

# Sigma

Groundbreaking multi-screen polymeric,  
self-cleaning filter for irrigation

- Unique mechanical components
- Polymeric housing and parts
- Innovative compact design



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# Sigma Highlights



## Multi-screen filter

Sigma includes five screens to create a large, 6000 cm<sup>2</sup>/930 in<sup>2</sup> filtration area relative to its compact size. This enables the state-of-the-art filter to handle high flow rates while maintaining a small footprint and reducing startup costs.



## Unique mechanical components

Run by an advanced single hydraulic turbine and a smart gear, Sigma significantly reduces running costs. Requiring no power source and operating at a minimum pressure of 1.5 bar/22 psi during the flush cycle, the solution lowers energy consumption. Based on Amiad's suction-scanning screen technology, Sigma carries out automated focused flushing to reduce self-cleaning frequency. And by utilizing less flushing water while continuously filtering, Sigma further lowers overall water consumption.



## Polymeric housing and parts

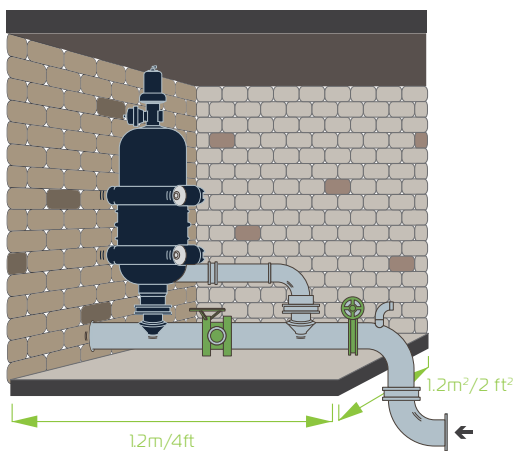
The only hydraulic multi-screen filter made from polymeric materials, Sigma is fully resistant to corrosion. As such, Sigma is a high-quality, durable and reliable filter that operates effectively regardless of water type, including saline water, and the presence of chlorine and other chemicals.



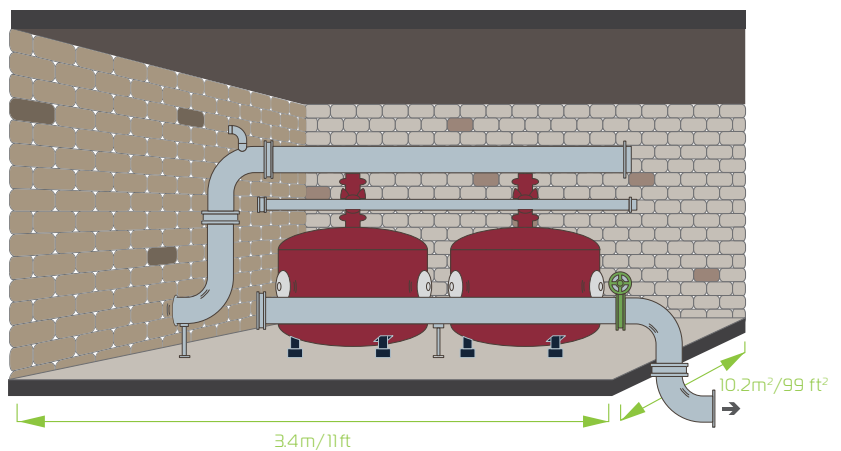
## Innovative compact design

Featuring a lightweight modular design, Sigma is a flexible, user-friendly solution. System installation and maintenance are both easy and inexpensive – only two field workers are needed to rapidly set up Sigma, while personnel do not require special tools or expertise to install or maintain the filter. With a small footprint compared to alternative solutions, Sigma significantly lowers infrastructure preparation and installation costs.

**1 Sigma Filter System** Footprint – 1.2m<sup>2</sup>/2 ft<sup>2</sup>



**2 x 48" Sand Filter Systems** Footprint – 10.2m<sup>2</sup>/99 ft<sup>2</sup>



Based on an innovative compact design, Sigma features a very large filtration area, while maintaining a small footprint compared to alternative filter systems. As a result, the cutting-edge solution significantly lowers infrastructure preparation and installation costs.

# Cutting-Edge & Cost-Effective

Continuously setting the standard in water filtration, Amiad offers Sigma, the latest in its line of cutting-edge, environmentally-friendly and cost-effective water filtration solutions. A multi-screen polymeric, self-cleaning filter powered by an innovative hydraulic turbine, the groundbreaking solution improves filtration across diverse agricultural, greenhouse and landscaping irrigation applications to meet the full range of customer needs. Featuring a compact design, a large filtration area, and durable plastic housing, Sigma significantly lowers users' startup and running costs.

