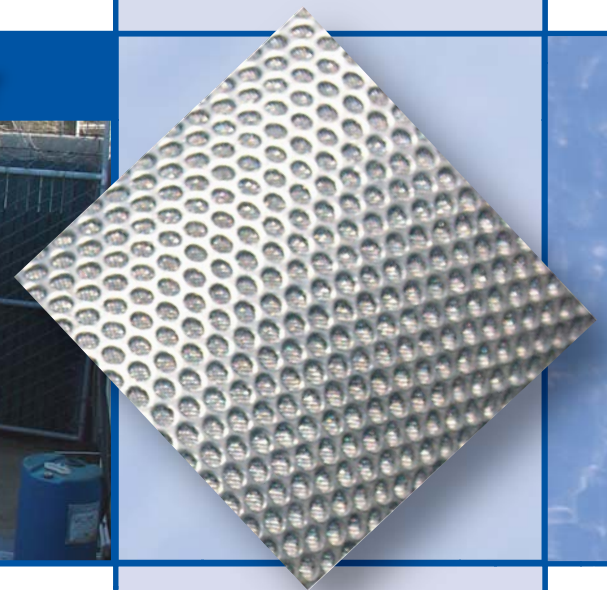
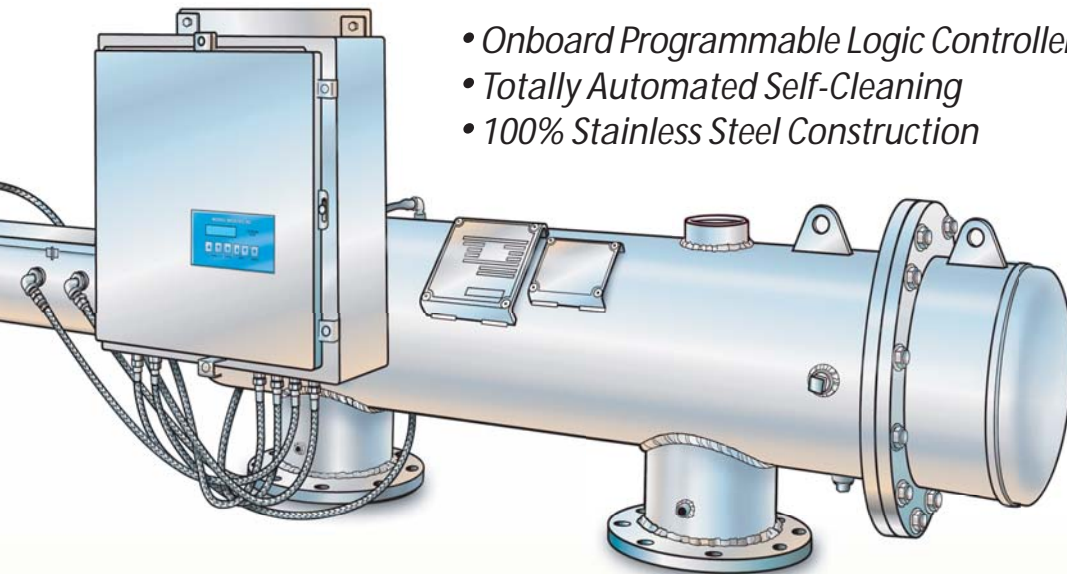


# The DAYTONA Automatic Screen Filter



## The Latest Technological Breakthrough in Automated Screen Filtration!



- *Onboard Programmable Logic Controller*
- *Totally Automated Self-Cleaning*
- *100% Stainless Steel Construction*

### HOW THE DAYTONA FILTER WORKS

The Daytona Automatic Self Cleaning Filter is an advanced, yet easy to operate automatic filter, with a self-cleaning mechanism driven by an electric motor. The Daytona is designed to work with a wide range of filtration requirements from .0277" down to .0006" (705 -15 microns).

#### Filtering Process:

The water enters through the filter inlet pipe and flows through the screen from the inside to the outside. The "filter cake" (contaminants) accumulates on the screen surface and causes a pressure-differential to develop between the filter inlet and outlet. A pair of pressure transducers read the differential (usually set at 8 psi) and signal the controller to start the cleaning operation.

#### Self-Cleaning Process:

The Daytona initiates the self-cleaning process when either the pressure-differential across the screen reaches a pre-set value or the flush timer reaches its pre-set time interval. During the flush (scanning) cycle the Daytona's exhaust flush valve opens to flush the scanner. When the exhaust flush valve is open the scanner drive motor is activated and the scanner rotates in a spiral motion (rotational and linear motion) removing the contaminants from the screen. When the exhaust flush valve is opened the differential pressure between the water inside the filter and the atmosphere outside the filter creates a high suction force at the openings of each of the suction scanner nozzles. This suction force causes water to flow backwards through a small area of screen in front of each nozzle, pulling the contaminants off the screen and sucking it into the suction scanner nozzle and out through the exhaust valve to waste. The cleaning cycle is completed in approximately 45 seconds.

#### System Features:

- Automatic, Self-Cleaning
- Substantial Screen Surface Area
- Simple Construction
- Easy Installation & Operation
- No Interruption of Flow
- Electrically Driven Cleaning Mechanism
- Type 304 or 316 Stainless Steel

#### Typical Applications:

- Process Cooling Water
- Waste Water Filtration
- Cooling Tower Water
- Spray Nozzle Protection
- Potable Water
- Make-Up Water
- Irrigation
- Membrane Pre-Filtration
- Intake Water
- Seal Protection
- Food Processing
- Filter Backwash Reclamation
- Deep Well Injection
- Compressor Protection

