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Installation  
and Operation  
Addendum

# Culligan® Total Home Automatic Water Conditioner

Use this addendum with the Culligan® Gold  
Series™ Softener Installation and Operation Guide

**Models from 2006**

The Culligan logo is written in a black, cursive script font. The word "Culligan" is written in a fluid, handwritten style, with a registered trademark symbol (®) at the end.

# Introduction

## Read this Manual First

Before you operate the Culligan Total Home Water Conditioner, read this manual to become familiar with the device and its capabilities.

The Culligan Total Home Gold Series Water Softeners with Soft-Minder® Meter are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium), as verified and substantiated by test data.

The Culligan Total Home Gold Series Water Softeners with Soft-Minder® Meter are tested and certified by WQA against NSF/ANSI Standard 42 for the effective reduction of Chlorine Taste and Odor as verified and substantiated by test data.



## Watch for Special Paragraphs

Please read the special paragraphs in this manual. Examples are shown below.

***For installations in Massachusetts, the Commonwealth of Massachusetts Plumbing Code 248 CMR shall be adhered to. Consult your licensed plumber for installation of the system. This system and its installation must comply with state and local regulations. The use of saddle valves is not permitted.***

## Safe Practices

Throughout this manual there are paragraphs set off by special headings.

**Note:** Check and comply with your state and local codes. You must follow these guidelines.

Note: Note/Notice is used to emphasize installation, operation or maintenance information which is important, but does not present any hazard. Example:

**Note:** The nipple must extend no more than one inch above the cover plate.

**Caution:** Caution is used when failure to follow directions could result in damage to equipment or property. Example:



**Caution!** Disassembly while under water pressure can result in flooding.

**Warning:** Warning is used to indicate a hazard which could cause injury or death if ignored. Example:



**Warning! Electrical Shock Hazard! Unplug the unit before removing the cover or accessing any internal control parts.**

## Serial Numbers

The control valve serial number is located on the back of the timer case.

The media tank serial number is located on the top surface of the tank.

**Note:** Do not remove or destroy the serial number. It must be references on request for warranty repair or replacement.

This publication is based on information available when approved for printing. Continuing design refinement could cause changes that may not be included in this publication.

Products manufactured and marked by Culligan International Company (Culligan) and its affiliates are protected by patent issued or pending in the United States and other countries. Culligan reserves the right to change the specifications referred to in this literature at any time, without prior notice.

# Performance Specifications

| Model  | 9" Model  | 10" Model   | 12" Model  | 14" Model  |
|--|---|---|--|--|
| Control Valve                                | 1", 5-cycle Reinforced Thermoplastic with AccuSoft Plus Circuit Board |   |  |  |
| Overall Conditioner Height                   | 54 in   | 60 in   | 58 in  | 71 in  |
| Media Tank Design                            | Quadra-Hull™  | Quadra-Hull™  | Quadra-Hull™   | Quadra-Hull™   |
| Media Tank Dimensions (Dia x Ht)             | 9 x 48 in   | 10 x 54 in  | 12 x 52 in   | 14 x 65 in   |
| Salt Storage Tank Dimensions (Dia x Ht)      | 16 x 43 in or<br>18 x 43 in   | 18 x 43 in  | 18 x 43 in   | 24 x 42 in   |
| Exchange Media, Type and Quantity            | Cullex® Media, 0.8 ft³  | Cullex® Media, 1.0 ft³  | Cullex® Media, 1.5 ft³   | Cullex® Media, 2.3 ft³   |
| Carbon Media, Quantity                       | 6 lbs   | 8 lbs   | 12 lbs   | 18 lbs   |
| Underbedding, Type and Quantity              | Cullsans® Underbedding,<br>12 lb                                      | Cullsans® Underbedding,<br>15 lb                                | Cullsans® Underbedding,<br>20 lb                                 | Cullsans® Underbedding,<br>25 lb                                 |
| Exchange Capacity @ Salt Dosage Per Recharge | 15,642 gr @ 3.7 lb<br>22,458 gr @ 9.6 lb<br>25,784 gr @ 16.0 lb       | 16,751 gr @ 4.0 lb<br>23,084 gr @ 8.0 lb<br>27,021 gr @ 12.0 lb | 31,240 gr @ 7.0 lb<br>44,853 gr @ 18.0 lb<br>51,495 gr @ 30.0 lb | 39,487 gr @ 9.2 lb<br>57,276 gr @ 18.4 lb<br>67,105 gr @ 27.6 lb |
| Efficiency rated dosage¹                     | 4,190 gr/lb @<br>3.7 lb salt dosage                                   | 4,188 gr/lb @<br>4 lb salt dosage                               | 4,463 gr/lb @<br>7 lb salt dosage                                | 4,292 gr/lb @<br>9.2 lb salt dosage                              |
| Freeboard to Media²                          | 15.75 in  | 19.5 in   | 17.31 in   | 25.89 in   |
| Freeboard to Underbedding³                   | 44.5 in   | 47.5 in   | 46 in  | 59 in  |
| Salt Storage Capacity                        | 250 lb or 375 lb  | 375 lb  | 375 lb   | 650 lb   |
| Rated Service Flow @ Pressure Drop           | 9.4 gpm @ 15 psi  | 9.9 gpm @ 15 psi  | 10.5 gpm @ 15 psi  | 10.8 gpm @ 15 psi  |
| Total Hardness, Maximum                      | 15 gpg  | 15 gpg  | 15 gpg   | 15 gpg   |
| Total Iron, Maximum                          | 0 ppm   | 0 ppm   | 0 ppm  | 0 ppm  |
| Color  | Less Than 1   | Less Than 1   | Less Than 1  | Less Than 1  |
| Turbidity                                    | Less Than 5 NTU   | Less Than 5 NTU   | Less Than 5 NTU  | Less Than 5 NTU  |
| TOC  | Less Than 0.5 PPM   | Less Than 0.5 PPM   | Less Than 0.5 PPM  | Less Than 0.5 PPM  |
| Operating Pressure                           | 20-125 psi  | 20-125 psi  | 20-125 psi   | 20-125 psi   |
| Operating Pressure (Canada)                  | 20-90 psi   | 20-90 psi   | 20-90 psi  | 20-90 psi  |
| Operating Temperature                        | 33-120°F  | 33-120°F  | 33-120°F   | 33-120°F   |
| Electrical Requirements                      | 24V/60 Hz   | 24V/60 Hz   | 24V/60 Hz  | 24V/60 Hz  |
| Electrical Power Consumption, Min/Max        | 3 Watts/35 Watts  | 3 Watts/35 Watts  | 3 Watts/35 Watts   | 3 Watts/35 Watts   |
| Drain Flow, Maximum⁴                         | 1.6 gpm   | 1.6 gpm   | 2.6 gpm  | 6.6 gpm  |
| Recharge Time, Average⁵<br>Recharge Water    | 68 min  | 57 min  | 52 min   | 55 min   |
| Consumption, Average⁵                        | 35 gal  | 46 gal  | 51 gal   | 176 gal  |

