	5.3	—	—	4⅝ & 2½	2	2	2	175	125
2				765	8.3	725	7.5	—	—						
3	R-15B	PL-15A	.02916	497	11.8	440	9.7	380	8.0	4⅝ & 2½	3	2	2	175	125
5				805	19.1	710	16.5	640	13.6						
7½				1035	24.6	1035	23.5	940	19.4						
10	R-30D	PL-30A	.05828	670	30.0	575	25.8	520	21.3	4⅝ & 2½	3	4	4	175	220
15				810	37.3	740	34.8	640	27.5						
15	R-40A	PL-40A	.0800	890	59.0	770	53.7	700	45.8	6¼ & 3¼	4½	2	4	175	440
20	R-70A	PL-70A	.1420	770	91.9	655	76.7	545	64.1						
25				890	102.1	770	90.1	660	76.8						
30				890	102.1	890	101.0	770	90.0						

Note: Pressure Lubricated units are capable of 250 PSIG operation *Units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC2.

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 you maximize the return on your compressor investment.

Backed by solid warranty protection, Champion compressors are supported by a worldwide parts and service network dedicated to returning your compressor to service as quickly as possible.

Champion is now better able than ever to bring you the products, service and know-how that separate the leaders from the rest of the pack. Drawing on decades of experience, we have the products you need to keep you on the cutting edge of productivity and profitability.

Contact your Distributor for the new Reciprocating Compressor Service Kits.



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