

Duplex Horizontal Tank Mount

1.5, 2, & 3 HP



Description

NFPA 99 compliant duplex oil-less rotary vane medical vacuum package. One piece vertical tank mount system is designed for single point connections. All systems are thoroughly tested prior to shipping. This system ships with inlet and discharge threaded flex connectors and O&M manuals on CD and a hard copy.

Package Details

Duplex medical vacuum system, consisting of two continuous duty, oil-less rotary vane, air cooled vacuum pumps. The vacuum pumps, vacuum receiver and control panel shall be factory assembled in a one piece package, pre-plumbed and pre-wired for single point connections. The package includes: 5.0 micron inlet filters, vibration isolation feet under each pump, exhaust and intake manifold plumbing with flexible metal vibration isolators, pump isolation valves, sight gauge, 3-valve bypass, and main system shutoff valve with flexible metal isolator for connecting to piping system. This package meets or exceeds NFPA 99 current edition.

Oil-less Rotary Vane Vacuum Pump

Each medical vacuum pump is 100% dry oil-less rotary vane vacuum pump technology, requiring no oil and no water in its operation. The oil-less rotary vane pump is a single stage, positive displacement, continuous duty type vacuum pump, capable of operating continuously through its full range up to 27" HG. The pump requires no routine maintenance due to the use of sealed-for-life bearings and dry running, self-lubricating graphite composite vanes (rated for 20,000 minimum running hours). The direct shaft-driven vanes generate vacuum efficiently and economically with a long service life. Maintenance is simple and cost effective, due to the longevity of the pump. This technology is environmentally friendly since no hazardous waste oil disposal is necessary. The compact design lends itself to small spaces. Each vacuum pump is equipped with an inlet check valve, anti-suck back valve and an inlet filter with a 5.0 micron replaceable element. Each vacuum pump is air cooled and no water is required for normal operations.

Electric Motor/Drive

Each vacuum pump is driven by a 1,740 RPM (10 HP 1,150 RPM) C-face, totally enclosed, fan cooled, TEFC electric motor. Motor is 208-230/460 volt, three phase with a service factor of 1.15.

Vibration Isolation

Each pump and motor assembly is mounted to the base frame/tank with seismically restrained vibration isolators.

Vacuum Receiver

The tank is constructed in accordance with A.S.M.E. standards and is equipped with 3 valve by-pass piping, vacuum gauge, double valve drain system and sight gauge.

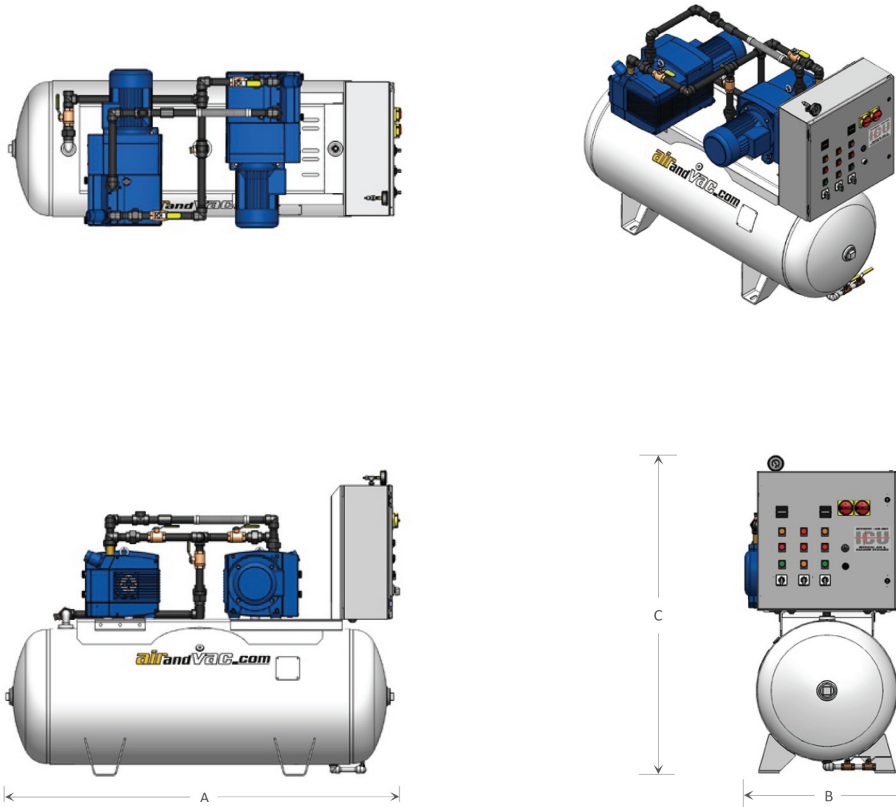
Standard Control Panel

The system includes a duplex control panel in a NEMA 12 enclosure. The control panel is UL 508 listed and is designed to operate an NFPA 99 compliant medical air system. The 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/lead pump selector switch, power on light, high temperature lights, transformer failure light, pump run lights, vacuum switches and alarm contact connection points. The control panel will start up immediately after power failure and no boot-up time is required.

Option

- Galvanized tank.
- Touch-Screen Interface Control System (HMI/PLC) with built-in ethernet, system monitoring, maintenance alerts and multiple protocols for facility automation systems.

Oil-less Rotary Vane Vacuum Package - Duplex Horizontal Tank Mount 1.5, 2, & 3 HP



There are recommended minimum clearances for equipment maintenance and ventilation. Please contact us toll free at 800.333.0811

Shown: Duplex 3 HP, 120 gallon, horizontal tank mount, standard oil-less rotary vane configuration.

Model Number	Tank Gals	Horsepower		SCFM @ 19" HG ^(1,2)		dB(A) ⁽³⁾ Level	System FLA			BTU HR	Dimensions			NPT In	NPT Out	Weight (LBS)
		each	pkg	each	pkg		208V	230V	460V		A	B	C			
V34M-DTB-3HS	80	1.5	3.0	5.32	5.32	67	10	9	6	3,054	67.0	28.5	52.0	0.75	0.75	565
V34M-DTB-4HS	120	1.5	3.0	5.32	5.32	67	10	9	6	3,054	70.5	28.5	54.0	0.75	0.75	875
V34M-DTC-3HS	80	2.0	4.0	8.27	8.27	72	13	12	7	5,089	67.0	28.5	52.0	0.75	0.75	610
V34M-DTC-4HS	120	2.0	4.0	8.27	8.27	72	13	12	7	5,089	70.5	28.5	54.0	0.75	0.75	860
V34M-DTD-3HS	80	3.0	6.0	12.50	12.50	73	18	16	8	7,633	67.0	28.5	52.0	1.00	1.00	620
V34M-DTD-4HS	120	3.0	4.0	12.50	12.50	73	18	16	8	7,633	70.5	28.5	54.0	1.00	1.00	895

- Vacuum pump data is shown with one pump in reserve. 2. Pump capacities are shown in SCFM (Standard Cubic Feet per Minute).
- dB(A) levels are shown as only one pump running. 4. Data is shown with equipment running at normal operating conditions with a 105° maximum ambient temperature.

