

Culligan®

**Culligan®
High
Efficiency
Automatic
Water Filter
Owners
Guide**





Attention Culligan Customer

The installation, service and maintenance of this equipment should be rendered by a qualified and trained service technician. Your local independently operated Culligan dealer employs trained service and maintenance personnel who are experienced in the installation, function and repair of Culligan equipment. This publication is written specifically for these individuals and is intended for their use.

We encourage Culligan users to learn about Culligan products, but we believe that product knowledge is best obtained by consulting with your Culligan dealer. Untrained individuals who use this manual assume the risk of any resulting property damage or personal injury.



WARNING! **Electrical shock hazard! Prior to servicing equipment, disconnect power supply to prevent electrical shock.**

NOTE **This system is not intended for use where water is microbiologically unsafe or with water of unknown quality.**



WARNING! **If incorrectly installed, operated or maintained, this product can cause severe injury. Those who install, operate, or maintain this product should be trained in its proper use, warned of its dangers, and should read the entire manual before attempting to install, operate, or maintain this product.**



WARNING! **This device complies with part 15 of the FCC rules subject to the two following conditions: 1) This device may not cause harmful interference, and 2) This device must accept all interference received including interference that may cause undesired operation.**

This equipment complies with Part 15 of the FCC rules. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



CAUTION! **To reduce the risk of fire, use only No. 26 AWG or larger telecommunications line cord.**



CAUTION! **This product is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction.**



CAUTION! **Children should be instructed not to play with this appliance.**



CAUTION! **If the power cord from the transformer to the unit looks or becomes damaged, the cord and transformer should be replaced by a Culligan Service Agent or similarly qualified person in order to avoid a hazard.**

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Thank You.....	<u>1</u>
Specifications.....	<u>2</u>
Introduction	<u>3</u>
Navigating the Menus and Keypad	<u>4</u>
Set Date and Time	<u>5</u>
Information.....	<u>7</u>
Regeneration	<u>9</u>
Things to Check Before You Call for Service.....	<u>11</u>
Error Codes	<u>12</u>
When and How to Bypass Your Water Filter	<u>13</u>
Performance Data Sheet	<u>14</u>
High Efficiency 9" Cullar and 10" Cullar Filter	<u>14</u>
High Efficiency 9" Cullneu and 10" Cullneu Filter.....	<u>15</u>
High Efficiency 9" Filtr-Clear and 10" Filtr-Clear Filter	<u>16</u>
Records and Data	<u>17</u>
Important Data on Your Water Filter	<u>17</u>
Culligan Limited Warranty	<u>18</u>
With Culligan You Get More Than A Quality Product	<u>19</u>
Index.....	<u>20</u>

Contents



About this Manual

This manual:

- familiarizes the operator with the equipment
- explains installation and setup procedures
- provides basic programming information
- explains the various modes of operation
- gives specifications and troubleshooting information

Read this Manual First

Before you operate the Culligan High Efficiency Automatic Water Filter, read this manual to become familiar with the device and its capabilities.

Safe Practices

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

Notice (or Note) is used to emphasize installation, operation or maintenance information which is important, but does not present any hazard. For example,

NOTICE The nipple must extend no more than 1 inch above the cover plate.

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



CAUTION! Disassembly while under water pressure can result in flooding.

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



WARNING! Electrical shock hazard! Unplug the unit before removing the timer mechanism or cover plates!

The CAUTION and WARNING paragraphs are not meant to cover all possible conditions and situations that may occur. Understand that common sense, caution, and careful attention are conditions which cannot be built into the equipment. These MUST be supplied by the personnel installing, operating, or maintaining the system.

Be sure to check and follow the applicable plumbing codes and ordinances when installing this equipment. Local codes may prohibit the discharge of sanitizing or descaling solutions to drain.

Use protective clothing and proper face or eye protection equipment when handling chemicals or tools.

NOTE The Culligan High Efficiency Filter is not intended for use with water that is microbiologically unsafe or of unknown quality without adequate disinfection either before or after the system.

NOTE Check with your public works department for applicable local plumbing and sanitation codes. Follow local codes if they differ from the standards used in this manual. To ensure proper and efficient operation of the Culligan High Efficiency Filter to your full satisfaction, carefully follow the instructions in this manual.



Welcome To Your New World of Better Living with Culligan Water.

