

SSB-510-15

4107 9513 53.00 Page 1 of 2 1 December 2018

Liquid Ring "Camel" Medical Vacuum Base Mount Modular System

Triplex System (10 - 15 HP)

SPECIFICATION

Vacuum System

The triplex medical vacuum system is fully compliant with the latest edition of NFPA 99. The system consists of three steel framed simplex modules with an oil-free liquid ring vacuum pump coupled to a standard NEMA frame motor and a reservoir tank mounted on each module. A triplex system control panel is mounted on one of the modules. A standalone corrosion resistant receiver sized for appropriate demand is provided for the system. The system is completely tested prior to shipment. The installer, during installation, provides wiring and intake manifold piping between the modules.

Vacuum Pump

The pump is a Nash Vectra GL series oil-free, single-stage, positive displacement, cone-ported and non-pulsating liquid ring type. Materials of construction are all iron with steel shaft, ductile iron lobe, head, rotor and end plate. The shaft seals are standard internal mechanical seals, John Crane type 21.

Vacuum Pump Drive

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

Vacuum Pump Motor

The motor is a continuous duty, NEMA rated, open drip proof, with 1.15 service factor suitable for 208V or 230/460V, 60 hertz, 3 phase electrical service.

The 10 hp motor runs at 1800 RPM.

The 15 hp motor runs at 1200 RPM.

Intake Piping

Each vacuum pump has a factory piped intake with an intake check valve to prevent backflow through off-cycle units, a vacuum relief valve and an isolation valve. The installer, at installation, provides an intake manifold.

Re-circulation and Seal Water

The system includes a dielectric union, anti-siphon valve, strainer, solenoid valve, flow control valve, and an orifice union. Under normal operation, the system does not use more than 1 gpm of seal water per operating pump. The system includes a reservoir sufficient for up to 48 hours operation without a fresh water supply. The reservoir serves as a separator/silencer. The system is self contained and air-cooled.

Vacuum Receiver

The vacuum receiver is corrosion resistant, ASME Code stamped, and rated for a minimum 125 PSIG design pressure. Included but shipped separately are a sight glass with manual drain, and a vacuum gauge. All receiver piping and bypass valving are by contractor.

Control System

The triplex control system is NEMA 12 and U.L. labeled. The control system provides automatic lead/lag sequencing with circuit breaker disconnects with external operators for each vacuum pump motor, full voltage motor starters with overload protection, a 120V control circuit transformer for each motor circuit, visual and audible reserve unit alarm with isolated contacts for remote alarm, hand-off-auto lighted selector switches and runtime hourmeters. A programmable logic controller (PLC) controls the automatic sequencing of all vacuum pumps, and automatic activation of reserve unit if required. The control system includes a manually adjustable minimum run timer to minimize starts and stops on the package. A vacuum gauge is provided in the control panel.

Accessories (shipped loose)

Intake flexible hose	3
Discharge flexible hose	3
Seal water flexible hose	3
Vibration isolator	12

Vacuum System Specifications¹

vacuum system specifications											
System Model No.	HP	Capacity ² @19" Hg	Receiver³ (Gallons)	Noise ⁴ Level	System FLA @ 60 hz			Module Weight (lbs.)			
					208V	230V	460V	Vacuum⁵	Receiver		
LVS-10T-RC220V	10	110 scfm	220*	66	94	82	41	3640	565		
LVS-10T-RC400V	10	110 scfm	400	66	94	82	41	3640	650		
LVS-15T-RC220V	15	182 scfm	220*	78	145	126	63	4717	565		
LVS-15T-RC400V	15	182 scfm	400	78	145	126	63	4717	650		

Notes: 1. Normal operating condition at a maximum ambient of 105°F. Consult factory for higher ambient conditions.

2. All capacities are shown as NFPA system capacities (reserve vacuum pump on standby).

3. * Indicates standard receiver

4. All noise levels are shown in dB(A) and reflect two vacuum pumps in operation.

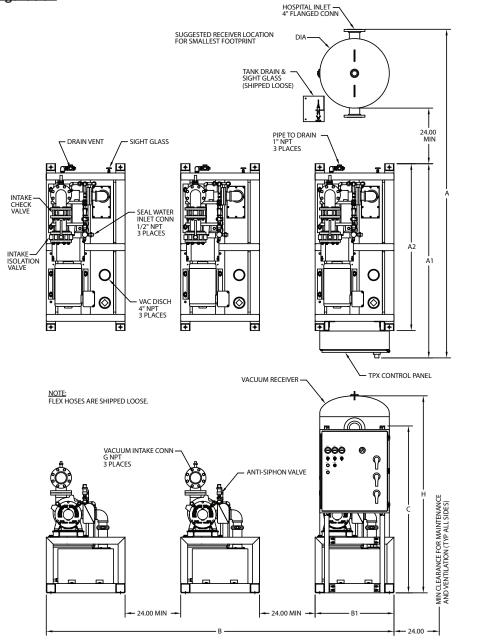
5. Total weight for a 10 hp simplex module w/control panel (1392#) and (2) 10 hp simplex modules (1124# ea.). Total weight for a 15 hp simplex module w/control panel (1751#) and (2) 15 hp simplex modules (1483# ea.).



SSB-510-15

4107 9513 53.00 Page 2 of 2 1 December 2018

Standard Configuration



COMPLETE SYSTEM UNIT MODEL NUMBER (HP)	UNIT	PUMP MODEL	RECEIVER	DIMENSIONS (IN)									SQ FEET
	(HP)		(GALLONS)	A*	A1	A2	B*	B1	С	G	н	DIA	REQUIRED
LVS-10T-RC220V	10	CL 25	220	142						2	85	30	92
LVS-10T-RC400V	10	10 GL-35	400	148	84	72	150	24	72	3	101	36	94
LVS-15T-RC220V	15	CL (0	220	142	84	/2	150	34	72	4	85	30	92
LVS-15T-RC400V		GL-60	400	148						4	101	36	94

15HP/220GAL SHOWN (DIA24-214-SSB)

BeaconMedæs 1059 Paragon Way Rock Hill, SC 29730 Phone: (803) 817-5600 Fax: (803) 817-5750 www.beaconmedaes.com







SUGGESTED SYSTEM DIMENSIONS