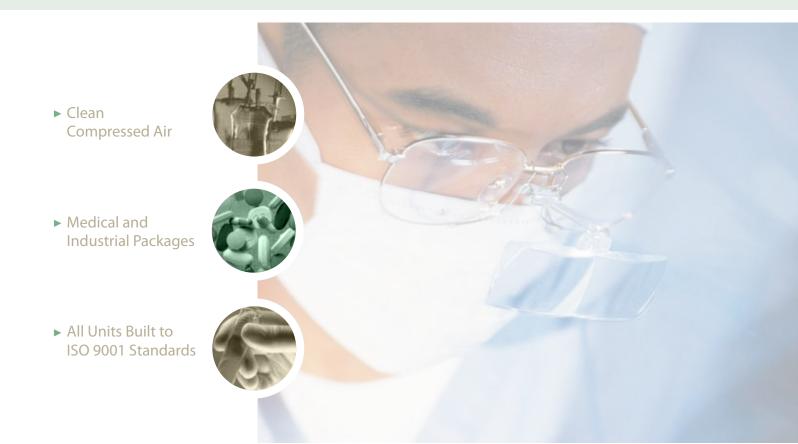
V & W Series

5–15 HP OIL-LESS RECIPROCATING AIR COMPRESSOR SYSTEMS







Always be one.

Oil-Less Air Compressors

NEW TECHNOLOGY CREATES NEW APPLICATIONS

With the perfection of oil-less air technology by Champion, new applications are being developed everyday:

- Medical Complexes
- Laboratories
- Consumer Use
- Waste Water Facilities
- Ozone Generation
- Steel/Coke Processing
- Chemical Processing
- Electronics Production

- Food Processing
- Instrument Manufacturing
- Pharmaceutical Production
- Research Facilities
- Plastics Manufacturing
- Aquariums/SCUBA
- Beverage Dispensing
- Theme Parks
- Aviation

Champion Medical Air Systems meet NFPA99 standard requirements for medical air compressors. NFPA was created in 1896 as a standards making body. Today, over 66,000 fire safety professionals belong to the NFPA, the world's largest and most influential fire safety organization.

NFPA has published almost 300 codes and standards with the mission of preventing the loss of life and property. Topics include fire prevention equipment, extinguishing systems, inspection, residential and commercial dwellings, safety of flammable gases, and the very important National Electrical Code.







The concept is simple: No oil in the compressor equals no oil in the air. All oil, even in the crankcase, is eliminated. The unique design of the V & W Series assures the long life and productivity you've come to expect from Champion.

Champion Meets the Need

The need was already there: Find a reliable way to completely eliminate any oil getting from the compressor into the delivered air stream. Champion met the challenge by applying new technology, new materials and new manufacturing techniques to our compressor design. Internal moving parts in the Champion Oil-less design are protected from wear without conventional lubrication. Crankshaft and rod bearings are lubricated by exclusive sealed, solid synthetic lubricants. Pistons move on alloyed heat-resistant filled PTFE guide and compression rings. The result is low maintenance, high durability and pure, oil-less air!



Clean Compressed Air

Champion has always been at the forefront of air compressor technology. Champion V & W Series oil-less compressors are no exception. We offer 100% duty cycle, sealed antifriction bearings and filled PTFE rings.

Champion's continuing program of product research and development assures that your Champion compressor includes the latest advancements in oil-less technology. We can design and build a system that meets your demand.

MCGUIRE AIR COMPRESSORS

Heart of a Thoroughbred...

Oil-Less Compressed Air Applications

Air that is produced by oil-less compressors is used to drive pneumatic devices in surgical areas, critical care areas, nurseries, operating rooms, intensive care, post operative care, emergency rooms and hyperbaric chambers.

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
- Vibro-Isolators
- 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 Gauges

Leading Edge Technology Delivered With Responsive, Local Service

From air intake to end use, Champion can supply all the components and systems needed for your oilless compressor application. We're a complete systems designer, manufacturer, and supplier. When you work with Champion you get the best of both worlds. Utilizing powerful CAD systems, our application engineers will work closely with you to develop specifications and build a system to meet your needs. In turn, all installation and service is handled by locally-based representatives and distributors who are well versed in compressor technology. We maintain a worldwide sales and service network to support this effort.

