

POWEREX®



Laboratory Vacuum Systems



Designed &
Manufactured
in the USA

with U.S. and Imported Components

Laboratory Vacuum Systems



All systems are manufactured in ISO 9001:2015 certified facilities. Powerex has become a leader in vacuum and air systems through our foundation built on engineering, innovation, quality, and service. We are a highly integrated operation, not only assembling systems, but also designing and manufacturing many of the major components. We are proud to say our systems are made in the U.S.A.!

Design Features

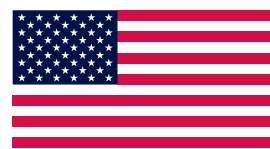
Each laboratory system includes:

- Multiple vacuum pumps
- ASME receiver
- UL listed control panel
- All interconnecting piping and wiring
- Vibration isolation pads and flex connectors
- Manufactured in ISO 9001:2015 certified facilities



Configuration Types

Laboratory vacuum systems are available in a variety of configuration types, allowing you the flexibility to choose the product that best fits your space. Choose between a skidmount, enclosed, tankmounted, or tank-over package.

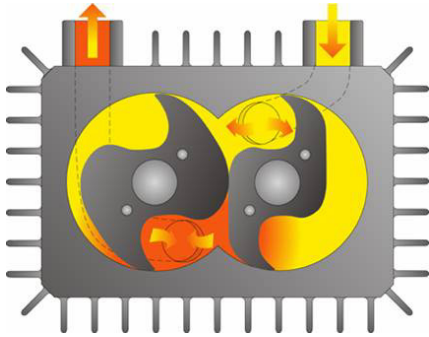


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Oil-free Claw Technology

Dry Claw Pump



Inside the pump housing, two claw shaped rotors take in air as they rotate in opposite directions. The air is compressed by the rotors, then discharged through a silencer to atmosphere. The pumping chamber is dry. There is no contact between the rotors or the cylinder wall, eliminating internal wear and parts to replace. The rotors are synchronized by gears requiring a small amount of oil in the gear housing. Gear oil change requirements are minimal at approximately 20,000 hours.



System Specifications

Model	SCFM @ 19" Hg	HP	Tank (Gal.)
Duplex Skidmount			
LCPD1005	174	10 (2)	200 V
LCPD1505	258	15 (2)	200 V
Triplex Skidmount			
LCPT0505	87	4 (3)	200 V
LCPT0605	114	5 (3)	200 V
LCPT0705	156	6.4 (3)	200 V
LCPT0905	195	7.5 (3)	200 V
LCPT1005	261	10 (3)	200 V
LCPT1505	387	15 (3)	200 V
Quadplex Skidmount			
LCPQ0505	116	4 (4)	200 V
LCPQ0605	152	5 (4)	200 V
LCPQ0705	208	6.4 (4)	200 V
LCPQ0905	260	7.5 (4)	200 V
LCPQ1005	348	10 (4)	200 V
LCPQ1505	516	15 (4)	200 V

Model	SCFM @ 19" Hg	HP	Tank (Gal.)
Duplex Tank Over Skidmount			
LCPDT0502	58	4 (2)	60 H*
LCPDT0602	76	5 (2)	60 H*
LCPDT0702	104	6.4 (2)	60 H*
LCPDT0902	130	7.5 (2)	60 H*

Model	SCFM @ 19" Hg	HP	Tank (Gal.)
Duplex Vertical Tankmount			
LCVD0203	32	2 (2)	80 V
LCVD0303	42	3 (2)	80 V
Duplex Horizontal Tankmount			
LCD0203	32	2 (2)	80 H
LCD0303	42	3 (2)	80 H
LCD0503	58	4 (2)	80 H
LCD0603	76	5 (2)	80 H

