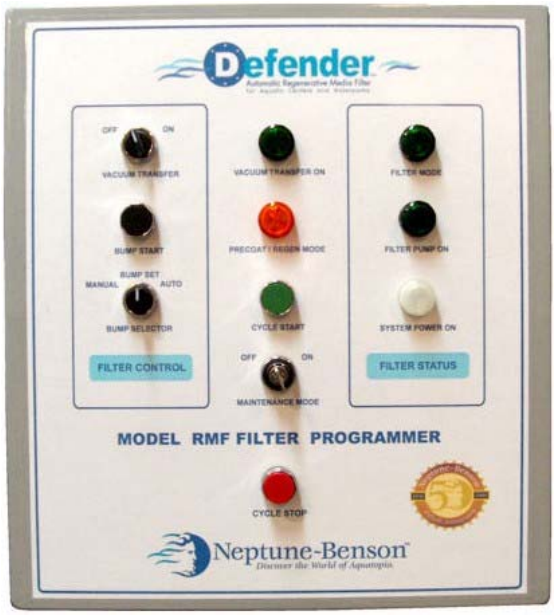

A. The automatic controller shall provide total control of the system's filtration and regeneration cycles, and provide all necessary equipment interlocks and timing mechanisms to execute the filter program.

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
- Keyed switch to activate continuous, Intermittent bump cycle for flex tube cleaning.

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 include a separate (off-manual-automatic) hand switch, that is interlocked with the filter controller. The starter shall be a soft start device.

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