The Culligan High Efficiency 9" and 10" Cullar Filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA B483.1, and NSF/ANSI Standard 42 for the effective reduction of chlorine taste and odor up to 120,000 gallons for the 9" filter and 180,000 gallons for the 10" filter as verified and substantiated by test data.

The Culligan High Efficiency 9" and 10" Cullneu® Filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA B483.1, and NSF/ANSI/CAN Standard 61 for Material Safety requirement only. Not certified for contaminant reductions by WQA.

The Culligan High Efficiency 9" and 10" Filtr-Cleer® Filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA B483.1, and NSF/ANSI Standard 42 for Class V ($\geq 30\mu\text{m}$ to $< 50\mu\text{m}$) particulate reductions as verified and substantiated by test data.

The Culligan High Efficiency 9" and 10" Filter Empty have been tested and certified by WQA against NSF/ANSI Standard 372 and NSF/ANSI/CAN Standard 61 for Material Safety only. Not certified for contaminant reductions or structural integrity by WQA.

The Culligan High Efficiency Water Filter Outdoor Enclosure complies with the UL 50/50E standards for an IP 46 Rating.

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

Congratulations, too, on selecting one of the "first family" of water treatment in the prestigious Culligan High Efficiency Water Filters. With Culligan's many years of knowledge and experience in water treatment, you can be confident that the model you selected has been designed and engineered to provide years of service with a minimum of care and attention.

Some localities have corrosive water. A water filter cannot correct this problem and so its printed warranty disclaims liability for corrosion of plumbing lines, fixtures or appliances. If you suspect corrosion, your Culligan Dealer has equipment to control the problem.



Thank You



Specifications

	9-Inch	10-Inch
General		
Mineral Tank Size	9x48 in. (229x1,219mm)	10x54 in. (254x1,372mm)
Control	1" Reinforced Thermoplastic w/HE Circuit Boards	
Timer	Electronic	Electronic
Temperature Limits	33-120°F (1-50°C)	33-120°F (1-50°C)
Water Pressure Limits	20-120 psi (140-830kPa)	20-120 psi (140-830kPa)
Water Pressure Limits (Canada)	20-90 psi (140-620kPa)	20-90 psi (140-620kPa)
Electrical Requirements	24V/50-60 Hz	24V/50-60 Hz
Electrical Power Consumption, Min./Max.	8.4 Watts/21.6 Watts	8.4 Watts/21.6 Watts
Overall Height	54 in. (1,372 mm)	60 in. (1,524 mm)
Filtr-Clear®		
Rated Service Flow @ Pressure Drop	7.6 gpm @ 15 psi	8.1 gpm @ 15 psi
Minimum Practical Filtration Size	30 microns	30 microns
Maximum Particulate Matter	150 NTU	150 NTU
Maximum Suspended Solids	150 mg/L	150 mg/L
Drain Flow, Maximum ¹	4.5 gpm	7.0 gpm
pH Limitation	6.0-9.5	6.0-9.5
Recharge Time ²	30 min.	30 min.
Recharge Water Consumption, Av. ³	90 gal.	140 gal.
Freeboard ⁴	20 ± 1.5 inches	19 ± 1.5 inches
Cullar®		
Rated Service Flow @ Pressure Drop	4.0 gpm @ 2.0 psi	5.9 gpm @ 5.0 psi
Drain Flow, Maximum ¹	3.5 gpm	5.5 gpm
pH Limitation	5.0-11.0	5.0-11.0
Recharge Time ²	30 min.	30 min.
Recharge Water Consumption, Av. ³	40 gal.	110 gal.
Cullar Media Volume	0.73 cu. ft.	1.5 cu. ft.
Cullsan® Underbedding Media Amount	10 lbs. (.1 ft ³)	20 lbs. (.2 ft ³)
Freeboard ⁴	22 ± 1.5 inches	24 ± 1.5 inches
Rated Capacity	120,000 gallons	180,000 gallons
Cullneu®⁵		
Rated Service Flow @ Pressure Drop	4.0 gpm @ 2.0 psi	5.9 gpm @ 3.0 psi
Drain Flow, Maximum ¹	3.5 gpm	5.5 gpm
pH Limitation*	5.2-6.8	5.2-6.8
Recharge Time ²	30 min.	30 min.
Recharge Water Consumption, Av. ³	70 gal.	110 gal.
Cullneu Media Volume	1.1 cu. ft.	1.6 cu. ft.
Freeboard ⁴	13 ± 1.5 inches	18 ± 1.5 inches

¹Backwash at 120 psi (830 kPa).