1 The efficiency rated dosage is only valid at the stated salt dosage and is efficiency rated according to NSF/ANSI 44.

2 Measured from top of media to top surface of tank threads. (backwashed and drained).

3 Measured from top of underbedding to top surface of tank threads.

4 Backwash at 120 psi (830 kPa).

5 10 minute backwash, 3.9 lb 9" model, 4 lb. 10" model, 7 lb. 12" model or 9.2 lb. 14" model salt dosage.

# Preparation

## Component Description

The water conditioner is shipped from the factory in a minimum of four cartons. Remove all components from their cartons and inspect them before starting installation.

**Control Valve Assembly** - Includes the 5-cycle regeneration control valve and the Accusoft® Plus Microprocessor. Small parts packages will contain additional installation hardware, and the conditioner Owner's Guide.

**Media Tank** - Includes Quadra-Hull™ media tank complete with Cullex® ion exchange resin, carbon media, underbedding and outlet manifold (12" and 14" tanks are shipped without media).

**Salt Storage Tank Assembly** - Includes salt storage container with support plate and Dubl-Safe™ brine refill valve and chamber.

**Bypass Valve** - Includes the molded bypass valve, the interconnecting couplings, and the assembly pins.

## Tools and Materials

The following tools and supplies will be needed, depending on installation method. Observe all applicable codes.

**Note:** Check and comply with your state and local codes. You must follow these guidelines.

**For installations in Massachusetts, the Commonwealth of Massachusetts Plumbing Code 248 CMR shall be adhered to. Consult your licensed plumber for installation of the system. This system and its installation must comply with state and local regulations. The use of saddle valves is not permitted.**

## All Installations

- Safety glasses
- Phillips screwdrivers, small and medium tip.
- Gauge assembly (PN 00-3044-50 or equivalent)
- Silicone lubricant (PN 00-4715-07 or equivalent) - DO NOT USE PETROLEUM-BASED LUBRICANTS
- A bucket, preferably light-colored
- Towels

## Special Tools

- Torch, solder and flux for sweat copper connections
- Use only lead-free solder and flux for all sweat-solder connections, as required by state and local codes.
- Threading tools, pipe wrenches and thread sealer for threaded connections.
- Saw, solvent and cement for plastic pipe connections.

## Materials

- Brine line, 3/8" (PN 01-0098-19) or equivalent) or 1/2" (P/N 00-9018-00 or equivalent)
- Drain line, 1/2" (PN 00-3030-82, gray, semi-flexible; or PN 00-3319-46, black, semi-rigid; or equivalent)
- Thread sealing tape
- Pressure reducing valve (if pressure exceeds 125 psi [860 kPa], PN 00-4909-00 or equivalent)
- Pipe and fittings suited to the type of installation
- Water softener salt (rock, solar or pellet salt formulated specifically for water softeners)

## Application

**Water quality** - Verify that raw water are within limits of specifications. Note the hardness for setting the salt dosage and recharge frequency.

**Chlorine Taste and Odor Reduction** - The Total Home Water Conditioner is designed for clean municipal chlorinated water supplies with low to moderate hardness.



