

C53 Series 1–3” Filtration Systems

High-Performance Commercial Filtration for Chlorine, Iron & Particulates

- Consistent particulate reduction to support downstream equipment
- Designed for sustained service flow in commercial applications
- Flexible system sizing to match variable site demands
- Automated operation minimizes operator involvement
- Built for continuous commercial duty environments



The A. O. Smith C53 Series is a modular commercial filtration platform designed to address a wide range of water quality challenges, including chlorine reduction, iron filtration, neutralization, and particulate removal. Built with a durable stack-and-piston valve design and controlled by IQ2 electronics, the C53 provides long-term reliability, simplified servicing, and consistent performance—whether used as a stand-alone filtration system or paired as pre-treatment for softening. Its flexible configuration options support single through six unit designs, allowing the system to scale with facility needs.

Features

- **Up to six-unit configurations** for scalable system design
- **Fiberglass-reinforced tanks** for superior corrosion resistance
- **Fully adjustable regeneration cycles** including Alternate Cycle Sequencing (ACS) and Water Efficient Technology (WET) efficiency modes
- **Wide range of media types** to address diverse filtration needs
- **IQ2 technology** for enhanced performance data and diagnostics
- **NSF-certified components** for trusted quality

Options

- Progressive flow
- Separate source backwash
- Backwash air technology
- ASME vessels (18" and larger)

C53 Filter – System Components & Performance

Controller



The IQ2 controller offers real-time diagnostics, 90-day usage history, peak-flow data, detailed regeneration information, and plug-and-play configuration. Data is accessible via USB or live through Ethernet, while LED indicators clearly communicate system status. Battery backup protects all stored settings and usage history.

Control Valve



A one-piece cartridge-and-piston valve assembly provides reliable long-term operation and easy servicing. 1" - 1.25" sizes use durable Noryl® composites, while 1.5" - 3" sizes use solid lead-free brass valves with stainless steel meters for superior mechanical strength.

Filtration Media

The C53 Series accommodates multiple media types— Birm , Turbidex, Calcite, Corosex, Carbon, Greensand Plus and Multilayer—allowing the system to address chlorine reduction, iron removal, particulate filtration, and neutralization within a single platform.



Optional System Controller



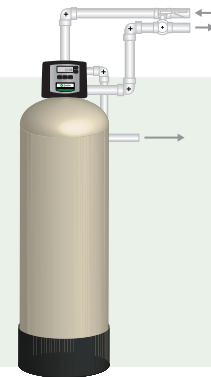
The optional system controller manages up to six filtration units and provides centralized access to system data, including water-usage history, peak flow, and totalizer readings. It supports USB exporting and Ethernet monitoring, while its battery backup preserves system settings.



Shown: Select applications.

The C53 Series supports a broad range of commercial uses.

Explore all applications at aosmith.com/commercialwatertreatment



Note: This system is not intended for the treatment of microbiologically unsafe water without adequate disinfection.