## Sigma Features

### **Five filter screens –**

for creation of a large filtration area relative to its size and handling of high flow rates per area

### **Suction-scanning screen technology –**

for automated cleaning only when required

### **Hydraulic turbine –**

for reduction of energy consumption

### **Smart gear –**

for utilization of less flushing water while continuously filtering

### **Polymeric housing and internal parts –**

for increased reliability and durability regardless of water type and chemical presence

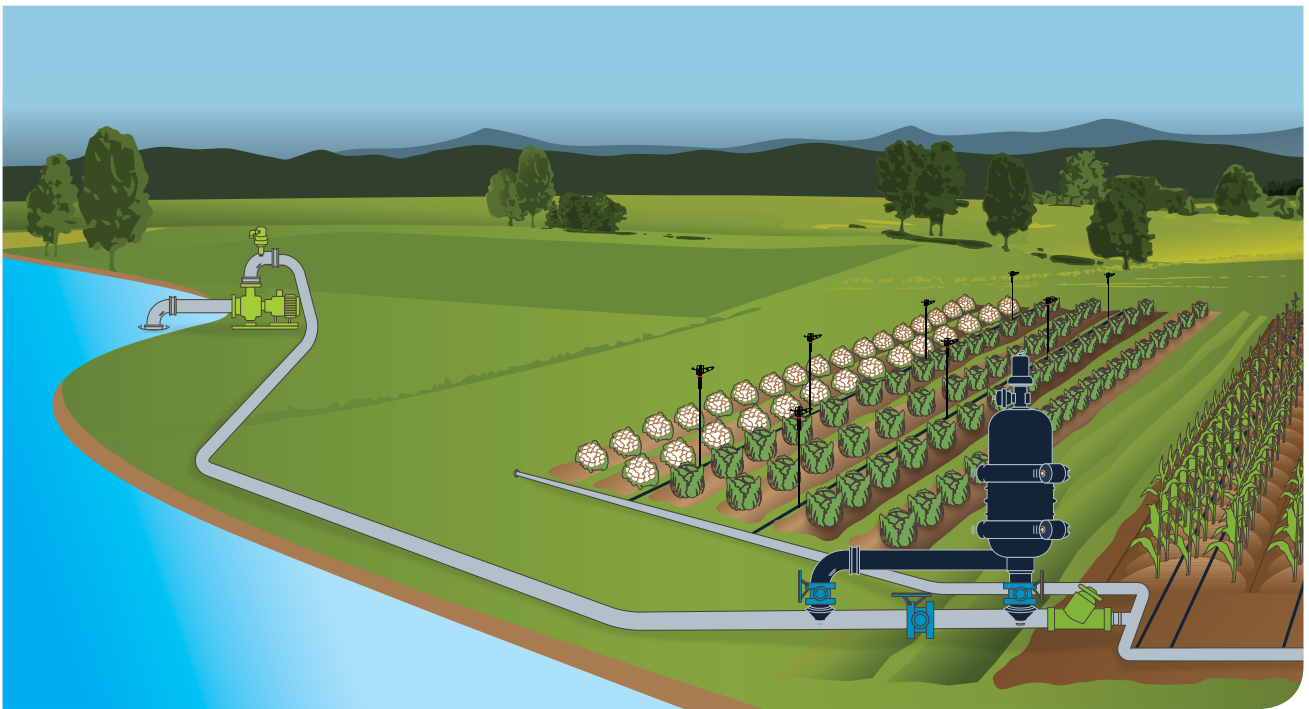
## Sigma Benefits

### **Lower Capital Expenditures (CAPEX)**

- Less infrastructure preparation
- Smaller installation area
- Minimal installation equipment
- Fewer filters and accessories
- No required power source

### **Lower Operating Expenditures (OPEX)**

- Lower water consumption
- No maintenance equipment
- Reduced replacement costs
- Lower labor requirements
- Minimal energy consumption



## Sigma System Architecture

Sigma improves filtration across a range of agricultural, greenhouse and landscaping irrigation applications. Handling high flow rates per area, the corrosion-proof solution is reliable and durable regardless of water source and the presence of chemicals.

## Sigma Design

Featuring a lightweight, modular and compact design, Sigma is easy to set up and maintain, and is adaptable to any existing installation.

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