**Caution!** Do not use where the water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit.

**Pressure** - If pressure exceeds 125 psi (860 kPa), install a pressure reducing valve (see materials checklist). On private water systems, make sure the minimum pressure (the pressure at which the pump starts) is greater than 20 psi (140 kPa).

Adjust the pressure switch if necessary.



**Caution!** The use of a pressure reducing valve may limit the flow of water in the household.

**Temperature** - Do not install the unit where it might freeze, or next to a water heater or furnace or in direct sunlight. Outdoor installation is not recommended and voids the warranty. Use the Culligan Outdoor Gold Series softener for outdoor installations. The Culligan Outdoor Gold Series softener has been certified by Underwriter's Laboratories for outdoor installation. If installing in an outside location, you must take the steps necessary to assure the softener, installation plumbing, wiring, etc. are as well protected from the elements (sunlight, rain, wind, heat, cold), contamination, vandalism, etc. as when installed indoors.

## Location

**Space requirements** - Allow 6-12 inches (15-30 cm) behind the unit for plumbing and drain lines and 4 feet (1.3 meters) above for service access and filling the salt container.

**Floor surface** - Choose an area with solid, level floor free of bumps or irregularities. Bumps, cracks, stones and other irregularities can cause the salt storage tank bottom to crack when filled with salt and water.

**Drain facilities** - Choose a nearby drain that can handle the rated drain flow (floor drain, sink or stand pipe). Refer to the Drain Line Chart, Table 3 (page 21), for maximum drain line length.

**Note:** Most codes require an anti-siphon device or airgap. Observe all local plumbing codes and drain restrictions. The system and installation must comply with all state and local laws and regulations. For installations in Massachusetts, the Commonwealth of Massachusetts Plumbing Code 248 CMR shall be adhered to. Consult your licensed plumber for installation of the system. This system and its installation must comply with state and local regulations. The use of saddle valves is not permitted.

**Electrical facilities** - A 10-foot cord and wall mount plug-in transformer are provided. The customer should provide a receptacle, preferably one not controlled by a switch that can be turned off accidentally. Observe local electrical codes.

**Note:** P.N. 01012956 and P.N. 01018133 plug-in transformer are rated for indoor installations only.

P.N. 01015972 plug-in transformer is rated for indoor/outdoor installations. (Non-Aqua-Sensor®)

**Note:** The softener works on 24 volt - 60 Hz power only. Be sure to use the included transformer. Be sure the electrical outlet and transformer are in an inside location to protect from moisture. Properly ground to conform with all governing codes and ordinances.

# Installation

**Note:** Read this section entirely before starting the installation. Follow all applicable plumbing and electrical codes.

With the exception of media containers, open the remaining containers, remove all the components, and inspect them before starting installation.

## Placement

Refer to figure 1 for system placement.

- Set the media tank on a solid, level surface near water, drain and electrical facilities.
- Set the brine system on a flat, smooth, solid surface as near the media tank as possible.

## Tank Assembly

For 9" and 10" media tanks fill the tank with water and allow the media to soak for 24 hours.

Before the unit can be connected to the plumbing the manifold distributors must be assembled and the underbedding, resin and carbon must be loaded into the tank for 12" and 14" tanks.



**Caution!** Do not lay the tank down unless a suitable lifting device is available. Personal injury and damage to the unit can result if dropped.

## Position the Mineral Tank(s)

Determine the location for the mineral tanks(s) prior to loading, since they will be difficult to move after the underbedding and gravel are loaded.