²Factory Settings.

³Factory Settings and 120 psi line pressure.

⁴Measured from top of media surface to top surface of tank threads (backwashed and drained).

NOTE Under dynamic conditions, it may be necessary to mix five parts Cullneu with one part Cullneu C to effectively raise the pH.



Introduction

Filtr-Clear®

The High Efficiency Filtr-Clear Automatic Water Filter is capable of reducing particulate matter down to 30 microns particle size. It will not remove color, organics, colloidal turbidity or dissolved solids. Some applications follow:

- Reduction of suspended matters in any water system.
- Reduction of particulate matter, such as clay, mud, etc.
- Prefiltration of oxidized iron ahead of an automatic or manual softener.
- Reduction of light sand.

NOTE If sands cannot be removed from the Filtr-Clear tank during backwashing, a sand trap should be installed.

- After the retention tank when a Cul-Clear® system is used to correct hydrogen sulfide or colloidal suspension problems.

The quality and number of gallons filtered water between backwashes will depend upon the amount, type, and size of the particulate matter being filtered. If a water sample is sent to our laboratory, where application of a Filtr-Clear unit is contemplated, write "Filtr-Clear Analysis" on the sample tag. Send an additional sample of water for a standard water analysis. The laboratory will test for Nephelometric Turbidity Units (NTU) and suspended solids (mg/L). The sample will also be filtered through 10 micron filter paper and NTU run on a filtered sample. If the NTU of the raw water exceeds 150, suspended solids exceed 150 mg/L or the filtered water through the 10 micron filter paper is of an unacceptable quality, a Filtr-Clear filter may not be applicable. As a guide, the U.S. Public Health Drinking Water standards states the turbidity should not exceed 1 NTU. The exact number of gallons filtered between backwashes cannot be given because of many variables.

Cullar® Filter

The High Efficiency Water Filter with Cullar Media will reduce chlorine taste and odor and other common bad tastes and odors. It will not remove hydrogen sulfide. It is important to note that whenever the cause of an objectionable taste or odor has not been established, Health Authorities should determine if water is safe to drink. If bacterial contamination is present, a Cul-Clear® system is indicated. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

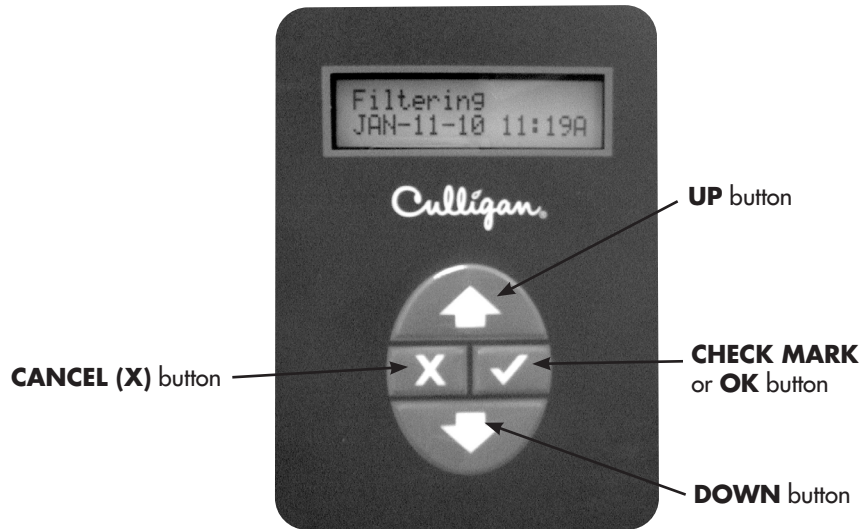
Cullneu® Filter

The High Efficiency Water Filter with Cullneu Media will neutralize slightly acid water (pH (5.2 to 6.8)) and thus help to prevent unsightly brown or green stains due to corrosion of household plumbing. If the pH is between 5 and 6, one part of Cullneu C media should be mixed with 5 parts of Cullneu media to provide additional neutralizing capability. If the water to be treated has a pH less than 5, a high hardness, or a high carbon dioxide level, Cullneu may not be applicable; a solution feeder should be used. Since Cullneu adds hardness, it should be used prior to a softener.

