

# AES Group, Inc.

*Sales ▪ Construction ▪ Service*

- AES-Dekker Laboratory Vacuum System Model AES-VMX0153MA2-40-DS
  - (2) Dekker Titan single stage 10HP liquid ring vacuum pump skids.
  - Capacity each vacuum pump 46 SCFM @ 21" HG VAC \*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.
  - **Oil is Not used as a lubricant**
  - System Components Include:
    - (2) TEFC Electric motors, 230/460 Volt, 3 Phase, Premium Efficiency.
    - (2) Patented DX5 Discharge Separator-Reservoirs with 5 Stage Air/Oil Separation, Including Coalescing Filter.
    - (2) Seal Fluid Isolation Valves
    - (2) Y-Strainers
    - (2) Seal Fluid Line Check Valves
    - (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
    - (2) Vacuum Relief Valves
    - **Common Baseplate to include (2) individual skids designed to fit thru 36" door.**
  - Vacuum Receiver
    - (1) Vertical Vacuum Receiver 120 Gallon
    - (1) Receiver Isolation Valve
    - (1) Receiver Sight Level Gauge
    - (1) Receiver Drain Valve
  - Electrical:
    - (1) Duplex Control DEK 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 for General Fault Alarm
  - Solberg HV Series Filter UL234/2G-400C (Shipped Loose for Field Installation)
  - Vibration Isolation by others, unless otherwise directed.

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