

## Lifeline® "Oil-Less" Rotary Vane Medical Vacuum Vertical Simplex System (1.2 - 2 HP)

### SPECIFICATION

#### Vacuum System Design

The LifeLine® "Oil-Less" Rotary Vane Medical vacuum package is fully compliant with NFPA 99 and features a common base with single point connections for the electrical panel and intake. Each 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

Each pump is a direct driven, oil-less rotary vane vacuum pump that operates completely dry. Each pump is completely aircooled with no water requirements. Each 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 shall be direct driven. Torque is transmitted from the motor to the pump through a shaft coupling.

#### Vacuum Pump Motor

Motors are continuous duty, IEC rated, C-face, foot-mounted, TEFC, suitable for 230/460 or 208V, 60 hertz, 3-phase electrical service and 380V, 50 hertz, 3-phase electrical service.

#### HEPA Filter

A HEPA inlet air filter, 0.3 micron, 99.97% efficiency, is mounted before each vacuum pump. A clear, glass collection canister is mounted below each HEPA filter, with quarter turn valve to isolate canister from filter during service. The inlet filter canister contains a bleed valve to relieve vacuum before servicing.

#### 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 motor with external operator
- Full voltage motor starter with overload protection
- 24V control circuit
- Hand-Off-Auto lighted selector switch
- Runtime hour meter
- Minimum run timer
- Vacuum gauge
- 65kAIC SCCR rating

#### 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.



**SPECIFICATION TABLE**

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	
<b>Vertical Simplex - 60 Hz</b>										
VDV01BS-030V-BS	1.2	4.2	4.2	2,443	30	67	4.4	4.2	2.2	370
VDV02BS-030V-BS	2	7	7	4,072	30	72	7.2	6.4	3.3	378
<b>Vertical Simplex - 50 Hz</b>										
							<b>380V</b>			
VDV01BS-030V-BSE	1.2	3.2	3.2	2,443	30	67	2.4			370
VDV02BS-030V-BSE	2	5.4	5.4	4,072	30	72	3.6			378

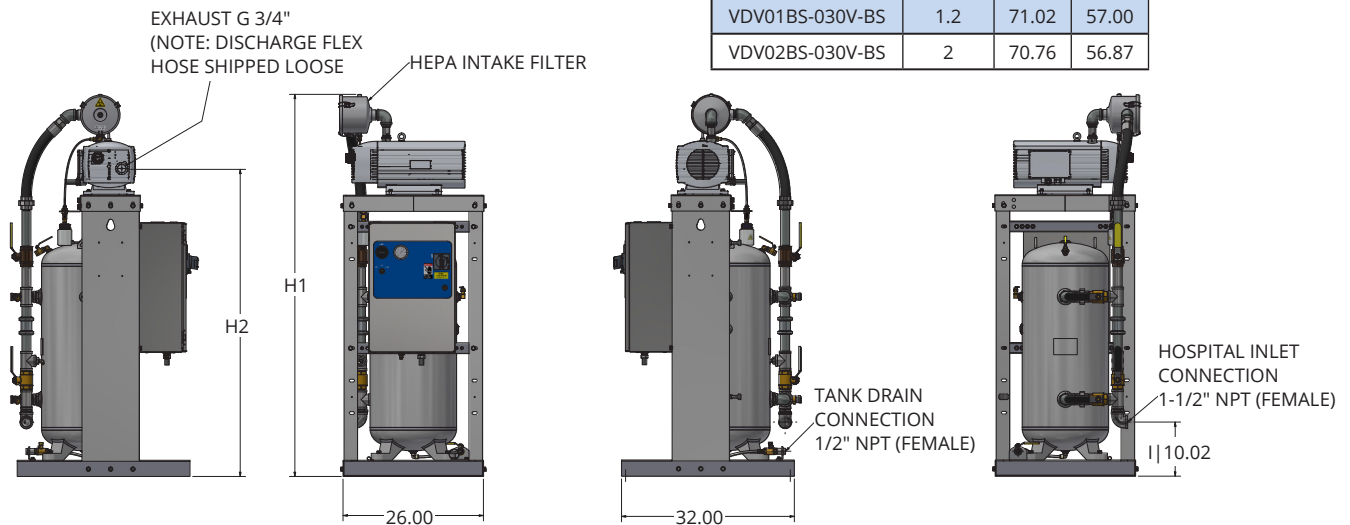
**Specification Table Notes:**

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).

**Standard Configuration**

Model Shown: 2 Hp Simplex

System Model No.	HP	Dimensions	
		H1	H2
VDV01BS-030V-BS	1.2	71.02	57.00
VDV02BS-030V-BS	2	70.76	56.87


*Life is in the details.®*