



The Culligan® Top Mount Series WATER SOFTENER SYSTEM

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

The Culligan® Top Mount (CTM) Series softener 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 valve and system also carry certification for testing and passing the highest drinking water standards. 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, remote monitoring and water and energy saving accessories.

The CTM Softener Series forms part of the Culligan® Commercial and Industrial product portfolio that has been offering durable, high-quality equipment to the world for over 80 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
Food / Beverage Production
Food Service / Restaurants
Grocery
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
 - Aqua-Sensor®, Progressive Flow and Other Operational Cost-Saving Technology
 - 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 Softeners are backed by a limited **2-year warranty** against defects in material, workmanship and corrosion. In addition, softener tanks are warranted for a period of 5 years.[†]

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

Some localities have corrosive water. A softener 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
Inlet Pressure (dynamic)	35–125 psig	240–860 kPa
Power Voltage Frequency	120 Volts ¹ 50/60Hz	
Feed Water Temperature	40–120° F	4–49° C
Vacuum	None ²	None ²
Turbidity Chlorine Iron	5 NTU, max. ³ 1 mg/L, max. ³ 5 mg/L, max. ³	

¹ 120 Volt/24 Volt CUL/UL listed Transformer Included.

² FRP tank warranty is void if subject to vacuum

³ See media specification for details.



Tested and Certified by WQA to NSF/ANSI 61 and 372

Examples of Softener Applications

- Food and Beverage—Improved taste
- Educational Facilities—Boiler and cooling tower make-up water for scale reduction and improved energy costs
- Restaurants—For dishwashing, cleaning material savings, scale reduction
- RO / DI Pretreatment
- Car washes—Quality results, detergent and water heating savings, scale reduction
- Apartment buildings, assisted living facilities and hotels—Quality water for laundry, dishwashers, 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, general housekeeping
- Office buildings—For heating plant pretreatment, tenant convenience, general housekeeping

Standard Features

- Single or Multiple Tank Configurations available for hardness removal capacities up to 450,000 grains per tank*
- Continuous flow rates up to 76 gpm per tank. Peak flow rates up to 104 gpm per tank
- Corrosion-resistant control valve body certified to drinking water applications
- Integrated flow meter, vacuum breaker and pressure relief valve*
- Downflow and upflow (Counter-current) regeneration-type controllers available with your choice of initiation (time clock, meter or Aqua-Sensor® inputs)*
- Telemetric data capabilities with remote monitoring

- No special tools required for servicing
- Robust piston-valve technology uses retained, radial seals in the body for improved longevity and reliability. Ideal for challenging water conditions
- Control complies with CUL, CE, UL 50/50E and UL 746C standards for NEMA 3R enclosure rating

* Multi-tank, upflow configurations and integrated components are not available for time clock models.

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 softening tanks on-line or off-line as flows increase or decrease
- Brine Reclaim – reduces operating costs by recycling and making efficient use of brine during regeneration
- Aqua-Sensor® Control – initiates regeneration only when needed based upon water hardness, automatically adjusts to changes in raw water hardness and water consumptions

- Remote Display
- RS232, RS485, Modbus PLC Output

Culligan® Top Mount (CTM) Water Softener System

CTM Family Group *	Media Qty.	Pipe Size**	Service Flow Rates		Tank Size***	
					Softener	Brine****
			(ft ³ / liters)	(in / mm)	(in / mm)	(in / mm)
CTM-60	2	1.5" & 2"	51	69	14 x 47	24 x 40
	57	25.4 & 50.8	193	261	356 x 1194	610 x 1016
CTM-90	3	1.5" & 2"	57	75	16 x 53	24 x 50
	85	25.4 & 50.8	216	284	406 x 1346	610 x 1016
CTM-120	4	1.5" & 2"	55	72.5	16 x 65	24 x 50
	113	25.4 & 50.8	208	274	406 x 1651	610 x 1270
CTM-150	5	1.5" & 2"	59	76	18 x 65	24 x 50
	142	25.4 & 50.8	223	288	457 x 1651	610 x 1270
CTM-210	7	1.5" & 2"	65	85	21 x 62	24 x 50
	198	25.4 & 50.8	246	322	553 x 1575	610 x 1270
CTM-300	10	1.5" & 2"	70	95	24 x 72	30 x 50
	283	25.4 & 50.8	265	360	610 x 1829	762 x 1270
CTM-450	15	1.5" & 2"	76	104	30 x 72	30 x 50
	425	25.4 & 50.8	288	394	762 x 1829	762 x 1270

*Each Family Group includes the following control type options:
 - Timedlock-only units
 - Downflow & Upflow with hard water or no hard water bypass
 - Multi-tank with no hard water bypass

** Depending on choice of 1.5" or 2" flow adapter

*** Dimensions are diameter by tank height

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

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 hardness leakage into effluent

Culligan®

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For 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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