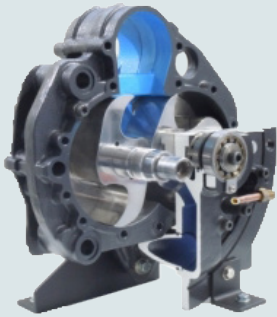




Rotary Tooth Oil-Free Medical Air Systems



OIL-FREE ROTARY TOOTH TECHNOLOGY

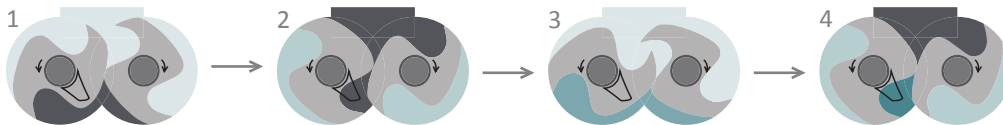


The Powerex Medical Rotary Tooth Compressor Systems are designed to provide medical breathing air for hospital and medical institutions. All Powerex medical air packages meet NFPA 99 requirements for Risk Category 1 systems.

COMPRESSION PRINCIPLE

- Intake
- Begin compression
- Compression
- Discharge

As the teeth rotate in opposite directions, they suck in air, then begin compression as the air is sealed in the chamber. As the teeth continue to rotate, they compress the air further, which is then discharged through the outlet.

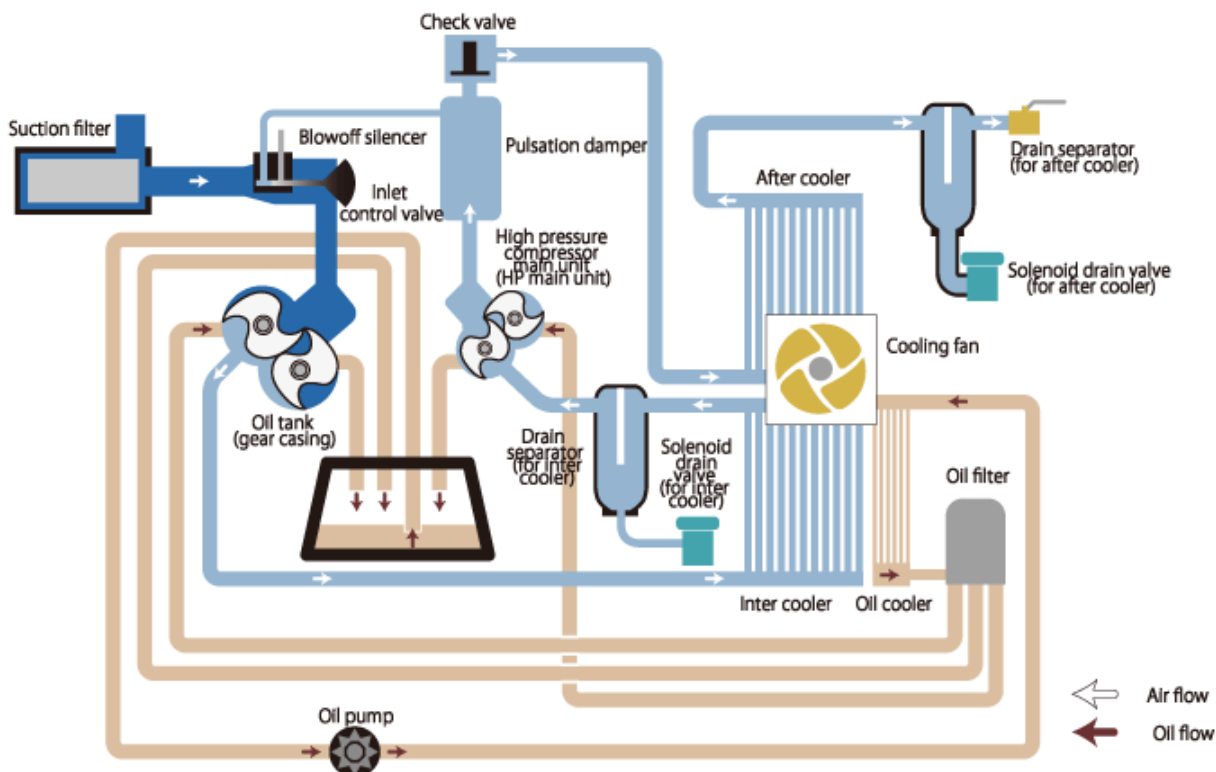


WhisperAIR™ SOUND ENCLOSURE CABINET



Powerex's trademarked oil-free enclosure systems offer the lowest noise levels in the industry. Each system is packaged in a rigid steel frame with powder coated panels and lined with sound-deadening insulation. The low noise levels are unmatched in the industry and allow installation at the point of use, while the small footprint simultaneously maximizes floor space.

