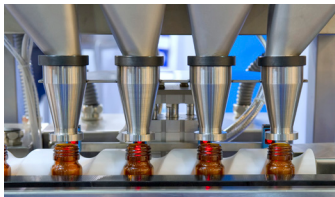
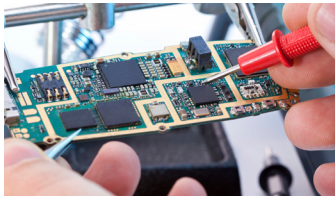




## Rotary Tooth Oil-Free Air Compressors



## OIL-FREE ROTARY TOOTH TECHNOLOGY



Powerex Rotary Tooth Compressor Systems help ensure your facility exceeds the standards of all recognized GMP schemes, including SQF and BCAS, as well as complying with FDA Title 21CFR, Part 110.40 (g). The 100% oil-free air compression chamber provides ISO 8753-1 "Class 0" equivalent air for oil content, ensuring that product is never contaminated with oil and eliminating the need for costly "food grade" compressor oil and/or additional oil filtration. Powerex oil-free compressors provide an excellent HACCP solution by eliminating a contamination risk point.

### 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.

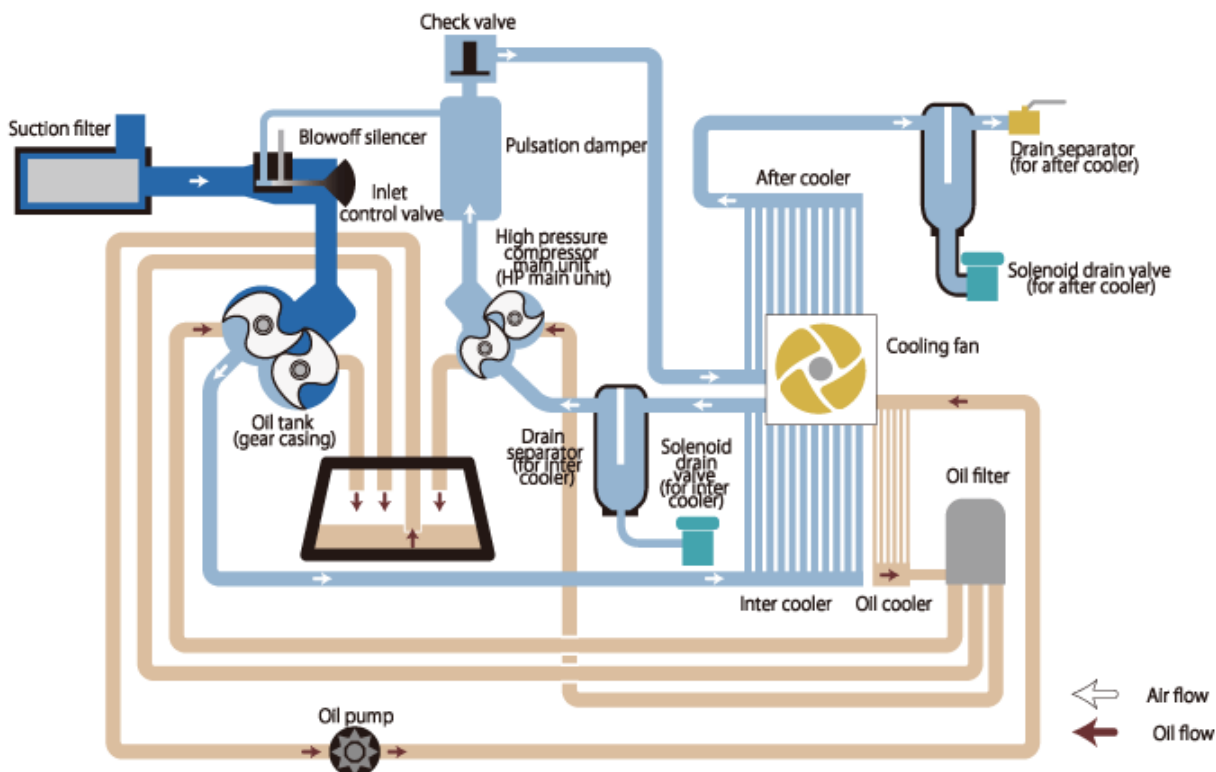


### WhisperAIR™ SOUND ENCLOSURE CABINET



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.

### GMP COMPRESSED AIR PACKAGES INCLUDE:

- Desiccant dryer packages sized to produce dew points of -40°F (and lower if necessary).
- ASME Air Receivers.
- Filtration packages, including point-of-use filtration.
- External alternation control panels for multiple compressors.

## SYSTEMS SPECIFICATIONS

Model	HP	Maximum PSI (PSIG)*	Performance SCFM @ 100 PSIG	Control	Phase	Dimensions LxWxH (in)	Noise Level dB(A)	Outlet
PCC5007K	50	109	204	Load/Unload	3	77x40x65	68	1 ½" NPT
PCC5007KHP	50	125	189	Load/Unload	3	77x40x65	68	1 ½" NPT
PCC5007R	50	109	67-207	VFD	3	77x40x65	68	1 ½" NPT
PCC5007RHP	50	125	59-192	VFD	3	77x40x65	68	1 ½" NPT

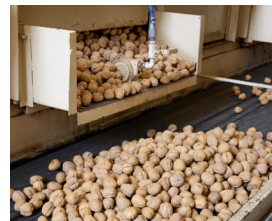
Systems feature 2 stage, air-cooled compression. Heat exchangers include an intercooler, aftercooler, and oil cooler with vertically oriented cooling.

*\*Performance and maximum pressure shown at sea level conditions.*

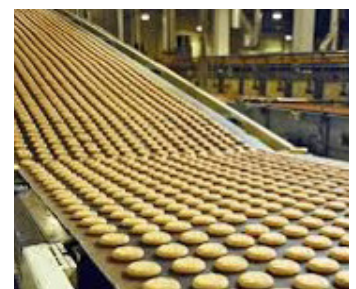
## TARGETED INDUSTRIES



- Food Processing
- Beverage Processing
- Laboratory
- Pharmaceutical
- Electronics
- Textiles
- Medical Devices



*Powerex 100% oil-free Rotary Tooth Compressed Air Systems ensure critical applications will never see contamination from oil.*



## 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.



## THE POWEREX OIL-FREE ADVANTAGE

### BENEFITS OF AN OIL-FREE COMPRESSOR

- Extremely reliable.
- 100% oil free air end.
- No contamination of product.
- No contamination of powered equipment.
- More environmentally friendly.
- Less filtration required.
- No oil water separators needed.

### DISADVANTAGES OF AN OIL-FLOODED COMPRESSOR

- Potential oil contamination of product.
- Potential oil contamination of powered equipment.
- Low-quality "oil free" compressors can damage equipment.
- Potential oil contamination of environment.
- Require additional activated carbon filters.
- Higher level of maintenance – oil changes and filter maintenance required.

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



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