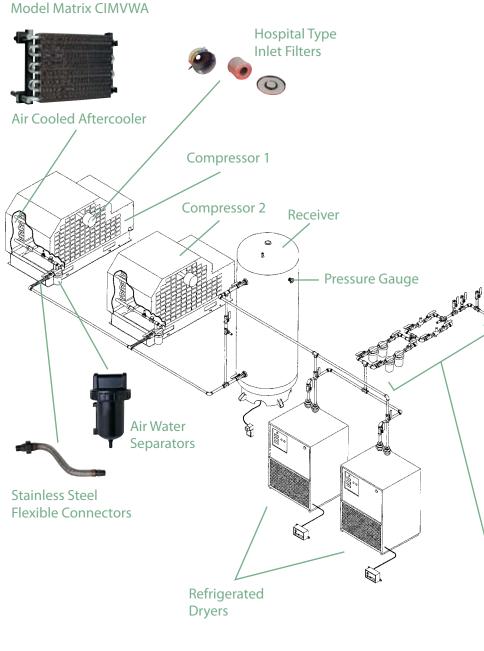
No one else has the experience or scope to design, build and maintain

complete air management systems for medical, institutional and industrial use. Count on Champion to be your single source for oil-less air compressor technology.

All Champion medical air systems meet current NFPA99 standards for health care facilities. Staying abreast of the changing regulations and requirements for medical compressed air systems is a high priority at Champion.

MCGUIRE AIR COMPRESSORS

Our Unique Medical Compressors System





Monitors

Dewpoint Monitor
CO Monitors



We Take a Systems Approach to Your Compressed Air Management Needs

Champion understands that your medical facility's oil-less compressor is part of a more comprehensive air management system. That's why we supply complete air compressor packages that can include air dryers, specialized filter banks, dewpoint/ CO monitor, and complete controls.

Our approach to medical compressor system design is unique. Rather than offering a single, large system, we offer smaller, multiple-compressor units connected to a single air receiver. This energy-saving design means that you have maximum air delivery only when you need it. You have the flexibility of single unit operation alternating between compressors or multiplecompressor operation, depending on air demand.

This redundant design assures that you always have a reliable source of compressed air and the small footprint of our oil-less packages saves valuable floor space and allows for easy installation.

- Filter Bank
- PRV Station
- Bypass Valve

MCGUIRE AIR COMPRESSORS

Compare These Features

UNMATCHED IN THE INDUSTRY!



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, 20,000 hours on main bearings.

100% Duty Cycle

All models are rated for 100%

continuous duty cycle at 100 PSIG for

single-stage units and 175 PSIG for

Operation

two-stage units.

Crankshaft

Cantilevered crankshaft design provides superior balance and long life.



Valves

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





Pistons

Patented design with "Iso-Temp" coating on top to isolate piston, rings and connecting rod bearings from the full heat of compression. Provides exceptional thermal heat barrier for extended ring life - 10,000 hours or more!

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.



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 vibro-isolation springs to absorb all vibration. Meets NFPA guidelines for medical air compressors (Overand-under unit configuration uses elastomeric vibro-isolators).





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.

MCGUIRE AIR COMPRESSORS



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.

1-888-229-9999

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Specifications

Horizontal l	base mou	int, two s	tage, ele	ctric moto	CIBVWA				
Unit Model	Jnit Model HP	Pump	RPM	CFM De	livery*	Bore DIA IN	Stroke IN	Dimensions	WT LBS
Unit Model	nr	Fump		125 PSIG	175 PSIG		Stroke IN	L x W x H IN	WT LDS
5VTR20	5	VTR	1000	16.1	15.8	4.72 & 2.56	1.97	57¼ x 37½ x 37 ³ /8	1035
7VTR20	7.5	VTR	1300	21.4	21.2	4.72 & 2.56	1.97	57¼ x 37½ x 37 ³ /8	1115
10WTR45	10	WTR	1065	36.0	35.4	4.72 & 3.54	1.97	57¼ x 37½ x 37 ³ /8	1155
15WTR45	15	WTR	1450	48.4	48.0	4.72 & 3.54	1.97	57¼ x 37½ x 37 ³ /8	1195

Horizontal base mount, single stage, electric motor driven

	110	CFM Delivery*			Churches (N)	Dimensions	WT LBS			
Unit Model	HP	Pump	RPM	50 PSIG	100 PSIG	Bore DIA IN	Stroke IN	L x W x H IN	VVI LDS	
5VTS35	5	VTS	740	21.7	16.8	4.72	1.97	57¼ x 37½ x 37 ³ /8	1030	
7VTS35	7.5	VTS	1065	31.6	25.9	4.72	1.97	57¼ x 37½ x 37 ³ /8	1105	
10VTS35	10	VTS	1450	43.0	35.2	4.72	1.97	57¼ x 37½ x 37³/8	1120	
15WTS55	15	WTS	1140	69.0	56.5	4.72	2.36	57¼ x 37½ x 37 ³ /8	1180	

