

System Description:

One piece 5 & 5 HP heavy duty duplex lubricated rotary vane medical vacuum package. Tank mount system is NFPA99 compliant and is designed for single point, on site connections. All systems are tested prior to shipping. This system includes inlet and discharge threaded flex lines (shipped loose with the package). Also provided are Operation and Maintenance Manuals on DVD and one hard copy.

Package Details:

This one piece tank mount system is pre-plumbed and pre-wired for single point connections and includes:

- (2) Lubricated rotary vane, air cooled vacuum pumps.
- (2) 5.0 Micron external inlet filters.
- (2) TEFC electric motors,
- (1) ASME tank with 3 valve bypass piping, sight gauge, vacuum gauge and dual valve drain system,
- (1) NFPA compliant duplex UL 508 control panel.
- (2) High temperature shutdowns

Lubricated Rotary Vane Pump:

The vacuum pump is a continuous duty, single stage, air cooled, rotary vane type pump driven by a TEFC motor. The pump has a recirculating oil system that is filtered and easily serviced by a spin on oil filter. The pump contains an internal oil mist eliminator capable of providing 99.9% oil free exhaust. Each pump is able to operate continuously through its entire range up to 29.3" HG. Each pump shall be equipped with an anti-suck back valve, an inlet check valve, a vacuum filter with a 5.0 micron replaceable filter element and a drip

leg with drain valve on pump exhaust discharge. The exhaust port of each vacuum pump shall be equipped with a high temperature safety switch. Each vacuum pump is air cooled requiring no water during normal operations. The vacuum pumps shall be filled with high quality, fully synthetic pump lubricant that will help to withstand high temperatures and extend pump life.

Vacuum Receiver/Tank:

The vacuum receiver/tank shall be constructed according to A.S.M.E. standards. The tank includes a 3-valve bypass piping system, sight gauge, vacuum gauge and double valve drain system.

Electric Motor/Drive:

Each vacuum pump is direct driven by a 1,750 RPM, totally enclosed, fan-cooled (TEFC) C-face electric motor. Each dedicated motor shall be 208-230/460 volt, 3 phase with a 1.15 service factor.

Vibration Isolation:

Seismically restrained vibration isolators shall connect each pump and motor assembly to the base frame on the receiver/tank.

Standard Control Panel:

The system includes a duplex control panel in a NEMA 12 enclosure. The control panel is UL 508 listed and is

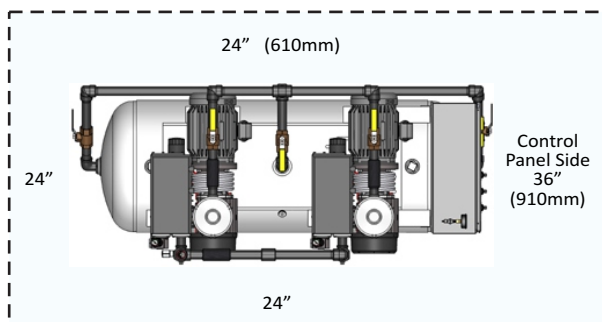


designed to start up immediately after power failure, no boot-up time is required. Panel is configured to operate an NFPA99 complaint medical vacuum system. The duplex panel includes:

- Individual, through-the-door disconnects for each motor,
- Motor circuit breakers,
- Magnetic starters,
- Adjustable motor overload protection,
- Dual control voltage transformers,
- Alternating circuit,
- Hand-off-auto switches,
- Auto 1-2 pump selector switch,
- Power On and Pump Run lights,
- High temperature lights,
- Transformer failure light,
- High temperature shutdowns,
- Vacuum switches, and
- Alarm contact connection points.