In order to size and apply the equipment correctly, a complete analysis of the water supply should be obtained. This can best be accomplished by contacting your local Culligan dealer, who will be able to test the water supply right at the site, or arrange to have one or more water samples sent to the Culligan laboratory for a more detailed analysis.



Navigating the Menus & Keypad



UP ARROW button: scrolls up the menu



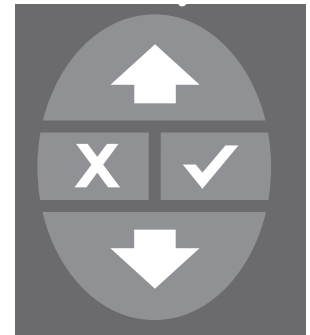
DOWN ARROW button: scrolls down the menu



CHECK MARK button: selects the highlighted option, opens a new screen, or accepts a changed setting



CANCEL or **X** button: returns to the previous screen or cancels a changed setting



Controller



Remote

NOTE Hold down the or to quickly scroll through the setting without repeatedly pressing the button.



Set Date & Time

To update the date and time on the HE Filter, follow this procedure.

Screen Display	Range	Setting Description
FILTERING JAN-01-18 11:19A	N/A	1. Start at the HOME SCREEN . Press to advance to the MAIN MENU SCREEN .
2) MANUAL MODE >3) SET DATE/TIME	N/A	2. Press to scroll to 3) SET DATE/TIME . 3. Press to display the date and time settings.
Set Month		
SET MONTH JAN	Jan-Dec	4. The screen displays the month setting. Press to display the next setting, or press to change the month setting.
SET MONTH >JAN	Jan-Dec	5. The screen displays a cursor next to the month. Press to display the next value (here, changing January to February).
SET MONTH >FEB	Jan-Dec	6. Press to display the next value (here, changing January to February).
SET MONTH FEB		7. Press to accept the new value. The screen displays the month without the cursor and advances to the Day setting.
Set Day		
SET DAY >2	1-30	1. Press to advance to the next setting if the day is correct, or press to change the day setting. Press to display the next value (for example, change 1 to 2). 2. Press to accept the new value. The screen displays the day without the cursor and advances to the Year setting
Set Year		
SET YEAR >2018	2009-30	1. Press to advance to the next setting if the year is correct, or press to change the year setting. Press to display the next value (for example, change 2010 to 2012). 2. Press to accept the new value. The screen displays the year without the cursor and advances to the Clock Type setting.

Set Clock Type



Screen Display	Range	Setting Description
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> CLOCK TYPE >12 HR </div>	12 or 24	<p>Press to advance to the next setting if the clock type is correct, or press and then to change the clock type setting (leave at default setting, 12 hour).</p> <p>Press to accept the new value. The screen displays the clock type without the cursor and advances to the Set Hour setting.</p>
Set Hour		
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> SET HOUR >10AM </div>	12PM–11AM	<p>Press to advance to the next setting if the hour is correct, or press and then to change the hour (in this example, from 12PM to 10AM).</p> <p>Press to accept the new value. The screen displays the hour setting without the cursor and advances to the Set Minutes setting.</p>
Set Minutes		
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> SET MINUTES >20 </div>	0–60	<p>Press to advance to the next setting if the clock type is correct, or press and then to change the minutes (in this example, from 0 to 20).</p> <p>Press to accept the new value. The screen displays the minutes without the cursor and advances to the Daylight Savings setting.</p>
Set Daylight Savings Time		
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> DAYLIGHT SAVINGS >YES </div>	Yes No	<p>Press to advance to the next setting if the daylight savings time setting is correct, or press and then to change the setting.</p> <p>Press to accept the new value. The screen displays the daylight savings setting without the cursor.</p>
Return to the Home Screen		
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> FILTERING JAN-01-18 11:19A </div>		<p>Press until the screen displays the HOME SCREEN and saves the settings.</p>







Information

The following information can be displayed at the control valve or remote display. These settings are read-only. Press or to scroll through the settings. Press to view the previous setting.

