



### Markets Served:

- Clinics
- Educational Facilities
- Energy / Power
- Food / Beverage Production
- Food Service / Restaurants
- Grocery
- Healthcare / Hospitals / Bio-Pharmaceutical
- Hospitality / Lodging
- Manufacturing
- Municipal Drinking Water
- Oil / Gas

## The Culligan Side Mount CSM™ Series HEAVY DUTY DEALKALIZER SYSTEM

### Efficient and Scalable Heavy-Duty Water Treatment System

When your water quality requirements include reducing alkalinity, choose the Culligan Side Mount heavy-duty commercial dealkalizer for high volume low-flow conditioning. The CSM heavy-duty commercial dealkalizer complements your Culligan CSM water softening system by reducing carbonates in hard water after softening. Manage your system using the Culligan®-exclusive Smart Controller, and let settings triggered by flow, time, or water quality sensors automate regeneration. The CSM dealkalizer improves your water and reduces residue on your equipment.

The CSM dealkalizer is part of the Culligan® Commercial and Industrial Solutions that combine durable and efficient equipment, systems experience, and technical experts who understand your unique requirements. From planning your system to installing your water treatment equipment, Culligan® Commercial and Industrial Solutions offer options that help deliver the quality of water to meet your needs. Your investment in treated water pays off when you work with the best equipment and people. Contact Culligan® today to learn more about the CSM dealkalizer.

### CULLIGAN® COMMERCIAL & INDUSTRIAL ADVANTAGES:

- Simple System Integration
- Global Product Platform
- Flexible Configurations
- Quick Delivery / Easy Installation
- Exclusive Culligan Advanced Electronics
  - Historical Operating Data
  - Alarm Recognitions
  - US Standard and Metric Readings
  - Remote Monitoring Options
  - Telemetry Options

*\*Contaminants may not necessarily be in your water.*



**PRE-TREATMENT SOLUTIONS.**

# SYSTEM SPECIFICATIONS

## Warranty

Culligan's CSM dealkalizer are backed by a limited 1-year warranty against defects in material, workmanship and corrosion. In addition, tanks are warranted for a period of 5 years.†

† See printed warranty for details. Culligan® will provide a copy of the warranty upon request.

Specification	US	Metric
Inlet Pressure (dynamic)	30–100 psig	210–690 kPa
Power Voltage Frequency Phase	120 Volts 50/60Hz	
Feed Water Temperature	40–120° F	4–49° C
Turbidity Chlorine Iron	5 NTU, max. <sup>2</sup> 1 mg/L, max. <sup>2</sup> 5 mg/L, max. <sup>2</sup>	

1 120 Volt/24 Volt CUL/UL listed Transformer Included.  
2 See media specification for details.

## Examples of Dealkalizer Applications

- Educational Facilities—Boiler and cooling tower make-up water for improved energy costs
- Apartment buildings, assisted living facilities and hotels—Quality water for boilers
- Grocery / Retail—Quality water for aesthetics and help extend equipment life
- Light industry—For process and make-up water, boiler and cooling system pretreatment
- Office buildings—For heating plant pretreatment

## Standard Features

- Single, Multiple Tank Configurations—Flow rates up to 100 gpm per tank
- Culligan's Smart Controller—More control over your equipment with programming and monitoring capabilities typically found in more expensive PLC controls, a variety of add-on options for advanced instrumentation and communication let you easily customize the system to help meet your needs
- Telemetric Capability
- Regeneration initiation by choice or combination of time clock, meter
- Culligan's Multiport Valve – Our guided perimeter-designed diaphragm valves are built with reinforced rubber components to resist damage from particulates in the water and ensure smooth operation free of water hammer. The inside and outside surfaces of the valve are electro-coated to deter corrosion. The valve was designed with serviceability in mind; accessibility for installation and maintenance won't be an issue.
- Corrosion resistant tanks—Made of low carbon steel with epoxy interior lining and finish coat painted exterior

## Optional Features & Accessories

- Corrosion resistant brine system construction for long life
- Skid Mounted—Fully pre-piped and wired systems for single point field utility connection of inlet, outlet, drain and power supply
- Patented Progressive Flow—Culligan's Smart Controller can monitor flow demands bringing additional tanks on-line or offline as flows increase or decrease
- ASME Code Tanks
- Brine Reclaim—Reduces operating costs
- Flow Measuring Devices—Available for direct connection to the Culligan® Smart Controller for volume based regeneration initiation
- Remote Display
- RS232, RS485, Modbus PLC Output

## CSM Dealkalizer System

Model	Resin Qty. (ft <sup>3</sup> /L)	Pipe Size (in/mm)	Flow Rates (gpm@psi / lpm@kPa)		Tank Size*** (in/mm)	
			Continuous*	Peak**	Resin Tank	Brine Tank****
CA-242	6.5	2	16 @ 2	32 @ 4	24 x 54	24 x 48
	184	2	60.6 @ 13.8	121.1 @ 27.6	610 x 1,372	610 x 1,219
CA-302	12	2	25 @ 2	50 @ 6	30 x 60	24 x 48
	340	2	94.6 @ 13.8	189.3 @ 41.4	762 x 1,524	610 x 1,219
CA-362	18	2	35 @ 3	70 @ 9	36 x 60	30 x 48
	510	2	132.5 @ 20.7	265 @ 62	914 x 1,524	762 x 1,219
CA-422	25	2	50 @ 5	100 @ 16	42 x 60	36 x 48
	708	2	189.3 @ 34.5	378.5 @ 110.3	1,067 x 1,524	914 x 1,219

\* Flow rate is based on pressure drop.

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\*\*\* Dimensions are diameter by tank height.

\*\*\*\* Brine systems are optional.

Flow rates shown are per tank.

Low flow channeling (flow rates less than 0.5 gallons per minute per cubic foot of resin) may cause leakage into effluent.

CSM product formerly sold under the Bruner label.



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For over 80 years, Culligan® has made better water. Our global network, comprised of 800+ dealers and international licensees in over 90 countries, is dedicated to addressing your water-related problems. As a worldwide leader in water treatment, our sales representatives and service technicians are familiar with the local water conditions in your area. Being global and local position us to deliver customized solutions to commercial and industrial water issues that affect your business and your bottom line.

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