AIR/OIL FLOW





50 HP MODEL

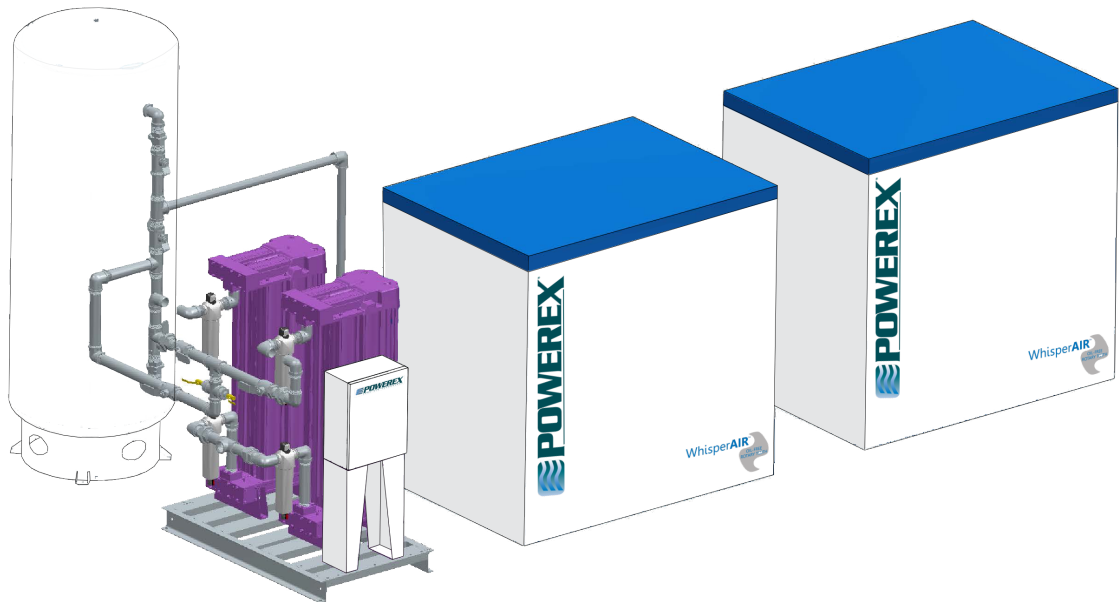
- Quiet operation – enclosure reduces sound to 68 dB(A).
- 100% oil-free air – ISO 8753-1 Class “0” equivalent.
- Smallest system footprint in its class – saves valuable floor space.
- Symmetrical, precision stainless steel rotors optimize pump performance and improve bearing life.
- Air cooling requires no additional cooling water system – greater simplicity and reliability.
- High quality, zero-loss condensate drains.
- Maintenance-free water separators.
- Advanced color HMI touchscreen control panel.
 - Real-time temperature and pressure graphs.
 - Easily programmable limits.
 - Internal data-logging, able to be extracted via USB.
- Dry contacts for remote monitoring with optional BACnet gateway.

OPTIONAL VFD CONTROLLER

- Saves up to 35% in energy costs vs. standard Load/Unload.
- System runs at the target psi vs. max.
- Reduces waste from system running in unload.

STANDARD NFPA 99 FEATURES

- Multiple rotary tooth air compressors and associated equipment.
- Master control panel.
- Corrosion resistant air receiver.
- Redundant medical desiccant air dryers with purge control.
- Dewpoint and CO monitors.
- Dual filtration systems including activated carbon filters.
- Dual regulators and safety valves.



SYSTEMS SPECIFICATIONS

Model	HP	Control	Maximum Pressure (PSIG)	SCFM @ 100 PSIG*	Tank Size (gal)
MDRC0507K	50 (2)	Load/Unload	109	204	400
MDRC0507F	50 (2)	VFD	109	67-207	400
MTRC0507K	50 (3)	Load/Unload	109	408	400
MTRC0507F	50 (3)	VFD	109	134-414	400
MQRC0508K	50 (4)	Load/Unload	109	612	660
MQRC0508F	50 (4)	VFD	109	201-621	660

*Shown with one compressor in reserve per NFPA 99.

WHY POWEREX?

Powerex has been designing and packaging systems since 1988 and has built a foundation on engineering, innovation, quality and service to become a leader in both air and vacuum systems. Because of our high level of vertical integration and a full in-house engineering team, Powerex has the ability to customize a system to meet your air or vacuum requirements.



For more information, contact your local
Powerex distributor or Powerex sales representative today!



150 Production Drive • Harrison, OH 45030 • USA
(T) 1.888.769.7979 • (F) 513-367-3125 • www.powerexinc.com

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