



## Control Panel Specifications

- UL listed control panel has a NEMA 12 enclosure.
- Externally operable circuit breakers with door interlocks, control circuit transformers with fused primary and secondary circuits, H-O-A switches and magnetic starters with three leg overload protection.
- Touch screen monitor displays the hours of operation of each pump, settings of the system and indicates any faults.
- Lighting on the H-O-A switches indicates which pump is running.
- Audible and visual local alarms are included for all required alarms and manufacturer recommended alarms.

- All control and alarm functions shall remain energized while any compressor in the system remains electrically online.
- The lag compressor shall be able to start automatically if the lead compressor fails to operate.
- Alarm contacts are provided for remote annunciation for all alarm points.
- Alarm logging within the control panel PLC (premium only).
- Ethernet connection for remote panel control (premium only).

# Rotary Vane Vacuum System

## Specifications

- Meets or exceeds the requirements of NFPA 99.
- Package contains: lubricated rotary vane vacuum pumps, associated piping and valves, one ASME air receiver and one control panel.
- System intake, exhaust and power connection at the control panel are the only field connections required.
- Air inlet and electrical shall be completely pre-piped and pre-wired to a single point service connection.
- All interconnecting piping and wiring are completed and operationally tested prior to shipment.
- Liquid tight conduit, fittings and junction boxes for all control and power wiring are provided.

## Vacuum Pump

- The medical vacuum pump shall be of the rotary vane air-cooled design with integral, fully recirculating oil supply with sight glass to indicate oil level.
- The oil separation system shall be integral and shall consist of no less than three stages of internally installed oil and smoke eliminators.
- This system shall be capable of removing 99.9+ percent of all oil and smoke particles from the exhaust. Each pump shall include a built-in, anti-suck-back valve mounted at the pump inlet and each pump shall be equipped with three non-asbestos vanes.

## Vacuum Pump Drive

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

## Vibration Isolation System

The pumps and motor are fully isolated from the package base by means of rubber mounts.

## Vacuum System Accessories

Inlet and discharge flexible connectors, inlet check valves, inlet isolation valves, gauge exhaust tee with drip-leg and drain cock valve as well as poly tubing with DISS fitting for vacuum transducer.

## Intake Piping

- Each vacuum pump shall have a factory piped intake with integral flex connector, isolation valve and check valve.
- Interconnecting piping shall consist of iron/galvanized pipe and fittings.

## Vacuum Receiver

- ASME construction.
- The receiver shall be rated for full vacuum service and shall be equipped with a manual valve drain.
- Rated for a minimum 200 psig design pressure.

Furnish and install, where shown on the drawing, a prefabricated desiccant air treatment system as manufactured by Amico Source Corporation.

The service of a factory trained representative shall be made available at job site to check installation and start up as well as train operating personnel in proper operation and maintenance procedures. A start-up form shall be completed at the time of start-up by a factory trained representative.

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