Screen Display	Range	Setting Description
FILTERING JAN-01-18 11:19A	N/A	1. From the HOME screen, press to view the main menu.
>1) INFORMATION 2) MANUAL MODE	1-6	2. The screen displays the main menu. Press to select 1) INFORMATION .
FILTER LIFE LEFT 50000 GAL	0- 50,000	3. The screen displays the FILTER LIFE LEFT in gallons. Press to select the next information screen.
FILTER LIFE LEFT 100 DAYS	0-100	4. The screen displays the FILTER LIFE LEFT in days. Press to see the next information screen.
REMAIN CAPACITY 700 GAL	0-no limit	5. The screen displays the filtering capacity remaining, measured in gallons (liters), before initiating reconditioning. Press to see the next information screen.
CURRENT FLOWRATE 10.0 GPM	0-no limit	6. The screen displays the current flow rate, measured in gallons (liters) per minute. Press to see the next information screen.
TODAY'S USAGE 100 GAL	0-no limit	7. The screen displays today's water usage, measured in gallons (liters). Press to see the next information screen.
AVERAGE DAILY 300 GAL	0-no limit	8. The screen displays average water usage for this configuration. Press to see the next information screen.
NEXT REGEN ON JAN-03	N/A	9. The screen displays the date of the next regeneration, based on average daily water usage. Press to see the next information screen.



Screen Display	Range	Setting Description
TOTAL WATER USED 1000 GAL	0-no limit	10. The screen the total water used for this configuration. Whole numbers are displayed above 100 gallons. Press  to see the next information screen.
DEALER ID		11. The screen displays the local dealer's ID number as entered during the First Time Setup. Press  to see the next information screen.
EXT FILT CAP REM 20000 GAL	0-no limit	12. If an external filter is used, the screen displays the remaining capacity of the filter. When the remaining capacity reaches zero, the system triggers the External Filter Alarm. Press  to return to the main menu.
>1) INFORMATION 2) MANUAL MODE		13. The screen displays the main menu. Press  to exit to the home screen.
FILTERING JAN-01-18 11:19A		14. The screen displays the home screen.



Regeneration

There are several conditions that will cause the control to trip a regeneration. The screen displays **REGEN TONITE** when the control has signaled for a regeneration. **REGENERATING** is displayed while the control is in regeneration. The following are conditions that will call for regeneration:

1. When the Soft-Minder® meter has recorded the passage of a predetermined number of gallons.
2. At the preset time, when the number of days without a regeneration is equal to the regeneration interval (timeclock backup) setting.
3. At the preset time, when **REGEN TONITE** is selected. The screen displays **REGEN TONITE**.
4. Immediately, when the **REGEN NOW** is selected. The screen displays **REGENERATING**.
5. Immediately, if power to the unit has been off for more than three (3) hours and time of day has been restored.
6. At the preset time based on **DAY-OF-WEEK** Regeneration setting.

Follow either procedure to initiate a manual regeneration.

Delayed Regeneration

Screen Display	Range	Changing the Setting
FILTERING JAN-01-18 12:01P	N/A	1. At the HOME SCREEN , press <input checked="" type="checkbox"/> and hold for at least three seconds, then release the button.
REGEN TONITE JAN-01-18 12:01P	Regen Tonite	2. The first line of the display will toggle between FILTERING and REGEN TONITE .
REGEN OFF JAN-01-18 12:01P	Regen Off	3. To cancel a delayed regeneration, press and hold the <input checked="" type="checkbox"/> for three (3) seconds, then release the button. The screen displays REGEN OFF .

Immediate Regeneration

Screen Display	Range	Changing the Setting
FILTERING JAN-01-18 12:01P	N/A	1. At the HOME SCREEN , press <input checked="" type="checkbox"/> and hold for at least ten (10) seconds, then release the button.
REGEN NOW JAN-01-18 12:01P	Regen Now	2. The first line of the screen displays REGEN NOW . The filter will initiate an immediate regeneration.
REGENERATING JAN-01-18 12:01P	N/A	3. The first line of the screen displays REGENERATING .



