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5—15 HORSEPOWER

DIL-LESS AIR COMPRESSORS



WHEN COMPRESSED AIR

QUALITY COUNTS.







WHE CHAMPIC

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*.



N OIL-LESS AIR IS A NECESSITY... IN OIL-LESS COMPRESSORS DELIVER!

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 and 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. 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 heatresistant filled PTFE guide and compression rings. The result is low maintenance, high durability and pure, oilless 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 anti-friction 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.

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, nursuries, operating rooms, intensive care, post operative care, emergency rooms and hyperbaric chambers.

COMPARE THESE

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

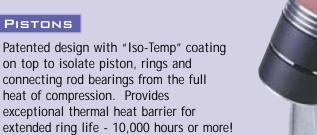


on top to isolate piston, rings and

heat of compression. Provides exceptional thermal heat barrier for

TOTALLY DRY CRANKCASE

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



PISTON RINGS

PISTONS

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.



CRANKSHAFT

Cantilevered crankshaft design provides superior balance and long life.



EART OF A THOROUGHBRED... E FEATURES-UNMATCHED IN THE INDUSTRY!



100% DUTY CYCLE OPERATION

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

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.



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





VALVES

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



BEARINGS

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

THERE'S A CHAMPION OIL-LESS FOR YOUR APPLICATION!

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Whatever your needs are,

Champion can fabricate a system to meet them. Stacking or common-base models, special panels and other options are available for customized systems and configurations.

Shown are just a few of the many models of oil-less compressors available.

STACKED DUPLEX MOUNTED MEDICAL AIR SYSTEM



HORIZONTAL TANK-MOUNTED DUPLEX COMPRESSOR SYSTEM



VERTICAL CABINET-ENCLOSED SIMPLEX COMPRESSOR SYSTEM

(sound attenuated units available)

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 oil-less 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.

OUR UNIQUE

HOSPITAL TYPE INLET FILTERS

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AIR WATER SEPARATORS



AIR COOLED AFTERCOOLER

STAINLESS STEEL Flexible Connectors

MEDICAL COMPRESSORS SYSTEM

We Take a Systems Approach to Your Compressed Air Management Needs

Champion understands that your medical facility's oil-less

management system. That's why we supply complete air

compressor is part of a more comprehensive air

compressor packages that can include air dryers, specialized filter banks, dewpoint/CO monitor, and complete controls. COMPRESSOR 1 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 COMPRESSOR 2 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 multiple-compressor operation, depending on air demand. This redundant design assures that you always have a RECEIVER reliable source of compressed air and the small footprint of 0 our oil-less packages saves valuable floor space and allows for easy installation. Ø PRESSURE GAUGE Filter Bank **PRV** Station Bypass Valve M MONITORS Dewpoint Monitor CO Monitors **REFRIGERATED DRYERS**

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SPECIFICATIONS

Horizontal base m	nount, two st	age, electri	c motor arive	CFM Del	livery*	Bore		Dimensions				
Model	HP	Pump	RPM	125 PSIG	175 PSIG	DIA IN	Stroke IN	L x W x H IN	WT LBS			
5VTR20	5	VTR	1000	16.1	15.8	4.72 & 2.56	1.97	57¼X37½X37¾	1035			
7VTR20	7.5	VTR	1300	21.4	21.2	4.72 & 2.56	1.97	57¼X37½X37¾	1115			
10WTR45	10	WTR	1065	36.0	35.4	4.72 & 3.54	1.97	57¼X37½X37¾	1155			
15WTR45	15	WTR	1450	48.4	48.0	4.72 & 3.54	1.97	57¼x37½x37¾	1195			
Horizontal base m	Horizontal base mount, single stage, electric motor driven											

Unit				CFM D	elivery*	Bore		Dimensions	
Model	HP	Dump	RPM	50 PSIG	100 PSIG	DIA IN	Stroke IN	L x W x H IN	WT LBS
	ΠP	Pump	RPIVI	50 PSIG	100 PSIG	DIA IN	Stroke IN		WI LDS
5VTS35	5	VTS	740	21.7	16.8	4.72	1.97	57¼X37½X37¾	1030
7VTS35	7.5	VTS	1065	31.6	25.9	4.72	1.97	57¼X37½X37%	1105
10VTS35	10	VTS	1450	43.0	35.2	4.72	1.97	57¼X37½X37¾	1120
15WTS55	15	WTS	1140	69.0	56.5	4.72	2.36	57¼X37½X37¾	1180