CIBVWA

Horizontal tank mount, two stage, electric motor driven CISVWA

				0014	CFM Delivery*			<i>c</i> . 1 11	Dimensions	
Unit Model	HP	Size	Pump	RPM	125 PSIG	175 PSIG	Bore DIA IN	Stroke IN	L x W x H IN	WT LBS
12T5VTR20	5	120	VTR	1000	16.1	15.8	4.72 & 2.56	1.97	69 x 37½ x 67	1480
25T5VTR20	5	250	VTR	1000	16.1	15.8	4.72 & 2.56	1.97	92 x 37½ x 73	1845
12T7VTR20	7.5	120	VTR	1300	21.4	21.2	4.72 & 2.56	1.97	69 x 37½ x 67	1545
25T7VTR20	7.5	250	VTR	1300	21.4	21.2	4.72 & 2.56	1.97	92 x 37½ x 73	1910
12T10WTR45	10	120	WTR	1065	36.0	35.4	4.72 & 3.54	1.97	69 x 37½ x 67	1570
25T10WTR45	10	250	WTR	1065	36.0	35.4	4.72 & 3.54	1.97	92 x 37½ x 73	2145
12T15WTR45	15	120	WTR	1450	48.4	48.0	4.72 & 3.54	1.97	69 x 37½ x 67	1725
25T15WTR45	15	250	WTR	1450	48.4	48.0	4.72 & 3.54	1.97	92 x 37½ x 73	2145

Horizontal tank mount, single stage, electric motor driven CISVWA

Dimensions L x W x H IN Tank Size RPM Pump 50 PSIG **100 PSIG** 12T5VTS35 5 120 VTS 740 21.7 16.8 4.72 1.97 69 x 37½ x 67 1515 25T5VTS35 5 250 VTS 740 21.7 4.72 1.97 92 x 37½ x 73 1875 16.8 69 x 37½ x 67 12T7VTS35 VTS 31.6 1.97 7.5 120 1065 25.9 4.72 1530 25T7VTS35 7.5 250 VTS 1065 31.6 25.9 4.72 1.97 92 x 37½ x 73 1890 12T10VTS35 10 120 VTS 1450 43.0 35.2 4.72 1.97 69 x 37½ x 67 1550 25T10VTS35 10 250 VTS 1450 43.0 35.2 4.72 1.97 92 x 37½ x 73 1910 12T15WTS55 15 120 WTS 1140 69.0 56.5 4.72 2.36 69 x 37½ x 67 1720 25T15WTS55 15 250 WTS 1140 69.0 56.5 4.72 2.36 92 x 37½ x 73 2125

* Units tested in accordance with CAGI/PEUROP acceptance test code PN2CPTC2.

MCGUIRE AIR COMPRESSORS

Vertical two stage, cabinet enclosed, electric motor driven

Unit Model		P Pump RPM CFM Delivery* Bore DIA IN			Chucker INI	Dimensions	WT LBS			
Unit Model	HP	Pump	KPINI	125 PSIG	175 PSIG	Bore DIA IN	Stroke IN	L x W x H IN		
5EVTR20	5	VTR	1000	16.1	15.8	4.72 & 2.56	1.97	40 x 37 x 65 ³ / ₄	1053	
7EVTR20	7.5	VTR	1300	21.4	21.2	4.72 & 2.56	1.97	40 x 37 x 65 ³ / ₄	1058	
10EWTR45	10	WTR	1065	36.0	35.4	4.72 & 3.54	1.97	40 x 37 x 65 ³ / ₄	1096	
15EWTR45	15	WTR	1450	48.4	48.0	4.72 & 3.54	1.97	40 x 37 x 65 ³ / ₄	1244	

CICVWA

Vertical single stage, cabinet enclosed, electric motor driven CICVWA

11			0044	CFM De	elivery*		Churcher INI	Dimensions		
Unit Model	HP	Pump	RPM	50 PSIG	100 PSIG	Bore DIA IN	Stroke IN	L x W x H IN	WT LBS	
5EVTS35	5	VTS	740	21.7	16.8	4.72	1.97	40 x 37 x 65 ³ / ₄	999	
7EVTS35	7.5	VTS	1065	31.6	25.9	4.72	1.97	40 x 37 x 65 ³ / ₄	1004	
10EVTS35	10	VTS	1450	43.0	35.2	4.72	1.97	40 x 37 x 65 ³ / ₄	1040	
15EWTS55	15	WTS	1140	69.0	56.5	4.72	2.36	40 x 37 x 65 ³ / ₄	1180	

