

ARTICULATING PISTON AIR COMPRESSORS

- NO₂ Generation/Beverage Dispensing
- Packaging
- Cable Drying
- Air Suspension
- Dry Sprinkler Fire Protection
- Dental
- Controlled Atmosphere
- Wave Guide Environmental Control
- Medical Clinics
- Drywall Spraying

Vortex
 THOMAS®



VORTEX – DESIGNED TO MEET YOUR APPLICATION CHALLENGES

As the world leader in OEM pumps and compressors, Thomas understands your need for OEM products that meet your exacting requirements and specifications. And nothing illustrates that understanding better than our Vortex Series.

The Vortex features were specifically engineered to meet your application challenges – from controlled atmosphere to packaging to dental to air suspension.

While many oil lubed pumps may be suited to your application, very few get the job done with oil-less technology. The revolutionary Vortex Series of articulating piston air compressors raises the bar for innovation and durability.



THE VORTEX SERIES is available in 15 models from 1/2 HP to 2 HP, and provides an open flow rate of 12.9 CFM (366.1 LPM) pressure to 125 PSI (8.6 BAR) and maximum vacuum to 27.5 in. HG (932 MBAR). Models are available in single-phase capacitor start or three-phase designs.

INNOVATIVE DESIGN BUILT AROUND YOU

More than 90 percent of Thomas' products are custom designed for specific applications. Each pump and compressor we build for you is "certified custom," created specifically for your exact use. And the Vortex series is no exception – whether your application is new or existing.

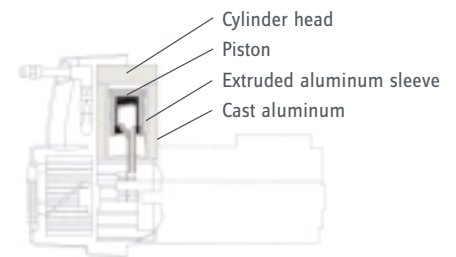


Vortex air compressors are also the last word in quality – Vortex HD and HG models meet the exacting IP54 European standards. Designed with manufacturability, serviceability and compatibility in mind, the Vortex provides you with a custom pump or compressor that meets your specific requirements at the lowest possible cost.



VORTEX FEATURES SET THE STANDARD

Vortex air compressors are specially designed to run cooler for long operating life. Their unique, new balance "V" design minimizes vibration, optimizes efficiency and allows for full rated pressure restarts.



COOLER RUNNING



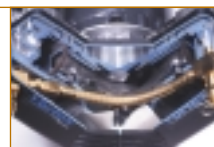
Special patented die cast aluminum cylinder design offers 8,000 hours operating life, more than double conventional designs. Runs 60-70 degrees F cooler.

EFFICIENT



With its optimized design, Vortex is 86.5% efficient at open flow, 53.4% efficient at 100 psig – that's 10-12 percentage points higher than conventional units.

QUIET

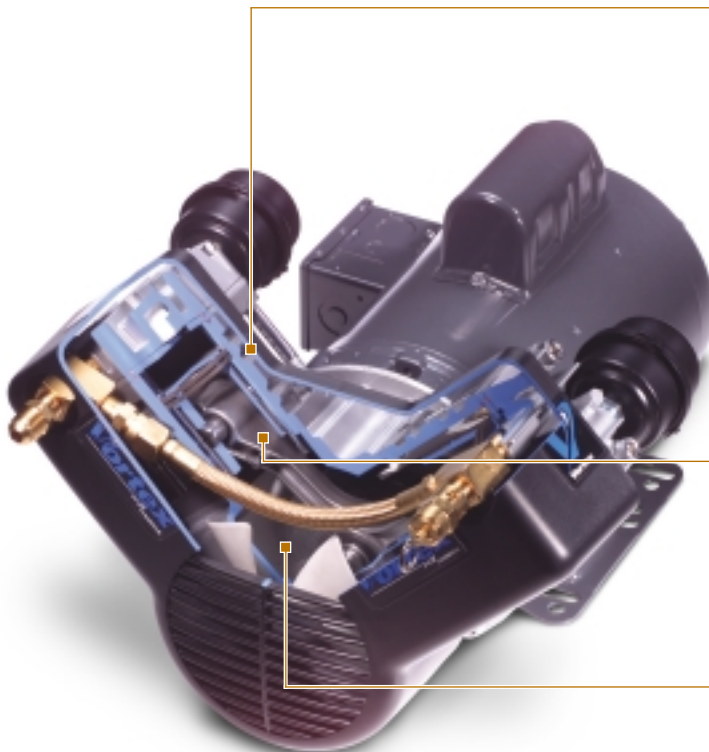


Enclosed crankcase is quieter – 70 dbA compared with 85 dbA or higher for conventional crankcase design. Balanced 90-degree "V" design minimizes "total" vibration. Individual axes may be higher.