Standard Manual Regeneration

Screen Display	Range	Changing the Setting
Filtering JAN-01-18 12:01P	N/A	1. This is the HOME SCREEN . Press any button except X to advance to the MAIN MENU SCREEN .
1) INFORMATION >2) MANUAL MODE	1-6	2. Press ↓ to 2)MANUAL MODE then press ✓ . The screen displays the Manual Mode settings.
MANUAL MODE >REGEN NOW	Regen Off Regen Now Regen Tonite Bypass	3. Press ✓ and ↑ or ↓ to change the setting. 4. The default is REGEN NOW . Press the ✓ to select this option to begin regeneration immediately. 5. If the screen displays REGEN OFF then the filter will not regenerate. 6. If the screen displays REGEN TONITE then the filter will regenerate that night at 2:00 a.m. (or at the preset regeneration time). The screen displays two status messages: FILTERING and REGEN TONITE . 7. If the screen displays BYPASS then for a specified time the filter will be bypassed. Press ✓ to select the total time the filter is to be in the bypass state.
MANUAL BYPASS >OFF	Off 30 (min) 60 90 120 180 Manual Bypass	8. Press ✓ and ↑ or ↓ to select the total time the filter is to be in the bypass state. 9. Press ✓ to accept this setting. The screen displays the Manual Mode menu.
1) INFORMATION >2) MANUAL MODE		10. Press X until the screen displays the HOME SCREEN and saves the settings.



Things to Check Before You Call for Service

If you unexpectedly experience changes in your water, make these simple checks before calling your Culligan dealer. One of the following conditions may be the reason for your interruption of service.

Important

If any of the following conditions is found, the water filter should be manually recharged according to instructions on [page 10](#) after you have corrected the problem.

Power Supply

Check your power supply cord. Is it plugged fully into the electric outlet? Be certain that the outlet is not controlled by a wall switch which has been turned off. Plug in the transformer then reset conditioner to proper time of day.

Blown Fuse

Check the house fuse or circuit breaker panel. Replace a blown-out fuse or reset an open circuit breaker.

Power Failure

Any interruption in your power supply or time change—such as daylight savings—will disrupt your filter's recharge schedule by causing the timer to run off-schedule. Reset conditioner to proper time of day.

Bypass Valves

Check to see if they are in the proper position. Cul-Flo-Valv[®] Bypass, if used, should be in the "Service" position (see [page 13](#)). If hand valves are used, see that inlet and outlet valve are opened and that the bypass valve is closed.

No Water

If you aren't getting any water flow at all, make sure your water supply is working. Open a tap ahead of the conditioner (outside tap) to see if you have any water pressure. If you have water pressure, check the bypass valve. If it is in the Service position, put it into the bypass and call your Culligan dealer for service.

Increased Usage


Guests, family additions, new water-using appliances, etc., will result in more water usage and may require additional programming by your local Culligan dealer. Please contact your local Culligan dealer.



Error Codes

The following error messages may display on both the HE controller display as well as the Remote Display (if connected).



PROBLEM FOUND
APR-01-18 10:01A

1. When a new controller identifies an error, it is programmed to attempt to correct the error without user input. If the problem persists, the **HOME SCREEN** displays **PROBLEM FOUND**. Press  to display the first error present.

REPLACE FILTER
MEDIA

2. Press  to display any additional errors present.

-->CLEAR ERRORS

3. Press  and  to view action: **CLEAR ERRORS**, **GO TO MENU**, or **EXIT**. If you select **CLEAR ERRORS**, the controller checks the error status and attempts to clear the error. If the error still exists, the home screen displays **PROBLEM FOUND**. If the error no longer exists the screen displays **SYSTEM OK**.

-->GO TO MENU

4. Contact your local Culligan dealer.



When and How to Bypass Your Water Filter

Normally, all water except outside lines passes through the water filter. There are times when the water filter should be bypassed, using the Cul-Flo-Valv® Bypass, or a three-way bypass valve. You should bypass:

1. If lines to outside faucets do not bypass the water filter, and you do not want to waste filtered water on lawn sprinkling or other outside uses.
2. If you are going away on vacation and do not want the unit to recharge.

Bypass Valve

In the back of Culligan water filter is a Cul-Flo-Valv® Bypass valve. To bypass the unit, turn the blue knob clockwise. To return to filtered water service, turn the blue knob counter-clockwise.