Horizontal tank mount, two stage, electric motor driven

Unit		Tank			CFM [Delivery*	Bore		Dimensions	WT
Model	HP	Size	Pump	RPM	125 PSIG	175 PSIG	DIA IN	Stroke IN	LxWxH IN	LBS.
12T5VTR20	5	120	VTR	1000	16.1	15.8	4.72 & 2.56	1.97	69X37½X67	1480
25T5VTR20	5	250	VTR	1000	16.1	15.8	4.72 & 2.56	1.97	92X37½X73	1845
12T7VTR20	7.5	120	VTR	1300	21.4	21.2	4.72 & 2.56	1.97	69X37½X67	1545
25T7VTR20	7.5	250	VTR	1300	21.4	21.2	4.72 & 2.56	1.97	92X37½X73	1910
12T10WTR45	10	120	WTR	1065	36.0	35.4	4.72 & 3.54	1.97	69X37½X67	1570
25T10WTR45	10	250	WTR	1065	36.0	35.4	4.72 & 3.54	1.97	92X37½X73	2145
12T15WTR45	15	120	WTR	1450	48.4	48.0	4.72 & 3.54	1.97	69X37½X67	1725
25T15WTR45	15	250	WTR	1450	48.4	48.0	4.72 & 3.54	1.97	92X37½X73	2145

Horizontal tank mount single stage, electric motor driven

Unit		Tank			CFM [Delivery*	Bore		Dimensions	WT
Model	HP	Size	Pump	RPM	50 PSIG	100 PSIG	DIA IN	Stroke IN	LxWxH IN	LBS.
12T5VTS35	5	120	VTS	740	21.7	16.8	4.72	1.97	69X37½X67	1515
25T5VTS35	5	250	VTS	740	21.7	16.8	4.72	1.97	92X37½X73	1875
12T7VTS35	7.5	120	VTS	1065	31.6	25.9	4.72	1.97	69X37½X67	1530
25T7VTS35	7.5	250	VTS	1065	31.6	25.9	4.72	1.97	92X37½X73	1890
12T10VTS35	10	120	VTS	1450	43.0	35.2	4.72	1.97	69X37½X67	1550
25T10VTS35	10	250	VTS	1450	43.0	35.2	4.72	1.97	92X37½X73	1910
12T15WTS55	15	120	WTS	1140	69.0	56.5	4.72	2.36	69X37½X67	1720
25T15WTS55	15	250	WTS	1140	69.0	56.5	4.72	2.36	92X37½X73	2125

Vertical two stage, cabinet enclosed, electric motor driven

Unit				CFM De	livery*	Bore		Dimensions	
Model	HP	Pump	RPM	125 PSIG	175 PSIG	DIA IN	Stroke IN	L x W x H IN	WT LBS.
5EVTR20	5	VTR	1000	16.1	15.8	4.72 & 2.56	1.97	40X37X65¾	1053
7EVTR20	7.5	VTR	1300	21.4	21.2	4.72 & 2.56	1.97	40X37X65¾	1058
10EWTR45	10	WTR	1065	36.0	35.4	4.72 & 3.54	1.97	40X37X65¾	1096
15EWTR45	15	WTR	1450	48.4	48.0	4.72 & 3.54	1.97	40X37X65¾	1244

Vertical single stage, cabinet enclosed, electric motor driven

Unit				CFM Del	ivery*	Bore		Dimensions	
Model	HP	Pump	RPM	50 PSIG	100 PSIG	DIA IN	Stroke IN	L x W x H IN	WT LBS.
5EVTS35	5	VTS	740	21.7	16.8	4.72	1.97	40X37X65¾	999
7EVTS35	7.5	VTS	1065	31.6	25.9	4.72	1.97	40X37X65¾	1004
10EVTS35	10	VTS	1450	43.0	35.2	4.72	1.97	40X37X65¾	1040
15EWTS55	15	WTS	1140	69.0	56.5	4.72	2.36	40X37X65¾	1180

