

AES Group, Inc.

Sales • Construction • Service

Dekker Laboratory Vacuum System Specification

BASE MODEL NUMBER: VMX0153MA4-AES-SPL
SYSTEM CAPACITY: 74.68 SCFM @ 26" HGVAC
Capacity with (1) One Vacuum Pump in Reserve = 56.01 SCFM @ 26" HGVAC

- 18.67 SCFM @ 26" HGVAC Each Vacuum Pump
- NOTE: 28 SCFM @ 24" HGVAC Each Vacuum Pump

HORSEPOWER: 40 HP Total (10HP x 4)
RECEIVER SIZE/CONFIGURATION: 120 Gal – Vertical
ELECTRICAL: 208/230/460V, 3PH, 60Hz
(MUST SPECIFY VOLTAGE WHEN ORDERING.)

*System performance shown with all pumps running

- AES-Dekker Laboratory Vacuum System Model AES-VMX0153MA4-00-DS—AES-SPL
 - (4) Dekker Titan single stage 10HP liquid ring vacuum pump skids.
 - Capacity each vacuum pump 28 SCFM @ 24" HGVAC *Note the liquid ring technology may have a slight variance in CFM due to close tolerances between the vacuum pump impeller and vacuum pump body.
 - System Capacity (3) Vacuum Pumps Operating 84 SCFM @ 24" HGVAC , One (1) Vacuum Pump in Reserve
 - **Oil is Not used as a lubricant**
 - System Components Include:
 - (4) TEFC Electric motors, 230/460 Volt, 3 Phase, Premium Efficiency.
 - (4) Patented DX5 Discharge Separator-Reservoirs with 5 Stage Air/Oil Separation, Including Coalescing Filter.
 - (4) Seal Fluid Isolation Valves
 - (4) Y-Strainers
 - (4) Seal Fluid Line Check Valves
 - (4) Separator Drain Valves
 - (4) Separator Sight Level Gauges
 - (4) Temperature RTD for Discharge Temperature Indication and High Temperature Protection.
 - (4) High/Low Oil Level Switches
 - (4) Air-Cooled, Heat Exchanger Packages with Main Motor Driven Fan and Fan Guard.
 - (4) Inlet Check Valves
 - Inlet Manifold Including:
 - (4) Inlet Isolation Valves
 - (4) Inlet Flex Connectors
 - Manifold Piping
 - Discharge Manifold Including:
 - (4) Individual Pump Drip Legs
 - (4) Discharge Check Valves
 - (4) Discharge Flex Connectors
 - Manifold Piping
 - (4) Sets of Hydraulic Hose Seal Fluid Line.
 - (4) Inlet Filters
 - (4) Vacuum Relief Valves
 - **Common Base – (3) Segmented Base for Stacked Design**
 - **(1) Additional Inlet Filtration Solberg HV Series – Shipped Loose for Field Installation – HV-UL234/2G-400C**
 - Vacuum Receiver
 - **(1) Vertical Vacuum Receiver 120 Gallon**

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San Rafael, CA 94903
Tel 415 507-9373 Fax 415 507-9376

- (1) Receiver Isolation Valve
- (1) Receiver Sight Level Gauge
- (1) Receiver Drain Valve
- Electrical:
 - (1) Quadraplex ControlDEK Control Panel
 - Monitors, measures, and displays performance
 - Identifies maintenance and fault conditions, prevents downtime, and preserves system quality.
 - Standard 460V, 3 Phase, 60Hz (NEMA12, CUL Listed)
 - Custom PLC with 4.3" Color Touchscreen LCD with integral hour meter
 - Across-line Magnetic Vacuum Pump Starter with 3 Phase Overload Protection
 - RTD for discharge temperature indication and high temperature protection
 - Vacuum On/Off capability with adjustable set points
 - Vacuum transducer, for vacuum level indication
 - Pressure transducer, for back pressure indication
 - 24V Power Supply
 - Dry Contacts – Low Vacuum – General Fault
 - BACNET IP – **Adder Included**