

C63 Series 1–3” Dealkalizers

High-Capacity Alkalinity Reduction for Demanding Boiler Systems

- Peak flow rates up to 160 gpm
- Piping sizes from 1” to 3”
- Tank diameters up to 48”
- Scalable single to quad-tank configurations
- Designed for continuous commercial and industrial boiler service



The A. O. Smith C63 Series Dealkalizers are engineered for high flow commercial and industrial boiler applications requiring effective alkalinity reduction and dependable system operation. Using proven chloride-cycle dealkalization, the C63 Series helps lower blowdown rates, reduce condensate corrosion, and improve overall boiler water chemistry control.

Available in scalable single through quad-tank configurations (with multi unit control capability), the C63 platform combines durable construction, advanced IQ2 electronic controls, and flexible operating modes to meet the needs of complex mechanical systems.

Features

- **Single, twin, triplex, or quad system** configurations
- **Top-mounted solid brass control valves** with motor-driven pistons
- **Five cycle regeneration valve** controlling backwash, brine draw and slow rinse, fast rinse, brine refill, and service
- **High-capacity virgin polystyrene resin** for superior operating efficiency
- **Fiberglass-reinforced mineral tanks** for corrosion resistance and long service life
- **Corrosion-resistant brine tanks** with automatic control
- **Automatic self-adjusting backwash** flow control
- **NSF-certified components** for material and system confidence

Options

- Progressive flow operation
- ASME-rated tanks (18” diameter and larger)
- Caustic injection system
- Separate source regeneration capability (on applicable configurations)
- Multi-unit system controller with IQ2 electronics

C63 Dealkalizer – System Components & Performance

Controller



The C63 Series features IQ2 electronic controls delivering advanced system diagnostics and operational flexibility. Available configurations support:

- Single metered operation
- Parallel metered operation
- Alternating operation
- Demand recall with progressive flow

The IQ2 platform provides 90-day water usage history, peak flow tracking, totalizer data, and regeneration status indicators. System information can be viewed on-screen or downloaded via USB, with optional Ethernet connectivity for live system monitoring. Battery backup protects programming and historical data.

Multi-unit system controllers can manage up to six total units, coordinating operation to maintain consistent treated water supply while optimizing efficiency.

Control Valve



C63 systems are equipped with one-piece cartridge and piston control valves designed for durability and simplified service. 1" - 1.25" valve sizes utilize high-performance Noryl® construction, while 1.5" - 3" valves feature solid lead-free brass bodies with stainless steel meters to support higher flow rates and demanding environments.

Dealkalization Media

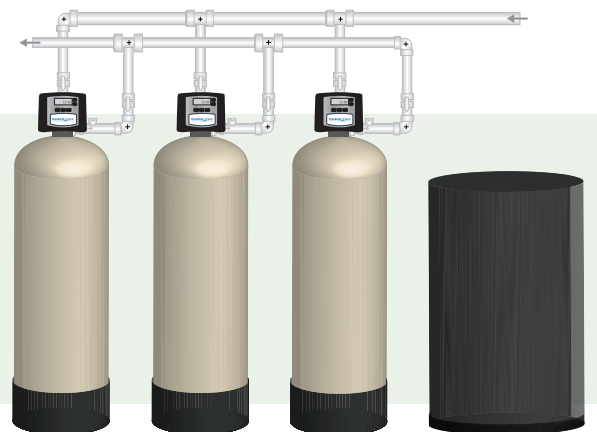
The C63 Series uses high-capacity virgin polystyrene resin engineered for chloride-cycle alkalinity reduction. By lowering bicarbonate alkalinity, the system reduces CO₂ formation, improves condensate quality, and supports more efficient boiler operation.



Shown: Select applications.

The C63 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.

