

## LifeLine® "Oil-Less" Medical Rotary Vacuum Vertical Simplex System (1.5 - 2 HP)

### SPECIFICATION

#### Vacuum System Design

The LifeLine® "Oil-Less" Rotary Vane Medical vacuum package features a common base with single point connections for the electrical panel and intake. The pump and the receiver are connected to a common intake manifold. The system is capable of access through a standard 34.5" doorway. Designed and manufactured with ISO 13485 processes, each system is completely tested before shipment and includes:

- One "oil-less" rotary vane vacuum pump with one motor
- Integral pre-wired control panel
- Vertical air receiver with full-size three-valve bypass system sized for appropriate demand

#### Vacuum Pump

The pump is a direct driven, oil-less rotary vane vacuum pump that operates completely dry. The pump is completely air-cooled with no water requirements. The pump contains:

- Self-lubricating carbon/graphite vanes
- Permanently lubricated and sealed bearings
- Inlet filter for removal of particulates
- Equipped with a vacuum relief valve, check valve to prevent backflow through off-cycle units, flexible connector, and isolation valve
- Mounting on vibration isolators

#### Vacuum Pump Drive

The pump is direct driven. Torque is transmitted from the motor to the pump through a shaft coupling.

#### Vacuum Pump Motor

Motor is continuous duty, IEC rated, C-face, foot-mounted, TEFC, 1800 RPM, suitable for 230/460 or 208V, 60 hertz, 3-phase electrical service.

#### Intake Piping

The vacuum pump has a factory piped intake with integral flex connector, isolation valve, and check valve. Interconnecting piping consists of galvanized pipe and fittings.

#### Vacuum Receiver

The vacuum receiver is ASME Code stamped, and rated for a minimum 150 PSIG design pressure.

The receiver has a full-size three-valve bypass system to allow for draining of the receiver without interrupting the vacuum service. A manual drain is provided on the receiver.

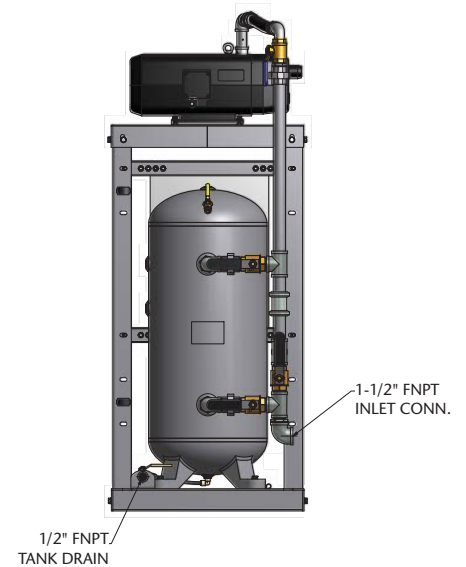
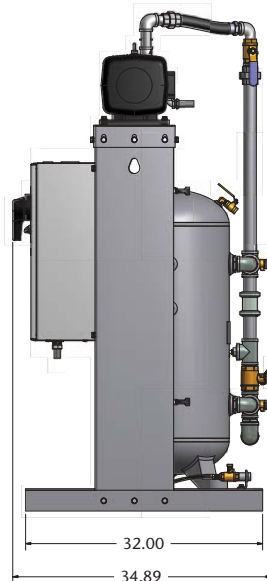
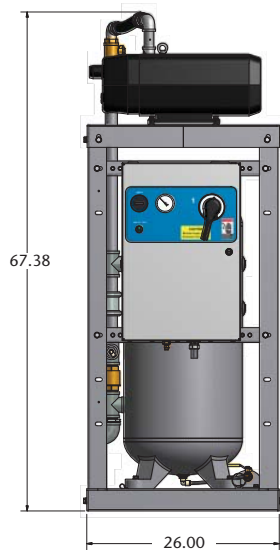
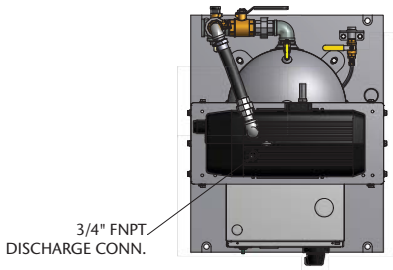
#### Control System

The simplex mounted and wired control system is U.L. labeled and includes:

- NEMA 12 control panel enclosure
- Circuit breaker disconnect for the vacuum pump with external operator
- Full voltage motor starter with overload protection
- 24V control circuit
- Hand-off-auto lighted selected switch
- Runtime hour meter
- Minimum run timer
- Vacuum gauge

#### Installation

The installation of this vacuum technology is limited to a maximum of 4,000 feet elevation above sea level. For installation of this equipment above 4,000 feet elevation, please contact the factory.

**Standard Configuration**


- Notes:**
- Allow 36 inches in front of control panel for maintenance and ventilation, all other sides require 24 inches of clearance.
  - Discharge flex hose (1) ships loose.
  - Additional drawings/diagrams available for download at [www.beaconmedaes.com](http://www.beaconmedaes.com).

Vacuum System Specifications <sup>1</sup>										
System Model No.	HP	Capacity @19" Hg (scfm)		System BTU/HR	Receiver (gallons)	Noise <sup>2</sup> Level	System FLA			System Weight (lbs.)
		Pump	System				208V	230V	460V	
VDV01S-030V-BS	1.5	5	5	3,054	30	67	5.9	5.6	3.1	348
VDV02S-030V-BS	2	8	8	4,072	30	70	7.7	7.2	3.7	375

- Notes:**
1. Normal operating conditions at a maximum ambient of 105° F. Consult factory for higher ambient conditions.
  2. All noise levels are shown in dB(A).