

AES Group, Inc.

Sales • Construction • Service

Duplex Oil Lubricated Laboratory Vacuum System – Vertical Tank Mount

Features of the Duplex Lubricated Rotary Vane

Laboratory Vacuum System

DT40LV/P3-AES-SPL	2.4HP	PUMP MODEL	U5.40 XL	5.7 SCFM@25" HGVAC	TANK SIZE 60 GALLON
				10.5 SCFM@19" HGVAC	

Becker Advantage L & P Lubricated Vertical Tank Mount

Pneumatic vacuum system designed for Laboratory-Medical USE. Features two Becker brand vacuum pumps, with integrated filtration and safety relief valves. Pumps and control pane mounted to air receiver for convenient installation. All Laboratory-Medical Systems are NFPA 99 compliant and include all necessary redundancies. All systems are tested for leaks and functionality before shipping.

The Advantage L duplex systems include:

- Two Becker Lubricated Rotary Vane vacuum pumps
- AMSE coded vacuum receiver with drain and bypass manifold
- Single point service for electrical and vacuum connections
- Integrated electrical panel with duplex pump controls
- Optional external filtration canisters (one per pump)
- Optional oil level and oil temperature monitors (per pump)

Vacuum Pumps

All pumps used on our systems are Becker Manufactured and individually tested at factory before shipping. Becker oil lubricated rotary vane vacuum pumps feature:

- End vacuum of 29"Hg
- Integrated 2-micron paper inlet filter
- Gas ballast and anti-return valve
- Full Synthetic Vacuum Pump oil
 - ISO-100
- Oil sight glass for visual inspection
- Liquid filled vacuum gauges installed at the pump
- Simple maintenance procedures
- DT20-DT40 – Direct shaft integrated motor
- TEFC Motors
- 208V/230V/460V – 3-phase motor options

Plumbing and Receiver

All vacuum pumps are plumbed to a manifold and connected to the air receiver. Check valves are installed at each pump inlet to prevent backflow in the system. Ball valves installed for pump and receiver isolation. One point connection for vacuum plumbing is standard for all Becker systems. Optional manifold and one point connection for exhaust plumbing is available.

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All air receivers are ASME stamped to code and may have a mounted bypass and drain to allow for manual liquid removal.

Control Panel

NEMA type 3& 12 enclosure with UL listing; mounted and prewired system controls. Becker duplex system controls are designed with lead/lag sequencing to maintain the desired vacuum range and provide automatic alternation of vacuum pumps to maintain equal run time between available pumps. Each system has adjustable minimum and maximum run timers to facilitate the correct activation of pumps in the system. Additional elements included are:

- 115V low voltage control transformer with fused primary and secondary
- Motor starters with overload protection
- Automatic low voltage transformer switching with alarm
- One Hand-Off-Auto switch per pump
- System run and alarm lamps
- Sound horn for notification of system alarms
- Silence/acknowledge alarm push button
- Preinstalled vacuum transducer
- AUTO PURGE – Option Laboratory Vacuum Systems

Panel also includes a 7" touchscreen LCD HMI unit to display system status. HMI provides access to basic system setup settings such as number of active pumps, vacuum high/low setpoints, and min/max run time. Live monitoring of each pump motor's average amperage and amperage per phase is also available.