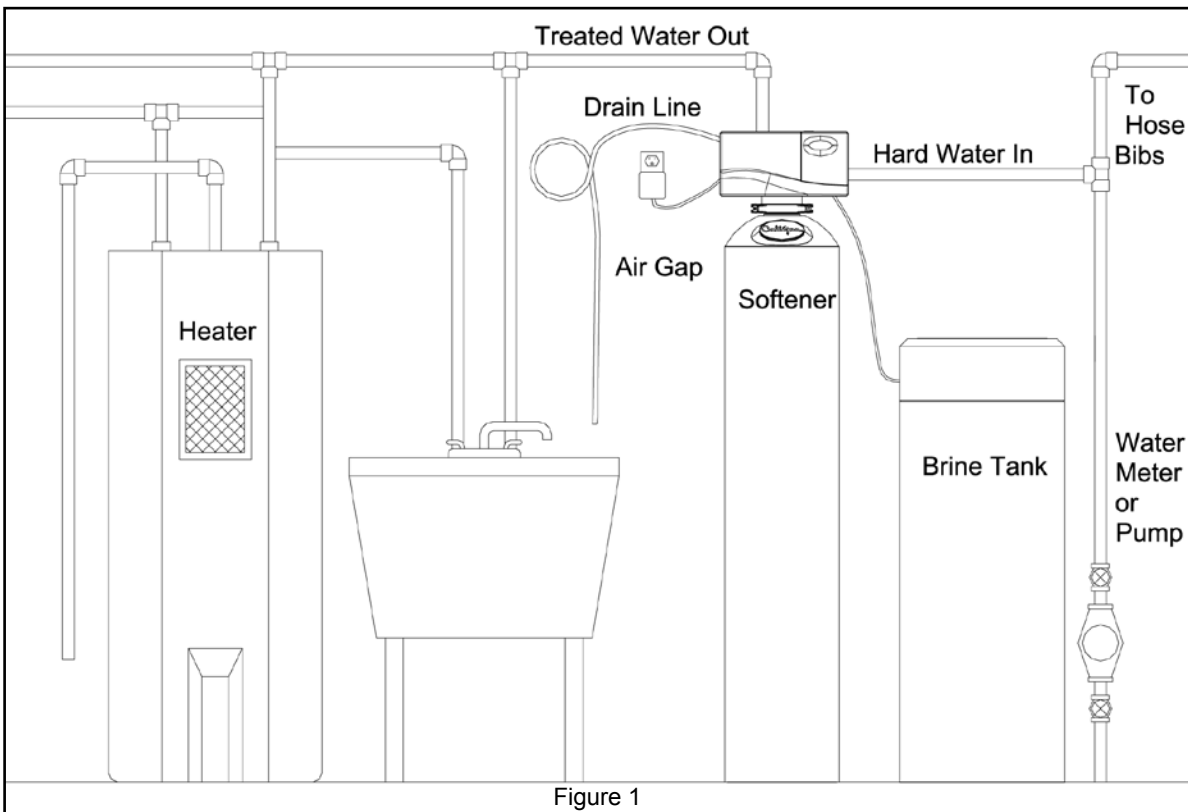


Figure 1

## Loading the Tank (12" & 14" Tanks)

1. Position the tank so that the Culligan® logo is in the front.
2. Remove the inlet strainer.
3. Install the outlet manifold into the tank.
4. Cover the tops of the manifolds with a clean rag.
5. Using a large-mouth funnel, load the Culligan underbedding through the top of the tank per the amount in the specifications.



**Caution!** DO NOT allow the outlet manifold to move when loading the media. The manifold must remain vertical to ensure a good seal at the gasket. Rap the tank near the bottom with a rubber mallet to level the sand.

6. Load the tank with the Cullex® ion exchange resin per the amount in the specifications. Leveling is not required.
7. Load the tank with the carbon media per the amount in the specifications. Leveling is not required. Remove the funnel.
8. Install the inlet strainer making sure to thread the strainer until it bottoms out on the tank thread. Failure to install the strainer correctly can cause the control to leak.

Follow the standard Gold Series Installation and Operation Manual to complete the installation.

Attach Total Home data plate (located in the control small parts pack) on the back of the control.

Part Number 01-0189-34 — Replacement Carbon Media, 10 lb Bag

# Programming

## DIP Switch Settings

The circuit board is shipped with all DIP switches in the off position. Prior to programming the controller some DIP switches may need to be moved to the ON position. Because each switch serves a specific purpose, please refer the Culligan Gold Series Installation & Operation Manual for additional information.

**Dip Switch** – Set dip switches on back of circuit board to the following for the Total Home Water Conditioner.

1. Dip switch 4 is “On”
2. All other dip switch settings should be in the “Off” position.

## Programming Menus

Refer to the Culligan Gold Series Installation and Operating Manual for more details on the programming menus. The following Screens will appear.

A further description of each programming setting and the corresponding display is outlined below. For a display that has an icon that is displayed solid for the 2 second time period prior to bringing up the settings, the settings menu can be reached prior to the two second time out by pressing the “Up” or “Down” key.

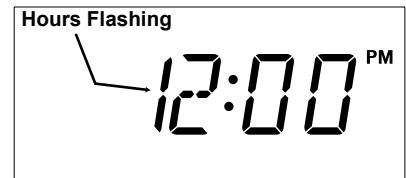
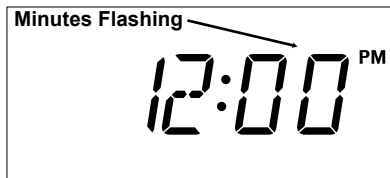
1. **Beeper Setting** - This setting is used to turn the beeper on or off for each key press actuation. The display will show “bEEP X” where X is either “Y” or “N”. The “Y” or “N” will be toggled with the “Up” and “Down” keys. Setting the Beep option to “N” will only disable the beeper for key press actuation. The beeper will still be active for error and alarm codes.



Pressing the “Program” key will save the setting and move to the next programming step.

2. **Time of Day** - This setting is used to program the current time of day. When in this step the display will first show “tod” for two seconds.

After “tod” is displayed, “12:00 PM” will display (or the current set time if already programmed) and the minutes will flash. The minutes are adjusted with the “Up” or “Down” key until the correct value is displayed.



Press the “Regen” key to flash the hours. Adjust with the “Up” or “Down” key until the correct time is displayed.

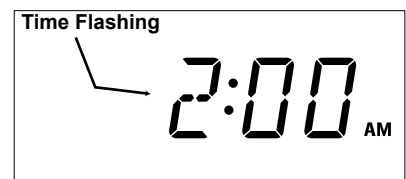
Pressing the “Program” key will save setting and move to the next programming step. Pressing “Regen” will move back to the minutes adjust.

3. **Time of Regeneration** - This setting is used to program the time at which a regeneration is to occur in the delay mode, or in immediate mode with time clock backup on. The display will first show “tor” for two seconds.

