

POWEREX[®]



Enclosed Claw Vacuum Systems

The industry-first sound-reducing enclosed claw vacuum system

WhisperVAC™ SOUND 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 medical vacuum system
 - Helps avoid disturbing patients and/or hospital employees
- Ultimate sound reduction achieved when packaged with Powerex WhisperAir™ enclosed scroll medical air systems – *the quietest source equipment in the industry!*



HEARING LOSS PREVENTION

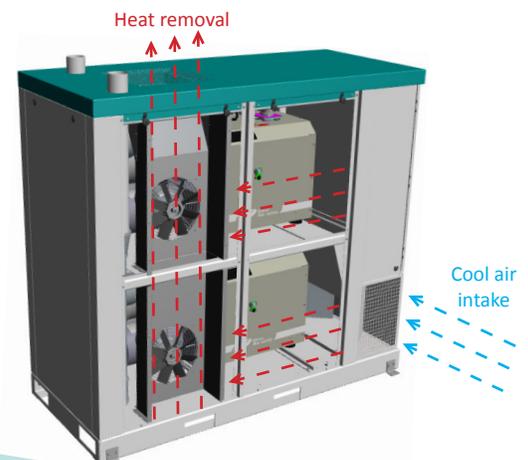


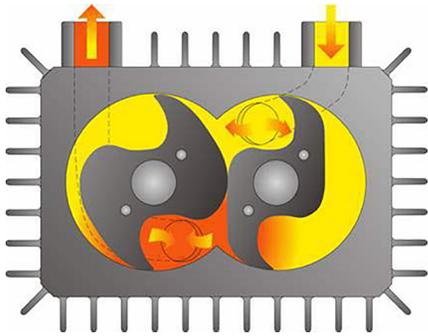
Occupational hearing loss is the most commonly recorded occupational illness in manufacturing, accounting for **1 in 9 recordable illnesses**. Powerex WhisperVac™ technology provides a real solution for workers operating in loud mechanical rooms, as well as any facility employees who are ever in close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

Hearing loss is a significant cost that is preventable!

PATENT-PENDING COOLING SYSTEM

Patent-pending internal pump cooling system ensures vacuum pumps operate well within acceptable temperature ranges.





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.



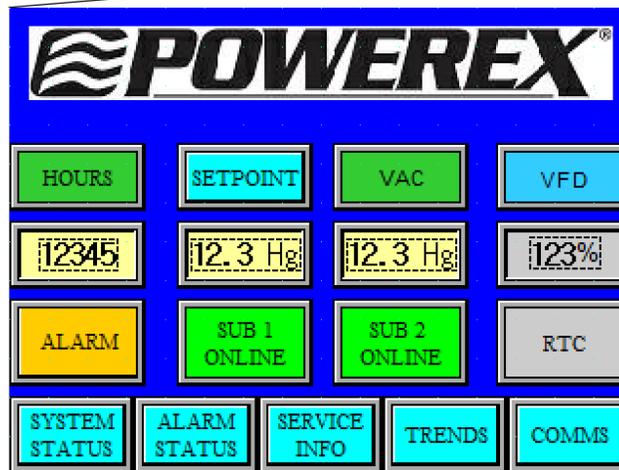
SYSTEM CONFIGURATION



MCEQ0755 quadplex 7.5 HP shown

SYSTEM CONTROLS

- Robust Primary-Subordinate controls logic
- Auto fail-safe & auto reconnect
- UL508A listed and labeled, NEMA 4/12 enclosure
- PLC Controller and 6" color HMI touchscreen displays the operating status of the system
- Easily expandable – up to 6 pumps
- Building automation gateway with BacNet® protocol
 - Email notifications for alarms and service alerts
- Visual and audible alarms for:
 - System overload trip
 - High temperature conditions
 - Service intervals
- Panel door includes:
 - Audible and visual alarms
 - HOA switch for each pump



BENEFITS

- Fits through a standard 36" door
- Lowest noise level on the market
- No need for a separate room for vacuum system due to noise
- Most energy efficient technology
- Oil-free compression chamber
- Extremely low maintenance
- Suitable for WAGD applications
- Air cooled
- Standard outlet muffler provided
- Maintenance friendly
 - Easy to remove latched panels
 - Isolator bolt elevator rail for lower pump removal

OPTIONS & ACCESSORIES

- Premium Warranty
- Variable Frequency Drive (VFD) Controls
 - Saves up to 40% in energy costs vs. standard Load/Unload
- Internal Tank Lining

ENCLOSED CLAW VACUUM SYSTEMS SPECIFICATIONS

NFPA 99 MEDICAL SYSTEMS					
Model	System HP	Pump HP	SCFM @ 19" Hg*	Tank (gal)	dB(A) Level*
Duplex					
MCED0504	10	5 (2)	33	120	64
MCED0704	15	7.5 (2)	53	120	64
MCED0754	15	7.5 (2)	68	120	64
Triplex					
MCET0505	15	5 (3)	66	200	66
MCET0705	22.5	7.5 (3)	106	200	66
MCET0755	22.5	7.5 (3)	136	200	66
Triplex Expandable to Quadplex					
MCET0505-EX4	15 (20)	5 (3)	66	200	66
MCET0705-EX4	22.5 (30)	7.5 (3)	106	200	66
MCET0755-EX4	22.5 (30)	7.5 (3)	136	200	66
Quadplex					
MCEQ0505	20	5 (4)	99	200	68
MCEQ0705	30	7.5 (4)	158	200	68
MCEQ0755	30	7.5 (4)	203	200	68
Pentaplex					
MCEP0755	37.5	7.5 (5)	272	200	69
Hexaplex					
MCEH0755	45	7.5 (6)	340	200	69

*Shown with one pump in reserve per NFPA 99

LABORATORY SYSTEMS					
Model	System HP	Pump HP	SCFM @ 19" Hg	Tank (gal)	dB(A) Level
Duplex					
LCED0504	10	5 (2)	66.0	120	66
LCED0704	15	7.5 (2)	105.6	120	66
LCED0754	15	7.5 (2)	135.6	120	66
Triplex					
LCET0505	15	5 (3)	99.0	200	68
LCET0705	22.5	7.5 (3)	158.4	200	68
LCET0755	22.5	7.5 (3)	203.4	200	68
Quadplex					
LCEQ0505	20	5 (4)	132.0	200	69
LCEQ0705	30	7.5 (4)	211.2	200	69
LCEQ0755	30	7.5 (4)	271.2	200	69
Pentaplex					
LCEP0755	37.5	7.5 (5)	339.0	200	70
Hexaplex					
LCEH0755	45	7.5 (6)	406.8	200	70

*For more information contact your
local Powerex distributor or Powerex
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