

AES Group, Inc.

Sales • Construction • Service

Dekker Laboratory Vacuum System Specification

BASE MODEL NUMBER: VMXVFD0553MA2-AES-SPL
SYSTEM CAPACITY: 140 SCFM @ 26" HGVAC
Capacity with (1) One Vacuum Pump in Reserve = 70 SCFM @ 26" HGVAC
▪ 70 SCFM @ 26" HGVAC Each Vacuum Pump
▪ NOTE: 110 SCFM @ 24" HGVAC Each Vacuum Pump

HORSEPOWER: 80 HP Total (40HP x 2)
RECEIVER SIZE/CONFIGURATION: 400 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 VMXVFD0553KA2-AES-00-GS

- (2) Dekker Titan single stage 40HP liquid ring vacuum pump skids.
 - 90 SCFM @ 25" HGVAC (Each Vacuum Pump)
- System Components Include:
 - (2) TEFC Electric motors, 230/460 Volt, 3 Phase, Premium Efficiency.
 - (2) Flexible Couplings
 - (2) Fabricated Steel Baseplates Mounted on Common Base.
 - (2) Patented DX5 Discharge Separator-Reservoirs with 5 Stage Air/Oil Separation, Including Coalescing Filter.
 - (2) Seal Fluid Isolation Valves
 - (2) Y-Strainers
 - (2) Service Liquid Solenoid Valves, 24VDC.
 - (2) Separator Drain Valves
 - (2) Separator Sight Level Gauges
 - (2) Temperature RTD for Discharge Temperature Indication and High Temperature Protection.
 - (2) High/Low Oil Level Switches
 - (2) Air-Cooled, Heat Exchanger Packages with Main Motor Driven Fan and Fan Guard.
 - (2) Inlet Check Valves
 - Inlet Manifold Including:
 - (2) Inlet Isolation Valves
 - (2) Inlet Flex Connectors
 - Manifold Piping
 - Discharge Manifold Including:
 - (2) Individual Pump Drip Legs
 - (2) Discharge Check Valves
 - (2) Discharge Flex Connectors
 - Manifold Piping
 - (2) Sets of Hydraulic Hose Seal Fluid Line.
 - **(2) Inlet Filters-Solberg ST-HV Series 3" (Specification and Data Sheet Attached)**
 - (2) Vacuum Relief Valves
 - (1) Oversized Common Base-(provisions for future expandability)
- Vacuum Receiver
 - (1) Vertical Vacuum Receiver 400 Gallon.
 - (1) Receiver Sight Level Gauge
 - (1) Receiver Drain Valve
 - (1) Receiver Isolation Valve
- Electrical:
 - (2) Variable Frequency Drive Control IDEK Control Panel
 - Monitors, measures, and displays performance

4330 Redwood Highway, Suite 100
San Rafael, CA 94903
Tel 415 507-9373 Fax 415 507-9376

- 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
- ***(2) VFD's-Variable Frequency Drive***
- ***BacNet and Dry Contacts Adder***