*Receiver is frame-mounted on top of the two pumps

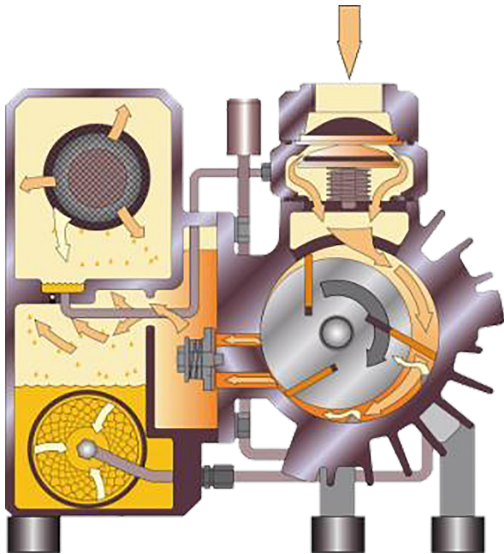
Available Options

- Basic controls
- Air or electric auto purge (with Premium controls only)
- Carbon filters
- Liquid separators
- Premium warranty

Features

- 2-15 HP
- Compact design
- Capability to isolate each pump safely
- Premium Touch Screen Powerex Building Management Integrator (PBMI) controls
- UL508A Listed controls
- Alarms with dry contacts for remote monitoring
- Inlet filtration
- Low maintenance
- High temperature alarm
- Lined tank

Lubricated Rotary Vane Technology



A rotor is mounted eccentrically in the pump cylinder and contains several sliding vanes. As the rotor turns, centrifugal force causes the vanes to slide outward against the cylinder wall, forming chambers between themselves and the housing. Oil is trapped inside these chambers, creating a seal between the vanes and the cylinder wall and lubricating the vanes for reduced wear. Air is pulled into the pump inlet which is then compressed and discharged into the exhaust box. The oil mixed with the air is then passed through several stages of internal oil-and-mist eliminators to remove 99.9% of the lubricating oil before the exhaust is released to atmosphere. The separated oil is then returned to the oil reservoir.

- 30,000 hour vane life
- Semi-synthetic oil-flooded for lubrication and heat dissipation
- Highest ultimate vacuum levels 29.3" Hg
- No water and sewage costs
- Most suitable for high ambient temperatures

Features

- 2-25 HP
- Compact design
- Capability to isolate each pump safely
- Premium Touch Screen Powerex Building Management Integrator (PBMI) controls
- UL508A Listed controls
- Alarms with dry contacts for remote monitoring
- Inlet filtration
- Low maintenance
- High temperature alarm
- Lined tank
- Tank sight gauge

Available Options

- Basic controls
- Air or electric auto purge (with Premium controls only)
- Carbon filters
- 100% synthetic oil
- Liquid separators
- Premium warranty

System Specifications

Model	SCFM @ 19" Hg	HP	Tank (Gal.)
Duplex Skidmount			
LVPD1005	154	10 (2)	200 V
LVPD1505	222	15 (2)	200 V
LVPD2005	274	20 (2)	200 V
LVPD2505	336	25 (2)	200 V
Triplex Skidmount			
LVPT0505	111	5 (3)	200 V
LVPT0755	156	7.5 (3)	200 V
LVPT1005	231	10 (3)	200 V
LVPT1505	333	15 (3)	200 V
LVPT2005	411	20 (3)	200 V
LVPT2505	504	25 (3)	200 V
Quadplex Skidmount			
LVPQ0505	148	5 (4)	200 V
LVPQ0755	208	7.5 (4)	200 V
LVPQ1005	308	10 (4)	200 V
LVPQ1505	444	15 (4)	200 V
LVPQ2005	548	20 (4)	200 V
LVPQ2505	672	25 (4)	200 V

Model	SCFM @ 19" Hg	HP	Tank (Gal.)
Duplex Tank Over Skidmount			
LVPDT0402	50	5 (2)	60 H*
LVPDT0502	74	5 (2)	60 H*
LVPDT0752	104	7.5 (2)	60 H*

