



Specification

General

The Powerex medical vacuum system is designed to create a suction system to remove unwanted fluids or gases from hospital/laboratory working areas. The medical vacuum system package is compliant with the NFPA 99 requirements for Risk Category 1 systems. Each system is completely tested before shipment and includes:

- Multiple vacuum pumps and associated equipment.
- · AMSE air receiver.
- Medical control panel.

Each pump is factory piped to a common intake manifold. Vibration isolation pads are included with the system.

Oilless Dry Rotary Vane Vacuum Pump

Each pump shall be a dry rotary vane type vacuum pump, and shall be direct-driven through a shaft coupling by a C-face, TEFC electric motor.

- Each vacuum pump shall be dry-running, featuring self-lubricating carbon/graphite vanes and shall not require any sealing fluid in the pumping chamber.
- Each vacuum pump shall include an internal relief valve, a check valve, inlet and discharge flex connectors, a 5 micron inlet filter and a pump isolation valve.

Motor

The motor is continuous duty, C-face, TEFC, suitable for 208-230, or 460V, 3 phase, 60 hertz electrical operation.

Air Receiver

The system shall include an ASME rated air receiver. The tank shall be equipped with a vacuum gauge, a sight gauge, by-pass valves, and a manual drain.

Premium NFPA Control Panel

The control system provides automatic lead/lag sequencing and automatic alternation of all pumps in order to equalize the amount of usage among the available vacuum pumps. The Premium NFPA Control panel shall include a gateway server card and all features listed below:

- PLC controller and a color touch screen panel which displays the operating status of the unit.
- Building automation communication gateway with BacNet® protocol and Web server features. Web servers features include email notifications in case the system is in alarm or has achieved one its maintenance intervals and requires service.
- Ethernet port for connection to BacNet® server or direct connection to facility Ethernet for viewing of system operations and status via device IP-address.
- UL508A listed control panel in a NEMA 12 enclosure. The panel door will include: the HMI touch screen, an audible and visual alarms with an acknowledge button, and an HOA switch for each pump.

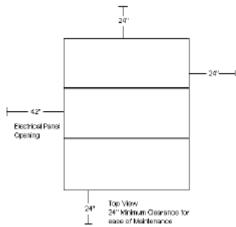
- Magnetic starters.
- Vacuum transducer for process control.
- Single point power connection.
- Redundant 120Vac control transformers with fused primary and secondary protection.
- System overload trip, high temperature conditions or maintenance intervals for the pump will result in visual and audible alarms.

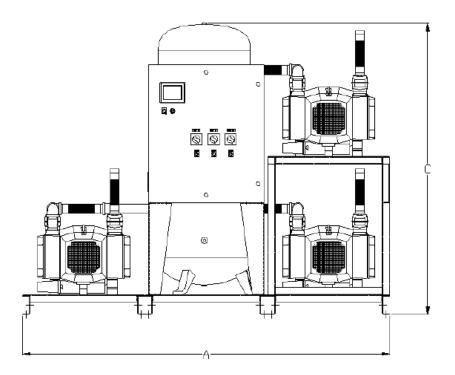
Available Options

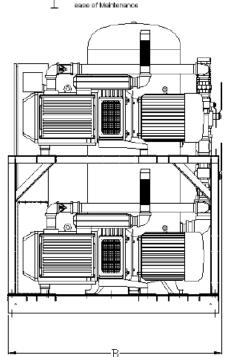
• Internal tank lining for corrosion resistance.



Dimensions										
Model	Dim. A	Dim. A Dim. B I		Inlet	Outlet					
VOPT1004	96"	55"	75"	3"	2"					







Oil-less Medical Vacuum System with Premium Controls												
Model	ΩL	HP SCFM @ 19" Hg	NFPA System Tank Size Capacity ⁽¹⁾ (gal)	Tank Size	BTU/Hr (2)	dB(A)	System F.L.A.		System			
	ПР			(gal)		Level (3)	208V	230V	460V	Weight (lbs)		
VOPT1004	8.6 (3)	56	112	120	43,774	82	92	90.2	47.9	3,000		

Notes:

- 1 System Capacity is shown with one or more pumps in reserve per NFPA 99.
- 2 BTU/Hr levels are shown with reserve pump(s) on standby.
- 3 dB(A) levels are shown with one pump in reserve per NFPA 99.
- 4 3 Year Limited Warranty.