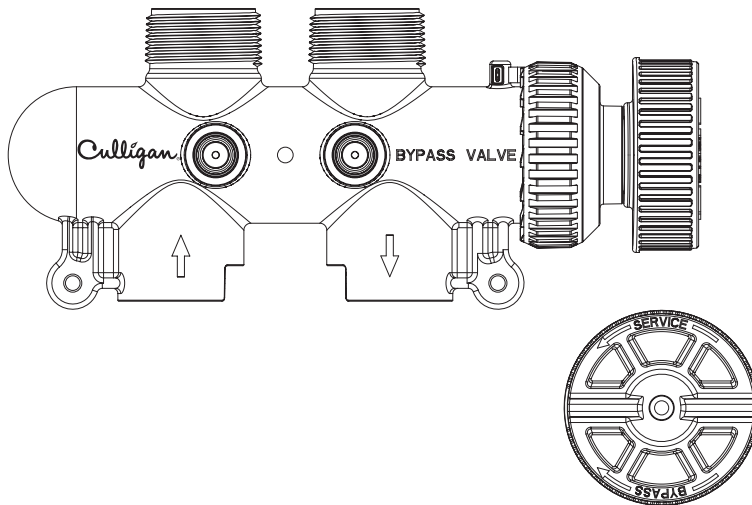


Figure 1. Bypass valve.

Bypassed

To BYPASS, turn the blue knob clockwise (see directional arrow on end of knob) until the knob stops as shown in Figure 1. DO NOT OVERTIGHTEN!

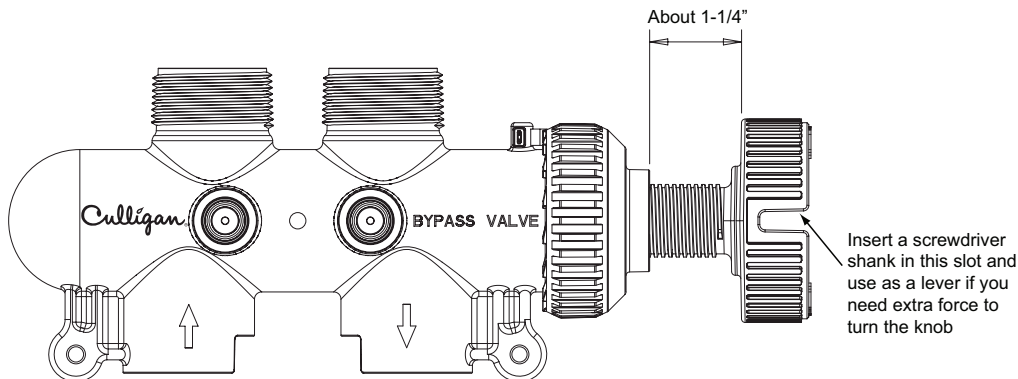


Figure 2. Service valve.

Filtered Water

To return to SERVICE, turn the blue knob counter-clockwise (see directional arrow on end of knob) until the knob stops as shown in Figure 2. DO NOT OVERTIGHTEN!



Performance Data Sheet

High Efficiency 9" Cullar and 10" Cullar Filter

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.

NOTE 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 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA
 (847) 430-2800
 www.culligan.com



Product: Culligan High Efficiency 9" Cullar & 10" Cullar Filter

Testing Conditions & Results:

Capacity:	120,000 gallons for the 9" Filter	Pressure:	60 psi
	180,000 gallons for the 10" Filter	Temperature:	63°-73°F (17°-23°C)
pH:	7.6		
Service Flow:	4.0 gpm @ 2.0 psi for the 9" Filter		
	5.9 gpm @ 5.0 psi for the 10" Filter		

Operating Conditions:

Operating Temperature Range:	33-120°F (1-50°C)
Water Pressure Range:	20-120 psi (1.40-830 kPa)
Water Pressure Range (Canada):	20-90 psi (1.40-620 kPa)
Electrical Characteristics:	28 VDC, 21.6 Watts

Substance Reduction

While testing was performed under standard laboratory conditions, actual performance may vary. This system has been tested according to NSF/ANSI 42 for reduction of the substances listed below.

Substance	Influent Challenge Concentration	Reduction Requirement
Chlorine	2.0 mg/L ± 10%	≥ 50%

The Culligan High Efficiency 9" and 10" Cullar filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA B483.1, and NSF/ANSI Standard 42 for the effective reduction of chlorine taste and odor up to 120,000 gallons for the 9" filter and 180,000 gallons for the 10" filter, as verified and substantiated by test data.

The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42.

Performance Indicator: If water flow decreases or a noticeable taste change occurs, the filter should be backwashed. If conditions do not improve, contact your local Culligan Man®. He can determine if your filter requires servicing. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Refer to the specifications and warranty sections of this owners 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 product are not necessarily in your water.



Performance Data Sheet

High Efficiency 9" Cullneu and 10" Cullneu Filter

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.