After “tor” is shown the display will then show the default of 2:00 AM (or the current programmed time of regeneration if already set). The time can be adjusted in 30 minute increments by pressing the “Up” or “Down” keys.



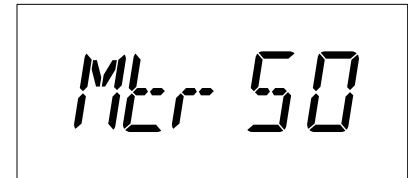
Pressing the “Program” key will save the setting and move to the next programming step.





4. Meter “K” Factor - This setting is used to set the “K” factor (the number of pulses a flow device emits to represent a volume of water). **Set the “K” factor to 80.** Adjust the valve with the “up” and “Down” keys.

Pressing the “Program” key will save the setting and move to the next programming step.



5. Cycle 1 Time - This setting is used to program the cycle 1 time that is backwash. The time of the cycle is kept in minutes. The display will show the “BACKWASH” and “MINS” icons and the cycle time in the right most digits. Adjust the value with the “Up” or “Down” keys.

**Note:** This setting also appears during Aqua-Sensor® programming.



Pressing the “Program” key will save the setting and move to the next programming step.

6. Cycle 2 Time - This setting is used to set the time in minutes for cycle 2. This cycle is brine draw / slow rinse for softeners. The display will show the “BRINE RINSE” and “MINS” icons and the cycle time in the right most digits. Adjust the value with the “Up” or “Down” keys. See attached capacity charts to set “brine draw / slow rinse” times.

Pressing the “Program” key will save the setting and move to the next programming step.



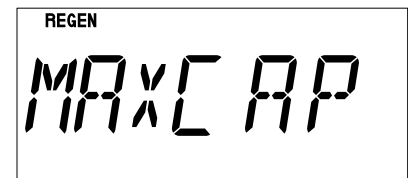
7. Cycle 3 Time - This cycle is the Fast Rinse/Refill for softeners. The display will show the “Fast Rinse/Refill” and “Mins” icons and the cycle time in the far right digits. See attached capacity charts to set “refill” time (round to the nearest minute). Adjust the value with the “Up” and “Down” keys.

Pressing the “Program” key will move to the next programming step.



8. Total Capacity Set Point (Max Capacity) - This setting is used to program a value that corresponds to the maximum capacity that can be expected from a unit before it is completely exhausted. If the unit reaches this set point an immediate regeneration will occur even if dip # 6 is set to delay mode (If hidden menu is set to “Delay” the control will NEVER trigger an immediate regeneration, even if dip # 6 is set to delay. This setting will only appear if a flow meter is connected to the circuit board. Adjust the value with the “Up” or “Down” keys. The display will show the “REGEN” icon and “MAXCAP” for two seconds and then display the “REGEN” and “GALLONS” or “LITERS” (depending on DIP switch # 7 setting) icons and the setting numbers to adjust.

**Note:** “Maxcap” can not be set lower than “Batch”.



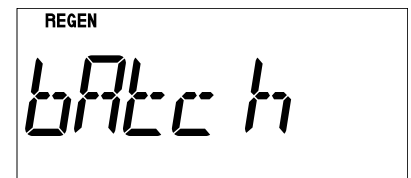
Pressing the “Program” key will save the setting and move to the next programming step.



9. Batch Set Point - This setting is used to set the trip point for regeneration when in flow meter operation. It will only appear if a flow meter is connected, dip # 3 is set to Gold, or dip 4 set to ‘other’. The programmed setting displays the actual set point to trigger regeneration. The display will show the “REGEN” icon and “batch” for two seconds and then display the “REGEN” and “GALLONS” or “LITERS” (depending on dip # 7 setting) icons and the setting numbers to adjust. Adjust the value with the “Up” or “Down” keys.

Pressing the “Program” key will save the setting and exit the programming menu.

**Note:** “Batch” can not be set higher than “Maxcap”.



## Culligan Total Home Capacities

| Gold 9" x 48" |             |                              |             |     | NaCl Regeneration |                    |
|---------------|-------------|------------------------------|-------------|-----|-------------------|--------------------|
| Hardness      | Salt Dosage | Brine Draw / Slow Rinse Time | Refill Time |     | Total Capacity    | Capacity to Signal |
| Grains        | lbs         | Min                          | Min         | Sec | MAXCAP            | bAtch              |
| 5             | 5           | 56                           | 4           | 5   | 3654              | 2558               |
| 6             | 5           | 56                           | 4           | 5   | 3045              | 2131               |
| 7             | 5           | 56                           | 4           | 5   | 2610              | 1826               |
| 8             | 5           | 56                           | 4           | 5   | 2284              | 1599               |
| 9             | 5           | 56                           | 4           | 5   | 2030              | 1421               |
| 10            | 5           | 56                           | 4           | 5   | 1827              | 1279               |
| 11            | 6           | 59                           | 4           | 54  | 1818              | 1272               |
| 12            | 6           | 59                           | 4           | 54  | 1666              | 1166               |
| 13            | 6           | 59                           | 4           | 54  | 1538              | 1076               |
| 14            | 6           | 59                           | 4           | 54  | 1428              | 1000               |
| 15            | 6           | 59                           | 4           | 54  | 1333              | 933                |

