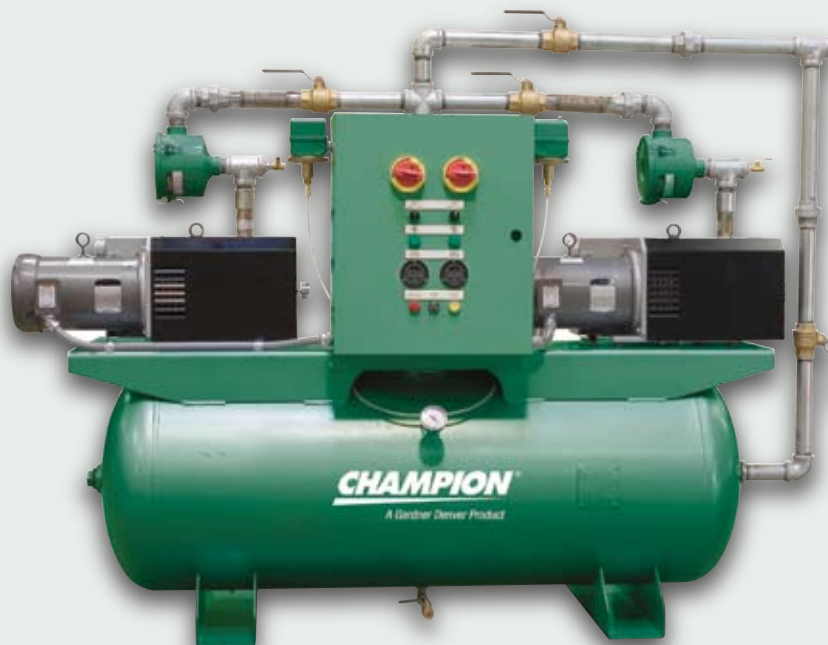
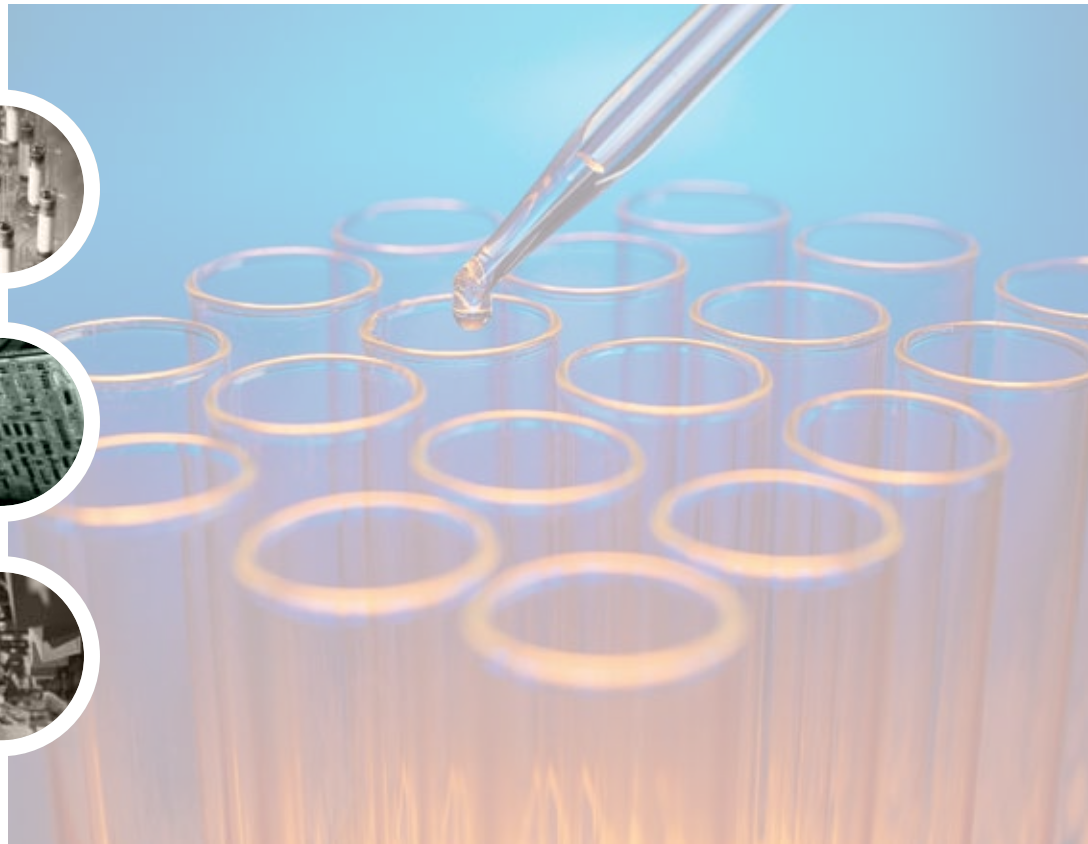
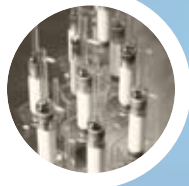


Multi-Claw Vacuum Pump Systems

OIL-FREE

- ▶ Paper Handling and Converting
- ▶ Laboratory & Medical Central Systems
- ▶ Pharmaceutical Production/R & D
- ▶ Packaging & Processing
- ▶ Industrial



CHAMPION[®]

A Gardner Denver Product

Always be one.