Model	SCFM @ 19" Hg	HP	Tank (Gal.)
Duplex Vertical Tankmount			
LWVD0203	22	2 (2)	80 V
LWVD0303	34	3 (2)	80 V
Duplex Horizontal Tankmount			
LVD0203	22	2 (2)	80 H
LVD0303	34	3 (2)	80 H
LVD0404	50	5 (2)	120 H
LVD0504	74	5 (2)	120 H

*Receiver is frame-mounted on top of the two pumps

WhisperVAC™ Enclosure Cabinet



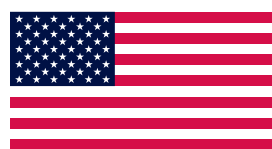
Powerex's trademarked sound enclosure systems offer the lowest noise levels in the industry. Each system is packaged in a rigid steel frame with powder coated panels and lined with sound-deadening insulation.

- Claw vacuum pumps are enclosed within sound-reducing panels – **an industry first!**
- Sound intensity is reduced by an average of 14 dBA over comparable open frame systems – **4x sound reduction**
 - All systems are well within NIOSH limits of 8 hour exposure
 - Helps protect the hearing of healthcare facility employees
 - Improves working environment near the laboratory vacuum system
 - Helps avoid disturbing patients and/or hospital employees
- Ultimate sound reduction achieved when packaged with Powerex WhisperAir™ enclosed scroll laboratory air systems – the quietest source equipment in the industry!

Hearing Loss Prevention

Occupational hearing loss is the most commonly recorded occupational illness, accounting for 1 in 9 recordable illnesses. Powerex WhisperVAC™ technology provides a real solution for workers operating in loud mechanical rooms, as well as any facility employees who are ever in close proximity to the compressor system.

Hearing loss is a significant cost that is preventable!



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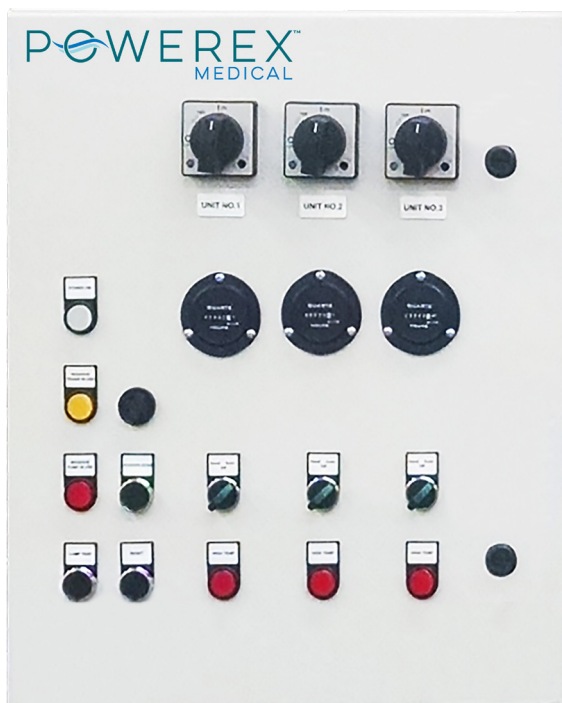
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Control Panel Options



Standard Premium Control Panel

- PLC controller and 6" color HMI touch screen displays the operating status of the unit
- Building automation gateway with BacNet over IP protocol
- UL508A listed and labeled, NEMA 4/12 enclosure
- Visual and audible alarms for:
 - System overload trip
 - High temperature conditions
 - Service intervals
- Panel door includes:
 - Visual and audible alarms
 - HOA switch for each pump
- Side door disconnects:
 - Allows for each plex to be electrically isolated from the system when servicing



Optional Non-HMI Control Panel

- UL508A listed and labeled, NEMA 4/12 enclosure
- Timed lead/lag alternation
- Visual and audible reserve in use alarm
- Redundant control circuit transformers
- Dry contacts for remote alarm monitoring
- Each vacuum pump provided with:
 - Hand/Off/Auto selector switch
 - Magnetic starter with 3 leg overload protection
 - Visual and audible high temperature shut down
- Hour meter



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