



# Culligan®



# CTM

THE CULLIGAN® TOP MOUNT SOFTENER SERIES.

SOFTENING



THE CULLIGAN® TOP MOUNT SERIES.

## WATER SOFTENER SYSTEM

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



### HIGH PERFORMANCE

The **Culligan® Top Mount (CTM) Series** softener models use the latest Culligan control valve technology to offer **superior flow rates and long-lasting performance**.



### HEAVY DUTY CONSTRUCTION

The top-mounted control is constructed of a **corrosion-resistant, heavy duty plastic tested** in the most extreme operating conditions and is able to deal with all types of problem water (high chloramines, heavy iron, etc.).



### QUALITY ASSURED

The **CTM valve and system** also carry **certification** for testing and passing the highest drinking water standards.



## ADVANCED FEATURES AS STANDARD



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 the **Culligan Smart Controller** which provides users access to the **Culligan technology platform** of intercommunicating systems, remote monitoring and water and energy saving accessories.

## CULLIGAN® ADVANTAGES

- GLOBAL PRODUCT PLATFORM WITH **FLEXIBLE MODULAR CONFIGURATIONS**
- SIMPLE INTEGRATION** INTO EXISTING SYSTEMS
- QUICK DELIVERY & INSTALLATION**
- EXCLUSIVE **CULLIGAN FEATURES**
  - Universal Electronic **Smart Controller**
  - Single, Duplex and Progressive **Flow configurations**
  - Remote Monitoring Capabilities with **Multiple Alarms**

## MULTI-TANK CONFIGURATIONS

### DUPLEX SYSTEM

In this mode **two softeners operate alternately**, producing treated water **24** hours a day. When the exchange capacity of one softener is exhausted, **the second starts working automatically** allowing the first to regenerate.

### PROGRESSIVE FLOW

Enables **automatic management of multiple units**, bringing units on and off as required to meet peak flow demands. Ideal for space limited areas.

## STANDARD FEATURES

- ✔ **Single or Multiple Tank Configurations available** for hardness removal capacities up to 3888 m<sup>3</sup>x°f per tank
- ✔ **Continuous flow rates up to 18 m<sup>3</sup>/h per tank.** Peak flow rates up to 24 m<sup>3</sup>/h per tank
- ✔ **Corrosion-resistant control valve body** certified to drinking water applications
- ✔ **Integrated flow meter,** vacuum breaker and pressure relief valve
- ✔ **Telemetric data capabilities** with remote monitoring
- ✔ **Designed for fast and easy servicing** - No special tools required
- ✔ **Control complies** with CUL, CE, UL 50/50E and UL 746C standards for NEMA 3R enclosure rating
- ✔ **Robust piston-valve technology** uses retained radial seals in the body for improved longevity and reliability that are ideal for challenging water conditions.

## OPTIONAL FEATURES & ACCESSORIES

- 🕒 **1.5" (optional) or 2" (standard) 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 of offline as flows increase or decrease
- 🕒 **Remote Display**
- 🕒 **Advanced connectivity options** - RS232, RS485, Modbus PLC Outputs

## EXAMPLES OF SOFTENER APPLICATIONS

### FOOD AND BEVERAGE

Improved taste

### GROCERY / RETAIL

Quality water for aesthetics and help extend equipment life

### RO/DI PRETREATMENT

### LIGHT INDUSTRY

For process and make-up water, boiler and cooling system pretreatment, general housekeeping

### EDUCATIONAL FACILITIES

Boiler and cooling tower make-up water for scale reduction and improved energy costs

### CAR WASHES

Quality results, detergent and water heating savings, scale reduction

### RESTAURANTS

For dishwashing, cleaning material savings, scale reduction

### APARTMENT BUILDINGS, ASSISTED LIVING FACILITIES AND HOTELS

Quality water for laundry, dishwashers, boilers

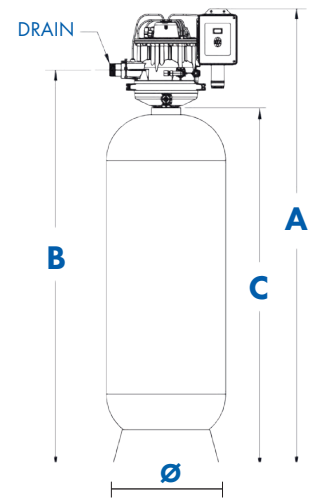
### OFFICE BUILDINGS

For heating plant pretreatment, tenant convenience, general housekeeping



## CTM SOFTENERS DIMENSIONS

Model	Tank		Height			Brine System size Ø x Height		CTM System	
	Inch(″)	Ø mm	A (mm)	B (mm)	C (mm)	Inch(″)	mm	Shipping Weight kg	Operating Weight kg
CTM 60	14 X 52	356	1791	1501	1321	24 X 50	610 X 1270	125	500
CTM 90	16 X 52	407	1791	1501	1321	24 X 50	610 X 1270	150	600
CTM 120	16 X 65	407	2121	1831	1651	24 X 50	610 X 1270	180	720
CTM 150	21 X 53	533	1816	1526	1346	21 X 53	533 X 1346	280	1120
CTM 210	21 X 62	533	2045	1755	1575	21 X 62	533 X 1575	312	1248
CTM 300	24 X 72	610	2299	2009	1829	30 X 50	762 X 1270	420	1680
CTM 450	30 X 72	762	2299	2009	1829	42 X 50	1067 X 1270	655	2620
CTM 600	36 X 72	915	2299	2009	1829	42 X 50	1067 X 1270	898	3592



## TECHNICAL SPECIFICATIONS

Model softener CTM		CTM 60	CTM 90	CTM 120	CTM 150	CTM 210	CTM 300	CTM 450	CTM 600
Service	Continuous flow (m <sup>3</sup> /h)	11,6	13	12,5	13,4	14,8	15,9	17,3	18,6
	Peak flow (m <sup>3</sup> /h)	16	17	16,6	17,3	19,3	21,6	23,6	24,8

## CTM EXCHANGE CAPACITY/SALT DOSAGE

Model		CTM 60	CTM 90	CTM 120	CTM 150	CTM 210	CTM 300	CTM 450	CTM 600
Min.	m <sup>3</sup> x °f	259	388	518	648	907	1296	1944	2592
	kg - salt	6,3	8,2	8,2	14,5	20	30	40	52,2
Average	m <sup>3</sup> x °f	324	486	648	810	1134	1620	2430	3240
	kg - salt	9	13,6	17,7	24,5	34,7	50	64,9	90,8
Max	m <sup>3</sup> x °f	388	583	777	972	1360	1944	2916	3888
	kg - salt	13,6	21	27,7	34	47,4	74,7	104	136,2

**Note:**

- Electric Power: 230/24V~50/60Hz.
- Operating temperature: min. 4.4 °C – Max 49 °C.
- Operating pressure (bar): min. 2,4 – Max 8,6
- The real capacity exchange depends on the inlet water features, from temperature to flow and other factors as composition.
- For the Duplex CTM models, technical specs are referred to the single softener. Duplex models are composed by two tank with a control valve for each column and a single brine system.
- Flow rate: based on 1 bar pressure losses for continuous flow, and 1.7 bar pressure losses for peak flow

## Place your commercial and industrial water treatment needs in the hands of a global leader.

For over 80 years, Culligan has made better water. Our global network, comprised of 900+ 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.



Contact your local Culligan representative for more details