Horizontal duplex	Horizontal duplex tank mount, two stage, electric motor driven														
11-14		Taralı			CFM Delivery*		Dava		Dimensione	WT					
Unit		Tank			105 0010	175 0010	Bore		Dimensions	WT					
Model	HP	Size GA	Pump	RPM	125 PSIG	175 PSIG	DIA IN	Stroke IN	LxWxH IN	LBS.					
12TD5VTR20	5 (2)	120	VTR	1000	32.2	31.6	4.72 & 2.56	1.97	88¼X57¼X60½	2575					
25TD5VTR20	5 (2)	250	VTR	1000	32.2	31.6	4.72 & 2.56	1.97	84X67X72	2935					
12TD7VTR20	7.5 (2)	120	VTR	1300	42.8	42.4	4.72 & 2.56	1.97	88¼X57¼X60½	2750					
25TD7VTR20	7.5 (2)	250	VTR	1300	42.8	42.4	4.72 & 2.56	1.97	84X67X72	3110					
12TD10WTR45	10 (2)	120	WTR	1065	72.0	70.8	4.72 & 3.54	1.97	88¼X57¼X60½	2820					
25TD10WTR45	10 (2)	250	WTR	1065	72.0	70.8	4.72 & 3.54	1.97	84X67X72	3220					
12TD15WTR45	15 (2)	120	WTR	1450	96.8	96.0	4.72 & 3.54	1.97	88¼X57¼X60½	3060					
25TD15WTR45	15 (2)	250	WTR	1450	96.8	96.0	4.72 & 3.54	1.97	84X67X72	3480					

WT

2545 2910

2760 3125

2815 3220 3055

3440

LBS

LxWxH IN

84X67X72

84X67X72

Horizontal duplex tank mount, single stage, electric motor driven CFM Delivery* Unit Tank Bore Dimensions Size GA 120 250 HP Pump VTS VTS 50 PSIG 100 PSIG RPM DIA IN Stroke IN Model 12TD5VTS35 25TD5VTS35 740 740 33.6 33.6 88¼X57¼X60½ 5 (2) 5 (2) 4.72 4.72 1.97 43.4 43.4 1.97 120 250 120 250 120 12TD7VTS35 25TD7VTS35 7.5 (2) VTS VTS 63.2 63.2 86.0 51.8 51.8 4.72 1.97 1.97 1065 88¼X57¼X60½ 1065 25TD7VTS35 12TD10VTS35 25TD10VTS35 12TD15WTS35 10 (2) 10 (2) 10 (2) 15 (2) VTS VTS 70.4 70.4 113.0 1450 4.72 1.97 1.97 88¼X57¼X60½ 86.0 138.0 84X67X72 88¼X57¼X60½ 1450 4.72 2.36 WTS 1140 4.72 25TD15WTS35 15 (2) 250 WTS 1140 138.0 113.0 4.72 2.36 84X67X72

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



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 DIL-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
- Driving Set (sealed ball bearings mounted in connecting rod)
- Piston Set
- Crankshaft Bearing Set
- Reed Valves

The above applies to Champion manufactured compressor units only.

EXPRESS LIMITED WARRANTY

Champion makes no warranty with respect to components and accessories furnished to Champion by third parties such as electric motors, aftercoolers, control panels, air receivers, etc. These components and accessories are warranted only to the extent of the original manufacturer's warranty to Champion.

When a compressor pump or component is changed or replaced during the warranty period, the new/replaced item is warranted for only the remainder of the original warranty period. Replacement parts purchased during the normal operation of the unit for non-warranted replacement due to normal wear and tear, are warranted against defects in material and workmanship for a period of ninety (90) days.

Repair, replacement or refund in the manner and within the time provided shall constitute Champion's sole liability and your exclusive remedy resulting from any nonconformity or defect. Champion shall not in any event be liable for any damages, whether based on contract, warranty, negligence, strict liability or otherwise, including without limitation any consequential, incidental or special damages, arising with respect to the equipment or its failure to operate, even if Champion has been advised of the possibility thereof.

10,000 hours or 3 years

10,000 hours or 3 years

10,000 hours or 3 years

20,000 hours or 3 years

5,000 hours or 1 year

Champion makes no other warranty or representation of any kind, except that of title, and all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, are hereby expressly disclaimed. No salesman or other representative of Champion has the authority to make any warranties.

Warranty periods are from date of start-up by the distributor or customer at his place of business. If any extended period of storage prior to start-up is expected, it is the responsibility of the customer or Distributor to so advise Champion's Service Department of the expected storage time prior to start-up. If this is longer than six (6) months it must be advised in writing and approved by Champion's Service Department of the expected storage time prior to start-up.



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







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