LIGHT WEIGHT



All-aluminum crankcase and cylinder construction results in approximately 15% lighter weight than conventional units.



SPECIFICATIONS

Model Number	Mfg. Code	Air Displacement	Air Delivery	Motor Voltage Frequency	Motor Type	Net Weight
VX075HA	184013	5.40 CFM (152.9 LPM)	2.50 CFM @ 100 PSI	115/230/60/1	Capacitor Start	43.0 lbs.
VX075HC	184015	5.40 CFM (152.9 LPM)	2.50 CFM @ 100 PSI	230/460/60/3	Polyphase	43.0 lbs.
VX075HD*	184021	5.10 CFM (144.4 LPM)	2.31 CFM @ 100 PSI	230/50/1	Capacitor Start	43.0 lbs.
VX075HG*	184049	5.10 CFM (144.4 LPM)	2.31 CFM @ 100 PSI	200/400/50/3	Polyphase	43.0 lbs.
VX100HA	184012	6.20 CFM (175.6 LPM)	3.51 CFM @ 100 PSI	115/230/60/1	Capacitor Start	45.0 lbs.
VX100HC	184014	6.20 CFM (175.6 LPM)	3.51 CFM @ 100 PSI	230/460/60/3	Polyphase	45.0 lbs.
VX100HD*	184020	5.17 CFM (146.4 LPM)	2.71 CFM @ 100 PSI	230/50/1	Capacitor Start	45.0 lbs.
VX100HG*	184050	5.17 CFM (146.4 LPM)	2.71 CFM @ 100 PSI	200/400/50/3	Polyphase	45.0 lbs.
VX150HA	184000	12.80 CFM (362.5 LPM)	5.45 CFM @ 100 PSI	115/230/60/1	Capacitor Start/Run	80.0 lbs.
VX150HC	184002	12.80 CFM (362.5 LPM)	5.45 CFM @ 100 PSI	230/460/60/3	Polyphase	80.0 lbs.
VX150HD*	184008	10.72 CFM (303.6 LPM)	4.35 CFM @ 100 PSI	230/50/1	Capacitor Start/Run	84.0 lbs.
VX150HG*	184045	10.72 CFM (303.6 LPM)	4.35 CFM @ 100 PSI	200/400/50/3	Polyphase	84.0 lbs.
VX200HB	184001	12.92 CFM (365.9 LPM)	7.25 CFM @ 100 PSI	230/60/1	Capacitor Start/Run	80.0 lbs.
VX200HC	184003	12.92 CFM (365.9 LPM)	7.25 CFM @ 100 PSI	230/460/60/3	Polyphase	81.0 lbs.
VX200HD*	184009	10.75 CFM (304.4 LPM)	5.05 CFM @ 100 PSI	230/50/1	Capacitor Start/Run	84.0 lbs.
VX200HG*	184046	10.75 CFM (304.4 LPM)	5.05 CFM @ 100 PSI	200/400/50/3	Polyphase	84.0 lbs.
VX050LJ	184047	5.63 CFM (159.4 Bar)	2.88 CFM @ 50 PSI	12v DC	Permanent Magnet	37.0 lbs.
VX050HJ	184048	5.50 CFM (155.7 Bar)	1.24 CFM @ 100 PSI	12v DC	Permanent Magnet	37.0 lbs.

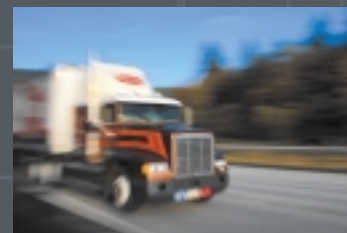
*All Vortex Models with suffix designation HD and HG have motors meeting IP54 European standards

QUALITY AND EXPERIENCE

With sales of more than 2 million ISO 9001 certified units per year into more than 65 countries, Thomas is the world leader in the manufacture of OEM pumps and compressors.

But we never stop developing new technologies and innovations to meet your ever-changing needs. Basing our research in our unparalleled understanding of pump and compressor physics, we're able to push the envelope, realizing new efficiencies and capabilities – and the Vortex Series of articulated piston air compressors is just one example of that.

All of the Thomas manufacturing facilities and sales offices are staffed with experienced, knowledgeable professionals ready to help. You can rely on Thomas to provide custom pump/compressor solutions for you – anywhere in the world.



FOR MORE INFORMATION

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