| Gold 10" x 54" |             |                              |             |     | NaCl Regeneration |                    |
|----------------|-------------|------------------------------|-------------|-----|-------------------|--------------------|
| Hardness       | Salt Dosage | Brine Draw / Slow Rinse Time | Refill Time |     | Total Capacity    | Capacity to Signal |
| Grains         | lbs         | Min                          | Min         | Sec | STD               | STD                |
| 5              | 6           | 55                           | 4           | 54  | 4189              | 2933               |
| 6              | 6           | 55                           | 4           | 54  | 3491              | 2443               |
| 7              | 6           | 55                           | 4           | 54  | 2992              | 2095               |
| 8              | 6           | 55                           | 4           | 54  | 2618              | 1833               |
| 9              | 7           | 56                           | 5           | 43  | 2440              | 1708               |
| 10             | 7           | 56                           | 5           | 43  | 2196              | 1537               |
| 11             | 7           | 56                           | 5           | 43  | 1997              | 1398               |
| 12             | 7           | 56                           | 5           | 43  | 1830              | 1281               |
| 13             | 7           | 56                           | 5           | 43  | 1689              | 1183               |
| 14             | 7           | 56                           | 5           | 43  | 1569              | 1098               |
| 15             | 7           | 56                           | 5           | 43  | 1529              | 1070               |

| Gold 12" x 52" |             |                              |             |     | NaCl Regeneration |                    |
|----------------|-------------|------------------------------|-------------|-----|-------------------|--------------------|
| Hardness       | Salt Dosage | Brine Draw / Slow Rinse Time | Refill Time |     | Total Capacity    | Capacity to Signal |
| Grains         | lbs         | Min                          | Min         | Sec | STD               | STD                |
| 5              | 9           | 51                           | 4           | 12  | 6128              | 4290               |
| 6              | 9           | 51                           | 4           | 12  | 5107              | 3575               |
| 7              | 9           | 51                           | 4           | 12  | 4377              | 3064               |
| 8              | 10          | 53                           | 4           | 40  | 4010              | 2807               |
| 9              | 10          | 53                           | 4           | 40  | 3564              | 2495               |
| 10             | 10          | 53                           | 4           | 40  | 3208              | 2246               |
| 11             | 10          | 53                           | 4           | 40  | 2916              | 2042               |
| 12             | 10          | 53                           | 4           | 40  | 2673              | 1871               |
| 13             | 11          | 55                           | 5           | 8   | 2573              | 1802               |
| 14             | 11          | 55                           | 5           | 8   | 2389              | 1673               |
| 15             | 11          | 55                           | 5           | 8   | 2230              | 1561               |

| Gold 14" x 65" |             |                              |             |     | NaCl Regeneration |                    |
|----------------|-------------|------------------------------|-------------|-----|-------------------|--------------------|
| Hardness       | Salt Dosage | Brine Draw / Slow Rinse Time | Refill Time |     | Total Capacity    | Capacity to Signal |
| Grains         | lbs         | Min                          | Min         | Sec | STD               | STD                |
| 5              | 14          | 50                           | 6           | 32  | 9882              | 6917               |
| 6              | 14          | 50                           | 6           | 32  | 8235              | 5765               |
| 7              | 14          | 50                           | 6           | 32  | 7058              | 2118               |
| 8              | 15          | 51                           | 7           | 0   | 6354              | 4448               |
| 9              | 15          | 51                           | 7           | 0   | 5648              | 3954               |
| 10             | 15          | 51                           | 7           | 0   | 5083              | 3558               |
| 11             | 15          | 51                           | 7           | 0   | 4746              | 3322               |
| 12             | 15          | 51                           | 7           | 0   | 4351              | 3046               |
| 13             | 15          | 51                           | 7           | 0   | 4016              | 2811               |
| 14             | 16          | 51                           | 7           | 28  | 3823              | 2676               |
| 15             | 16          | 51                           | 7           | 28  | 3569              | 2499               |

## Culligan Limited Warranty

### Culligan Total Home Automatic Water Conditioners

You have just purchased one of the finest water conditioners made. As an expression of our confidence in Culligan International Company products, your water conditioner is warranted to the original end-user, when installed in accordance with Culligan specifications, against defects in material and workmanship from the date of original installation, as follows:

|  |  |
|--|--|
| <b>For a period of ONE YEAR</b>                            | The entire conditioner, carbon media and the Cullex® resin   |
| <b>For a period of FIVE YEARS</b>                          | Soft-Minder® meter   |
| <b>For a period of TEN YEARS</b>                           | The AccuSoft® Plus circuit board, The control valve body, excluding internal parts.<br>The salt storage container, brine valve and all its component parts |
| <b>For the LIFETIME of the original consumer purchaser</b> | The Quadra-Hull™ conditioner tank  |

If a part described above is found defective within the specified period, you should notify your independently operated Culligan dealer and arrange a time during normal business hours for the dealer to inspect the water conditioner on your premises. Any part found defective within the terms of this warranty will be repaired or replaced by the dealer. You pay only freight from our factory and local dealer charges.

