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# LiquiTech

## LiquiTech® Sediment Filtration System

The LiquiTech® Sediment Filtration System removes sediment from your water that can damage pipes and other water-bearing equipment, degrade water quality, and encourage bacteria growth. With self-cleaning stainless-steel filters and a smart control system, this system is durable, sustainable, cost-effective, and water-efficient.

### Smart features

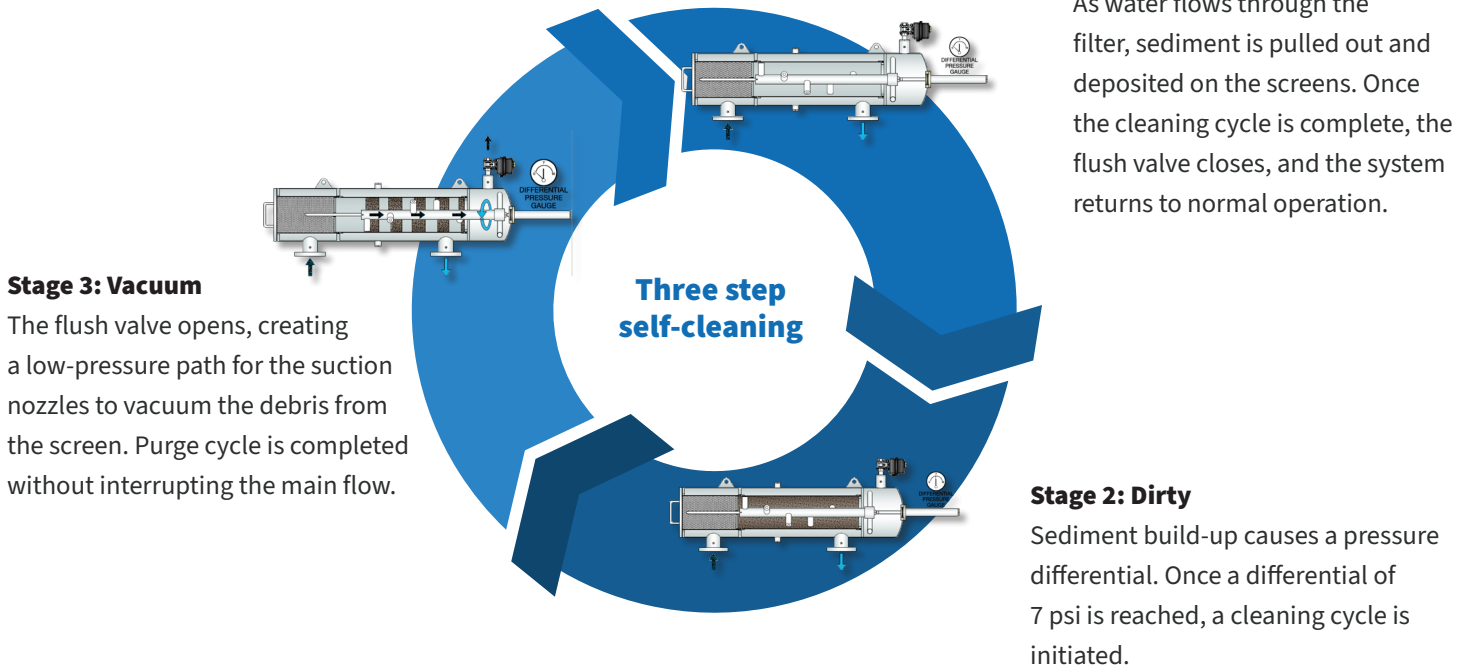
**Smart:** A controller with a touchscreen display constantly monitors the status and operation of the system, initiating self-cleaning cycles and sending out alarm notifications if issues occur.

**Remotely monitored:** A remote monitoring system tracks and logs data 24/7, providing real-time diagnostics, troubleshooting, and reporting by LiquiTech engineers.

### Key benefits

- » **Improved water quality:** Removes incoming sediment that can damage equipment, reduce the efficacy of secondary disinfection, and provide a nutrient source for bacteria.
- » **Water-efficient:** Uses very little water, typically operating at 99% water efficiency.
- » **Long-term savings:** Removes sediment to prevent premature damage to plumbing equipment, so it lasts longer and requires less maintenance.
- » **Low maintenance:** Stainless steel filters and self-cleaning technology, mean no filters to replace, saving staff time, money, and waste.

## How it works



### Stage 1: Clean

As water flows through the filter, sediment is pulled out and deposited on the screens. Once the cleaning cycle is complete, the flush valve closes, and the system returns to normal operation.

### Stage 2: Dirty

Sediment build-up causes a pressure differential. Once a differential of 7 psi is reached, a cleaning cycle is initiated.

### Stage 3: Vacuum

The flush valve opens, creating a low-pressure path for the suction nozzles to vacuum the debris from the screen. Purge cycle is completed without interrupting the main flow.

## Technical specifications

- » Flushing volume: Typically less than 0.01% of total water use per gallon
- » Flush flow rate: 60–320 GPM
- » Flush duration: 6-8 seconds per filter
- » Line sizes: 2”–12”
- » Screen opening: 5-100 microns
- » Filtration material: Sanitary 316 stainless steel
- » Pressure: 45–200 PSI
- » Temperature limit: 160°F
- » Flow rate: 10–20,000 GPM
- » Solely works on water pressure
- » Measures, records, and stores flow differential, inlet pressure, outlet pressure, and flushes per hour
- » Alarms and alerts when outside of parameters
- » Remote monitoring by LiquiTech’s engineering staff
- » Connects with building management systems
- » Local dynamic visualization of system operation
- » NSF 61 approved and certified
- » Sanitary 316 stainless steel media and 304 stainless steel housing
- » Skids available