Optional:

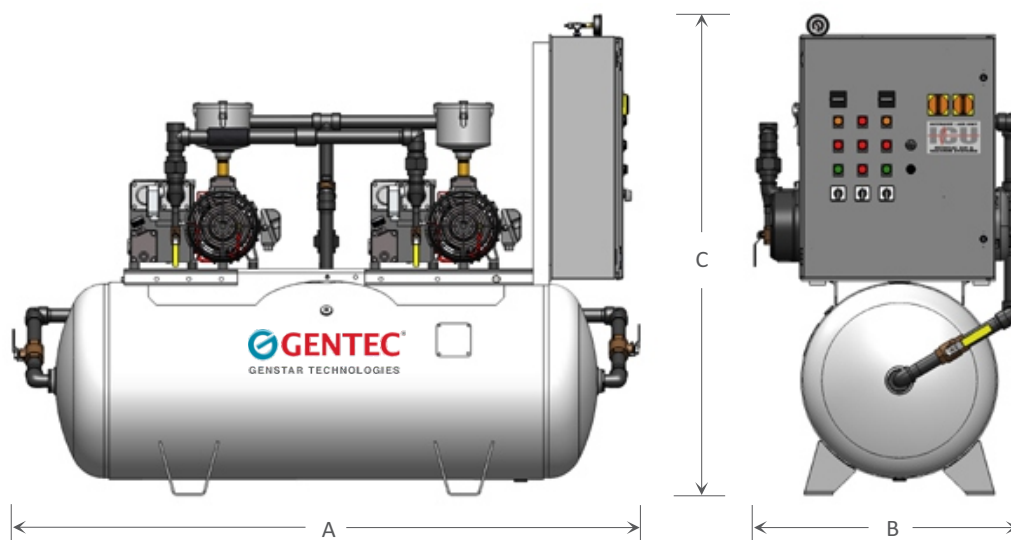
Options are shown in the technical data on Page 2.



Recommended Minimum Clearances for
Equipment Maintenance and Ventilation



Lubricated Rotary Vane Medical Vacuum Package Duplex Horizontal Tank Mount 5 HP & 5 HP (Heavy Duty)



SHOWN: Duplex 5 HP rotary vane vacuum pumps mounted on a 120 gallon horizontal A.S.M.E. vacuum receiver with external inlet filters. Includes duplex Nema 12 control panel with high temperature shutdowns. Package is NFPA99 compliant.

Technical Data for NFPA99 Compliant Medical Vacuum System

Model Number	Tank Gals	HP		SCFM @19" HG		dB(A) Level	BTU per HR	Weight in LBS	Dimensions					Options
		each	pkg	each	pkg				A	B	C	NPT In	NPT Out	
GMV37-DTE-H4S	120	5.0	10.0	26.00	26.00	71	12,722	1475	77" (1956mm)	34.5" (863mm)	58" (1397mm)	1.25 "	1.25 "	Touch Screen PLC Control Interface
GMV37-DTE-H5S	200	5.0	10.0	26.00	26.00	71	12,722	1525	77" (1956mm)	34.5" (863mm)	66" (1676mm)	1.25 "	1.25 "	Nema 4 weather resistant control panel
GMV37-DTE-H6S	240	5.0	10.0	26.00	26.00	71	12,722	1625	96" (2438mm)	34.5" (863mm)	66" (1676mm)	1.25 "	1.25 "	Galvanized tank
GMV37-DTR-H4S	120	5.0 HD	10.0 HD	37.00	37.00	79	16,275	1550	77" (1956mm)	42" (1067mm)	58" (1397mm)	2.0 "	2.0 "	Water cooled oil coolers
GMV37-DTR-H5S	200	5.0 HD	10.0 HD	37.00	37.00	79	16,275	1635	77" (1956mm)	42" (1067mm)	66" (1676mm)	2.0 "	2.0 "	
GMV37-DTR-H6S	240	5.0 HD	10.0 HD	37.00	37.00	79	16,275	1690	96" (2438mm)	42" (1067mm)	66" (1676mm)	2.0 "	2.0 "	



System capacities are shown with reserve vacuum pump as redundant standby, to comply with NFPA 99. Sound levels are indicated in dB(A) and are shown as only one pump running. Data is shown with equipment operating in a maximum ambient room temperature of 105° F and under normal operating conditions. HD denotes heavy duty vacuum pumps.