We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, oxidizing agents (such as chlorine, ozone, chloramines and other related components), alteration, installation or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Culligan specifications, is not covered by this warranty. Refer to the specifications section in the Installation and Operating manual for application parameters.

Our product performance specifications are furnished with each water conditioning unit. TO THE EXTENT PERMITTED BY LAW, CULLIGAN DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE; TO THE EXTENT REQUIRED BY LAW, ANY SUCH IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE ONE-YEAR PERIOD SPECIFIED ABOVE FOR THE ENTIRE CONDITIONER. As a manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing a water conditioner. The quality of water supplies may vary seasonally or over a period of time, and your water usage rate may vary as well. Water characteristics can also differ considerably if your water conditioner is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product with a non-potable water source. OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF THE FAILED PARTS OF THE WATER CONDITIONER, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES.

**Some states do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Similarly, some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Consult your telephone directory for your local independently operated Culligan dealer, or write Culligan International Company for warranty and service information.**

### Culligan International Company

9399 W. Higgins Road, Suite 1100

Rosemont, IL 60018

[www.culligan.com](http://www.culligan.com)

# Performance Data Sheet

## Culligan Total Home Gold 9" Water Conditioner

Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and more than seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

**Manufacturer:** Culligan International Company  
9399 W. Higgins Rd., Suite 1100, Rosemont, IL 60018 USA  
(847) 430-2800

**Product:** Culligan Total Home Gold 9" Water Conditioner



### Testing Conditions & Results:

|                                   |                  |           |                               |
|-----------------------------------|------------------|-----------|-------------------------------|
| Flow Rate:                        | 9.4 gpm @ 15 psi | Capacity: | 15,642 grains @ 3.7 lb. salt  |
| Pressure:                         | 30 - 40 psi      |           | 22,458 grains @ 9.6 lb. salt  |
| Acidity:                          | Non-Corrosive    |           | 25,784 grains @ 16.0 lb. salt |
| Temperature:                      | 68° (20°C)       | pH:       | 7.6                           |
| Efficiency Rated Dosage†:         | 4,190 gr/lb      |           |                               |
| Chlorine Taste and Odor Capacity: | 300,000 gallons  |           |                               |

### Softener Specifications:

|  |  |
|--|--|
| Max. Flow Rate: 9.4 gpm (34 Lpm)               | Pressure Drop at Max. Flow Rate: 15 psi (90 kPa)           |
| Operating Temp. Range: 33-125°F (1-50°C)       | Max. Drain Flow Rate: 1.6 gpm (6.1 Lpm)                    |
| Working Press. Range: 20-120 psi (140-860 kPa) | Oper. Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa) |

The Culligan Total Home Gold 9" Water Softeners are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) as verified and substantiated by test data.

The Culligan Total Home Gold 9" Water Softeners are tested and certified by WQA against NSF/ANSI Standard 42 for effective reduction of chlorine taste and odor as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

† The efficiency rated dosage is only valid at the 3.7 lb. salt dosage for 9" models.

Buyer Signature \_\_\_\_\_ Date \_\_\_\_\_  
Seller Signature \_\_\_\_\_ Date \_\_\_\_\_

## Culligan Total Home Gold 10" Water Conditioner

Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and more than seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

**Manufacturer:** Culligan International Company  
9399 W. Higgins Rd., Suite 1100, Rosemont, IL 60018 USA  
(847) 430-2800



**Product:** Culligan Total Home Gold 10" Water Conditioner

### Testing Conditions & Results:

|                                   |                  |           |                             |
|-----------------------------------|------------------|-----------|-----------------------------|
| Flow Rate:                        | 9.9 gpm @ 15 psi | Capacity: | 16,751 grains @ 4 lb. salt  |
| Pressure:                         | 30 - 40 psi      |           | 23,084 grains @ 8 lb. salt  |
| Acidity:                          | Non-Corrosive    |           | 27,021 grains @ 12 lb. salt |
| Temperature:                      | 68° (20°C)       | pH:       | 7.6                         |
| Efficiency Rated Dosage†:         | 4,188 gr/lb      |           |                             |
| Chlorine Taste and Odor Capacity: | 339,000 gallons  |           |                             |

### Softener Specifications:

|  |   |
|--|---|
| Max. Flow Rate: 9.9 gpm (35.5 Lpm)             | Pressure Drop at Max. Flow Rate: 15 psi (109 kPa)           |
| Operating Temp. Range: 33-125°F (1-50°C)       | Max. Drain Flow Rate: 1.6 gpm (6.1 Lpm)                     |
| Working Press. Range: 20-120 psi (140-860 kPa) | Oper. Pressure Range (Canada): 20 - 100 psi (140 - 620 kPa) |

The Culligan Total Home Gold 10" Water Softeners are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) as verified and substantiated by test data.

The Culligan Total Home Gold 10" Water Softeners are tested and certified by WQA against NSF/ANSI Standard 42 for effective reduction of chlorine taste and odor as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

† The efficiency rated dosage is only valid at the 4 lb. salt dosage for 10" models.

