

- A. The automatic controller shall provide total control of the system's filtration and regeneration cycles, and provide all necessary equipment interlocks and timing mechanisms to execute the filter program.
- B. The controller shall contain a microprocessor that will monitor all functions of the system.

**The controller shall also control the operation of the following functions:**

- Bump cycle / manual or automatic
- Precoating of the filter elements
- Stopping and starting of the main recirculating pump
- Opening and closing of pneumatically operated valving
- Vacuum transfer system
- Heater cool down delay
- Auxiliary contacts to interlock chemical control or other equipment

**The controller panel shall display the following functions:**

- Filter status
- Precoat status
- Recirculating pump status
- Vacuum transfer pump status

- C. The controller enclosure shall be a NEMA type 12 industrial enclosure.
- D. The main recirculating pump starter shall be located in a separate cabinet and include a VFD, that is interlocked with the filter controller.

