



## The Culligan® Top Mount Series WATER DEALKALIZER SYSTEM

Superior Flow. Superior Savings. Superior Water for Commercial and Industrial Needs.

The Culligan® Top Mount (CTM) Series Dealkalizer models use the latest control valve technology to offer superior flow rates and long-lasting performance for commercial and industrial applications. The top-mounted control minimizes the system's footprint and is constructed of a corrosion-resistant, heavy duty plastic tested in extreme operating conditions to service all types of problem water (high chloramines, heavy iron, etc.). The CTM includes integrated vacuum breakers and pressure relief valves to protect the system in addition to possessing an integrated flow meter for highly accurate reporting. Each CTM operates with a Culligan® Smart Controller which provides users access to the Culligan® technology platform of intercommunicating systems, optional remote monitoring and water and energy saving accessories.

The CTM Dealkalizer Series forms part of the Culligan® Commercial and Industrial product portfolio that has been offering durable, high-quality equipment to the world for over 85 years. For those customers who need a more customized solution Culligan's application engineering and project management team will provide professional, technical expertise through the initial project scope to the expedited delivery and start-up process. Our expansive dealership network will provide aftermarket support and technical expertise and trusted service to users in every market. Contact Culligan® today to learn more about the CTM and other water treatment products.

### Markets Served:

Clinics  
Educational Facilities  
Energy / Power  
Healthcare / Hospitals / Bio-Pharmaceutical  
Hospitality / Lodging  
Manufacturing  
Municipal Drinking Water  
Oil / Gas

### CULLIGAN® ADVANTAGES:

- Global Product Platform with Flexible Modular Configurations
- Simple Integration into Existing Systems
- Quick Delivery & Installation
- Exclusive Culligan Features
  - Universal Electronic Controller
  - Progressive Flow and Other Operational Cost-Saving Technology
  - Optional Remote Monitoring Capabilities with Multiple Alarm Recognitions
  - Cloud Storage for Historical Data
  - U.S. Standard and Metric Readings with Multiple Interface Languages for Programming Interface



PRE-TREATMENT SOLUTIONS.

# SYSTEM SPECIFICATIONS

## Warranty

Culligan's CTM Water Dealkalizers are backed by a limited **3-year warranty** against defects in material, workmanship and corrosion. In addition, softener tanks are warranted for a period of 5 years.<sup>†</sup>

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

Some localities have corrosive water. A dealkalizer cannot correct this condition, so its printed warranty disclaims liability for corrosion of plumbing lines, fixtures, or water-using equipment. If you suspect corrosion, your independently operated Culligan® dealer has equipment to help control the problem.

## System Specifications

Specification	US	Metric
Operating Pressure for CTM	50 dynamic psi-125 psi	345 - 862 kPa
Operating Pressure for CTM 2.0	30 dynamic psi-125 psi	207 - 862 kPa
Power Voltage Frequency	120 Volts <sup>1</sup> 50/60Hz	
Feed Water Temperature	40–120° F	4–49° C
Vacuum	None <sup>2</sup>	None <sup>2</sup>
Turbidity Chlorine Iron	5 NTU, max. <sup>3</sup> 1 mg/L, max. <sup>3</sup> 5 mg/L, max. <sup>3</sup>	

<sup>1</sup> 120 Volt/24 Volt cUL/UL listed Transformer Included.

<sup>2</sup> FRP tank warranty is void if subject to vacuum

<sup>3</sup> See media specification for details.

## Examples of Dealkalizer Applications

- Educational Facilities—Boiler and cooling tower make-up water for scale reduction and improved energy costs
- Apartment buildings, assisted living facilities and hotels—Quality water for laundry, dishwashers, boilers
- Light industry—For process and make-up water, boiler and cooling system pretreatment, general housekeeping
- Office buildings—For heating plant pretreatment, tenant convenience, general housekeeping

## Standard Features

- Single (no bypass) or Multiple Tank Configurations available for alkalinity removal capacities up to 181,000 grains per tank
- Continuous flow rates up to 60 gpm per tank. Peak flow rates up to 80 gpm per tank
- Corrosion-resistant control valve body certified to drinking water applications
- Integrated flow meter, vacuum breaker and pressure relief valve
- Downflow regeneration-type controllers available with your choice of initiation (time clock, meter inputs)
- No special tools required for servicing

## Optional Features & Accessories

- 1.5" or 2" Flow adapters are available to provide every CTM unit the flexibility to use different inlet pipe sizes with minimal impact to flow rates
- Patented Progressive Flow—Culligan's Smart Controller can monitor flow demands bringing additional dealkalizer tanks on-line or offline as flows increase or decrease
- Brine Reclaim—reduces operating costs by recycling and making efficient use of brine during regeneration
- Caustic Feed
- Robust piston-valve technology uses retained, radial seals in the body for improved longevity and reliability. Ideal for challenging water conditions
- Remote Display
- Options for Communication Protocols, RS232, RS485, BACnet, Ethernet/IP, Modbus PLC Output

## Culligan® Top Mount (CTM) Water Dealkalizer System

CTM Family Group *	Media Qty. (ft <sup>3</sup> )	Pipe Size** (in)	Service Flow Rates		Tank Size***	
			Minimum 0.5gpm / ft <sup>3</sup>	Peak 4gpm / ft <sup>3</sup>	Dealkalizer (in)	Brine**** (in)
			CTM-DA-14	2	1.5" & 2"	2.1
CTM-DA-16	3	1.5" & 2"	2.8	12	16 x 53	24 x 50
CTM-DA-16T	4	1.5" & 2"	2.8	16	16 x 65	24 x 50
CTM-DA-18	5	1.5" & 2"	3.5	20	18 x 65	24 x 50
CTM-DA-21	7	1.5" & 2"	4.8	28	21 x 62	24 x 50
CTM-DA-24	10	1.5" & 2"	6.3	40	24 x 72	30 x 50
CTM-DA-30	15	1.5" & 2"	9.8	60	30 x 72	30 x 50
CTM-DA-36	20	1.5" & 2"	14	80	36 x 72	39 x 48

\*Each Family Group includes the following control type options:

- Multi-tank with no hard water bypass

\*\* Depending on choice of 1.5" or 2" flow adapter. Flow rates shown are per tank using a 2" flow adapter. Flow rates may be slightly lower when using the 1.5" flow adapter. Low flow channeling (flow rates less than 0.5 gpm per cubic foot of resin) may cause higher leakage into effluent

\*\*\* Dimensions are diameter by tank height. Additional clearance required for value.

\*\*\*\* Brine Systems are optional. Size shown is size most commonly selected.

Dealkalizer capacity ranges from 1213 grains/ft<sup>3</sup> to 9065 grains/ft<sup>3</sup> depending on incoming water quality. See chart below.

All Chloride cycle Dealkalizers require soft water feed.

% Alkalinity Content of Influent Water (Total Alkalinity (OH-, CO <sub>3</sub> -, HCO <sub>3</sub> -) / (Total Alkalinity + Sulfates + Nitrate + Chloride))								
Capacity per ft <sup>3</sup> resin (grains)								
20%	30%	40%	50%	60%	70%	80%	90%	100%
1215	1935	2745	3720	4695	5666	6680	7895	9065



www.culligan.com

For over 85 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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