Buyer Signature \_\_\_\_\_ Date \_\_\_\_\_  
Seller Signature \_\_\_\_\_ Date \_\_\_\_\_

## Culligan Total Home Gold 12" Water Conditioner

Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and more than seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

**Manufacturer:** Culligan International Company  
9399 W. Higgins Rd., Suite 1100, Rosemont, IL 60018 USA  
(847) 430-2800



**Product:** Culligan Total Home Gold 12" Water Conditioner

### Testing Conditions & Results:

|                                   |                   |           |                               |
|-----------------------------------|-------------------|-----------|-------------------------------|
| Flow Rate:                        | 10.5 gpm @ 15 psi | Capacity: | 31,240 grains @ 7 lb. salt    |
| Pressure:                         | 30 - 40 psi       |           | 44,853 grains @ 18.0 lb. salt |
| Acidity:                          | Non-Corrosive     |           | 51,495 grains @ 30 lb. salt   |
| Temperature:                      | 68° (20°C)        | pH:       | 7.6                           |
| Efficiency Rated Dosage†:         | 4,463 gr/lb       |           |                               |
| Chlorine Taste and Odor Capacity: | 621,000 gallons   |           |                               |

### Softener Specifications:

|  |  |
|--|--|
| Max. Flow Rate: 10.5 gpm (38 Lpm)              | Pressure Drop at Max. Flow Rate: 15 psi (109 kPa)          |
| Operating Temp. Range: 33-125°F (1-50°C)       | Max. Drain Flow Rate: 1.6 gpm (6.1 Lpm)                    |
| Working Press. Range: 20-120 psi (140-860 kPa) | Oper. Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa) |

The Culligan Total Home Gold 12" Water Softeners are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) as verified and substantiated by test data.

The Culligan Total Home Gold 12" Water Softeners are tested and certified by WQA against NSF/ANSI Standard 42 for effective reduction of chlorine taste and odor as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

† The efficiency rated dosage is only valid at the 7 lb. salt dosage for 12" models.

Buyer Signature \_\_\_\_\_ Date \_\_\_\_\_  
Seller Signature \_\_\_\_\_ Date \_\_\_\_\_

## Culligan Total Home Gold 14" Water Conditioner

Culligan knows the more informed you are about your water treatment systems, the more confident you will be about its performance. It's because of this and more than seventy years of commitment to customer satisfaction that Culligan is providing this Performance Data Sheet to its customers.

**Important Notice:** Read this Performance Data Sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs.

**Manufacturer:** Culligan International Company  
 9399 W. Higgins Rd., Suite 1100, Rosemont, IL 60018 USA  
 (847) 430-2800



**Product:** Culligan Total Home Gold 14" Water Conditioner

### Testing Conditions & Results:

|                                   |                   |           |                               |
|-----------------------------------|-------------------|-----------|-------------------------------|
| Flow Rate:                        | 10.8 gpm @ 15 psi | Capacity: | 39,487 grains @ 9.2 lb. salt  |
| Pressure:                         | 30 - 40 psi       |           | 57,276 grains @ 18.4 lb. salt |
| Acidity:                          | Non-Corrosive     |           | 67,105 grains @ 27.6 lb. salt |
| Temperature:                      | 68° (20°C)        | pH:       | 7.6                           |
| Efficiency Rated Dosage†:         | 4,292 gr/lb       |           |                               |
| Chlorine Taste and Odor Capacity: | 935,000 gallons   |           |                               |

### Softener Specifications:

|  |  |
|--|--|
| Max. Flow Rate: 10.8 gpm (38 Lpm)              | Pressure Drop at Max. Flow Rate: 15 psi (109 kPa)          |
| Operating Temp. Range: 33-125°F (1-50°C)       | Max. Drain Flow Rate: 1.6 gpm (6.1 Lpm)                    |
| Working Press. Range: 20-120 psi (140-860 kPa) | Oper. Pressure Range (Canada): 20 - 90 psi (140 - 620 kPa) |

The Culligan Total Home Gold 14" Water Softeners are tested and certified by WQA against NSF/ANSI Standard 44 for the effective reduction of hardness (calcium and magnesium) as verified and substantiated by test data.

The Culligan Total Home Gold 14" Water Softeners are tested and certified by WQA against NSF/ANSI Standard 42 for effective reduction of chlorine taste and odor as verified and substantiated by test data.

An efficiency rated water softener is a DIR softener which also complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation. Efficiency rated water softeners shall have a rated salt efficiency of not less than 3350 grains of total hardness exchange per pound of salt (based on NaCl equivalency) (477 grams of total hardness exchange per kilogram of salt), and shall not deliver more salt than its listed rating. The efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve. Operational efficiency is the actual efficiency achieved after the system has been installed. It is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

Refer to the Specifications, Familiarization and Warranty section of this Owner's Guide for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan Man. Performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Culligan water softeners are designed to work with any salt of good quality, although it is recommended that you ask your local Culligan Man for his suggestion on the best type and grade of salt to use in this softener.

**Notice:** This softener is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

† The efficiency rated dosage is only valid at the 9.2 lb. salt dosage for 14" models.

Buyer Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Seller Signature \_\_\_\_\_ Date \_\_\_\_\_