Multi-Claw Vacuum Systems

OIL-FREE

The Champion Multi-Claw Oil Free vacuum pumps and compressors utilize a highly evolved, optimized claw design for dry, frictionless compression – efficiently and economically. Since there is no contact or friction within the pumping chamber, no oil or lubrication is required, and pumps continue running reliably for years with infrequent and simple maintenance. The Champion Multi-Claw vacuum pumps and compressors utilize internal compression, so they are extremely efficient.

The Champion Multi-Claw pumps use a matched pair of ductile iron claws, which rotate within a cast iron pumping chamber. No valves are required, since the claws themselves cover inlet and discharge ports as they rotate.

A Wider Pressure Range

The Multi-Claw is able to reach much higher pressure than other brands, when used in vacuum or pressure service.

- ▶ Vacuum to 25.5" HgV
- ▶ Pressure to 32 psig

The Champion Multi-Claw vacuum pump uses two non-contacting claw rotors, which operate without friction or lubrication. Multi-Claws are synchronized by heavy duty precision timing gears and are separated from the pumping chamber by special seals. If desired, seals can be pressurized by adding a sealing gas. A gas-tight, shock resistant version is also available. No inlet or discharge valves are required, which further enhances dependability.



The dry, contactless design of the Multi-Claw means that no lubrication is required in the pumping chamber. Oil and sealing water are not required, eliminating pollution, product contamination, and other serious environmental issues.

Champion Multi-Claw models that are 300 and smaller have short shaft lengths with low deflection, thus making reliable, overhung design a reality. The physical size of the model 400 and larger dictates bearing support at both ends to insure equal reliability. All Multi-Claw designs share the following advantages:

- ▶ Maximum reliability
- ▶ Compact size
- ▶ Low maintenance
- ▶ Fewer parts and seals
- ▶ Easy to service

Options

For maximum noise attenuation, inlet or exhaust silencers are available. Multiple Claw pumps can be placed inside a packaged cabinet, for a clean and quiet installation.



Applications

Some of the applications that are suited to the Multi-Claw line are:

- ▶ Pneumatic conveying
- ▶ Environmental engineering
- ▶ Compression of process gas
- ▶ Medical technology
- ▶ Electronics industry
- ▶ Packing industry
- ▶ Food technology
- ▶ Centralized systems

Specifications

- ▶ Ductile steel rotors mounted inside a cast iron housing
- ▶ Timing of rotors is maintained by an oil splash lubricated gear set
- ▶ Rotors are coated with Mos2 lubrication varnish
- ▶ Vacuum relief, check and manual isolation valves are provided with each pump
- ▶ Discharge temperature shall not exceed 325° F when handling 68° F ambient air
- ▶ Equipped as standard with a TEFC electric motor operating at less than 3600 RPM
- ▶ C Faced mounting and flexible connectors on the motor
- ▶ 208-230-460-575/3/60 single connection power supply

Specifications

OIL-FREE SIMPLEX UNITS

Industrial Model Number	Medical Model Number	HP	Tank Gallons	scfm @ 19" Hg	scfm @ 24" Hg
CGIVA3PKG	CGMVA3PKG	3	120	23.4	11.8
CGIVA7PKG	CGMVA7PKG	7.5	240	53.3	27.9
CGIVA7PKG	CGMVA7PKG	7.5	240	69.3	35.6
CGIVA10PKG	CGMVA10PKG	10	240	89.4	NA
CGIVA15PKG	CGMVA15PKG	15	240	118.6	NA

OIL-FREE DUPLEX UNITS

Industrial Model Number	Medical Model Number	HP	Tank Gallons	scfm @ 19" Hg	scfm @ 24" Hg
CGIVA3PKG	CGMVA3PKG	3	120	46.8	23.6
CGIVA7PKG	CGMVA7PKG	7.5	240	106.6	55.8
CGIVA7PKG	CGMVA7PKG	7.5	240	138.6	81.2
CGIVA10PKG	CGMVA10PKG	10	240	178.8	NA
CGIVA15PKG	CGMVA15PKG	15	240	237.2	NA

OIL-FREE TRIPLEX UNITS

Industrial Model Number	Medical Model Number	HP	Tank Gallons	scfm @ 19" Hg	scfm @ 24" Hg
CGIVA3PKG	CGMVA3PKG	3	120	70.2	35.4
CGIVA7PKG	CGMVA7PKG	7.5	240	159.9	83.7
CGIVA7PKG	CGMVA7PKG	7.5	240	207.9	106.8
CGIVA10PKG	CGMVA10PKG	10	240	268.2	NA
CGIVA15PKG	CGMVA15PKG	15	240	355.8	NA

OIL-FREE QUADRUPLIX UNITS

Industrial Model Number	Medical Model Number	HP	Tank Gallons	scfm @ 19" Hg	scfm @ 24" Hg
CGIVA7PKG	CGMVA7PKG	7.5	240	213.2	111.6
CGIVA7PKG	CGMVA7PKG	7.5	240	277.2	NA
CGIVA10PKG	CGMVA10PKG	10	240	356.7	NA
CGIVA15PKG	CGMVA15PKG	15	240	474.4	NA

CHAMPION[®]

A Gardner Denver Product

1301 North Euclid Avenue
 Princeton, Illinois 61356 USA
 Phone 888/436-5499
 Fax 815/872-0421
 E-mail: Champion@championpneumatic.com
www.championpneumatic.com