Horizontal duplex tank mount, two stage, electric motor driven CIDVWA

		Tank		2214	CFM De	elivery*			Dimensions	
Unit Model	HP	Size GA	Pump	RPM	125 PSIG	175 PSIG	Bore DIA IN	Stroke IN	L x W x H IN	WT LBS
12TD5VTR20	5 (2)	120	VTR	1000	32.2	31.6	4.72 & 2.56	1.97	88¼ x 57¼ x 60½	2575
25TD5VTR20	5 (2)	250	VTR	1000	32.2	31.6	4.72 & 2.56	1.97	84 x 67 x 72	2935
12TD7VTR20	7.5 (2)	120	VTR	1300	42.8	42.4	4.72 & 2.56	1.97	88¼ x 57¼ x 60½	2750
25TD7VTR20	7.5 (2)	250	VTR	1300	42.8	42.4	4.72 & 2.56	1.97	84 x 67 x 72	3110
12TD10WTR45	10 (2)	120	WTR	1065	72.0	70.8	4.72 & 3.54	1.97	88¼ x 57¼ x 60½	2820
25TD10WTR45	10 (2)	250	WTR	1065	72.0	70.8	4.72 & 3.54	1.97	84 x 67 x 72	3220
12TD15WTR45	15 (2)	120	WTR	1450	96.8	96.0	4.72 & 3.54	1.97	88¼ x 57¼ x 60½	3060
25TD15WTR45	15 (2)	250	WTR	1450	96.8	96.0	4.72 & 3.54	1.97	84 x 67 x 72	3480

Horizontal duplex tank mount, single stage, electric motor driven CIDVWA

11.24 04 - 4-1				DDM	CFM Delivery*			Constant IN	Dimensions	
Unit Model	HP	Size GA	Pump	RPM	50 PSIG	100 PSIG	Bore DIA IN	Stroke IN	L x W x H IN	WT LBS
12TD5VTS35	5 (2)	120	VTS	740	43.4	33.6	4.72	1.97	88¼ x 57¼ x 60½	2545
25TD5VTS35	5 (2)	250	VTS	740	43.4	33.6	4.72	1.97	84 x 67 x 72	1875
12TD7VTS35	7.5 (2)	120	VTS	1065	63.2	51.8	4.72	1.97	88¼ x 57¼ x 60½	2760
25TD7VTS35	7.5 (2)	250	VTS	1065	63.2	51.8	4.72	1.97	84 x 67 x 72	3125
12TD10VTS35	10 (2)	120	VTS	1450	86.0	70.4	4.72	1.97	88¼ x 57¼ x 60½	2815
25TD10VTS35	10 (2)	250	VTS	1450	86.0	70.4	4.72	1.97	84 x 67 x 72	3220
12TD15WTS35	15 (2)	120	WTS	1140	138.0	113.0	4.72	2.36	88¼ x 57¼ x 60½	3055
25TD15WTS35	15 (2)	250	WTS	1140	138.0	113.0	4.72	2.36	84 x 67 x 72	3440

* Units tested in accordance with CAGI/PEUROP acceptance test code PN2CPTC2.

MCGUIRE AIR COMPRESSORS

Warranty

Ensuring Dependable Performance

From design... to materials selection... to construction, the Champion team strives for perfection. Knowing the critical necessity for an uninterrupted supply of oil-less compressed air, Champion craftsmen take the extra care needed to ensure trouble-free operation and economical performance. At every step of the manufacturing process, stringent inspection procedures assure accuracy and future dependability. Rigid testing determines if the Champion symbol of excellence can be assigned to the final product. Others have copied, none have equaled, the strict standards established by Champion. Though users have little need for the warranty that backs each Champion product, an extended three year warranty is provided.

Champion Warranty V & W Series Oil-less compressors

Champion warrants each new V & W Series oil-less compressor pump manufactured by Champion to be free from defects in material and workmanship under normal use and service for a period of thirty-six (36) months maximum or specified number of operating hours, whichever may occur first. This applies to the compressor pumps ONLY, excluding head valves which are warranted for the first year only. The unit is warranted for one year after start-up, or 18 months after shipment, whichever occurs first.

Warranty hours for pump components are as follows:

	Compression Rings and Guide Rings	10,000 hours or 3 years
•	Driving Set (sealed ball bearings mounted in connecting rod)	10,000 hours or 3 years
	Piston Set	10,000 hours or 3 years
	Crankshaft Bearing Set	20,000 hours or 3 years
	Reed Valves	5,000 hours or 1 year

5 Year Electric Motor Warranty

The above applies to Champion manufactured compressor units only.

All Units Built to ISO 9001 Standards.



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