NOTE 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 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA
(847) 430-2800
www.culligan.com



Product: Culligan High Efficiency 9" Cullneu & 10" Cullneu Filter

Testing Conditions & Results:

Pressure: 60 psi
Temperature: 63°–73°F (17°–23°C)
pH: 4.9–5.5

Service Flow: 4.0 gpm @ 2.0 psi for the 9" Filter
5.9 gpm @ 3.0 psi for the 10" Filter

Operating Conditions:

Operating Temperature Range: 33–120°F (1–50°C)
Water Pressure Range: 20–120 psi (140–830 kPa)
Water Pressure Range (Canada): 20–90 psi (140–620 kPa)
Electrical Characteristics: 28 VDC, 21.6 Watts

The Culligan High Efficiency 9" and 10" Cullneu filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA B483.1, and NSF/ANSI/CAN Standard 61 for Material Safety requirement only. Not certified for contaminant reductions by WQA.

Performance Indicator: If water flow decreases or a noticeable taste change occurs, the filter should be backwashed. If conditions do not improve, contact your local Culligan Man®. He can determine if your filter requires servicing. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Refer to the specifications and warranty sections of this owners 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 product are not necessarily in your water.



Performance Data Sheet

High Efficiency 9" Filtr-Clear and 10" Filtr-Clear Filter

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NOTE 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 West Higgins Road, Suite 1100, Rosemont, IL 60018 USA
 (847) 430-2800
 www.culligan.com

Product: Culligan High Efficiency 9" Filtr-Clear & 10" Filtr-Clear Filter

Testing Conditions & Results:

Pressure: 60 psi
 Temperature: 63°–73°F (17°–23°C)
 Service Flow: 7.6 gpm @ 15.0 psi for the 9" Filter
 8.1 gpm @ 15.0 psi for the 10" Filter
 pH: 4.9–5.5



Operating Conditions:

Operating Temperature Range: 33–120°F (1–50°C)
 Water Pressure Range: 20–120 psi (140–830 kPa)
 Water Pressure Range (Canada): 20–90 psi (140–620 kPa)
 Electrical Characteristics: 28 VDC, 21.6 Watts

Substance Reduction

While testing was performed under standard laboratory conditions, actual performance may vary. This system has been tested according to NSF/ANSI 42 for reduction of the substances listed below.

Substance	Influent Challenge Concentration	Reduction Requirement
Particulate, Class V particles ≥ 30 to $< 50\mu\text{m}$	At least 1,000 particles/mL	$\geq 85\%$

The Culligan High Efficiency 9" and 10" Filtr-Clear filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA B483.1, and NSF/ANSI Standard 42 for Class V ($\geq 30 \mu\text{m}$ to $< 50 \mu\text{m}$) particulate reduction, as verified and substantiated by test data.

The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42.

Performance Indicator: If water flow decreases or a noticeable taste change occurs, the filter should be backwashed. If conditions do not improve, contact your local Culligan Man®. He can determine if your filter requires servicing. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Refer to the specifications and warranty sections of this owners 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 product are not necessarily in your water.



Important Data on Your Water Filter

It is advisable to have the salesperson or installer fill in the information below for your future reference. If this has not been done, please ask for it, as it is necessary if you contact your dealer.

Identification

Model Name _____ Catalog No. _____

Control Model No. _____ Control Serial No. _____

Date of Installation _____ Tank Serial No. _____

Settings

Time of Recharge: _____ a.m. / _____ p.m.

Regeneration Interval _____ days

Number of people in household _____

Tank Size _____ inches

Water Analysis

Total Hardness _____ (gpg)

Total Iron _____ (ppm)

pH (acidity) _____

Other _____

Records & Data



Culligan Limited Warranty

Culligan High Efficiency® Automatic Water Filters

You have just purchased one of the finest water filters made. As an expression of our confidence in Culligan International Company products, your water filter 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:

For a period of ONE YEAR	The entire filter
For a period of FIVE YEARS	Soft-Minder® meter, if so equipped Remote display or modem
For a period of TEN YEARS	The High Efficiency® Plus circuit board, The control valve body, excluding internal parts
For the LIFETIME of the original consumer purchaser	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 filtering 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

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(847) 430-2800

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You Get Your Water Expert, The Culligan Man

We're here to provide you with fast, dependable service, making sure any problems you have are taken care of. The Culligan Man has been around for over seventy years, delivering quality products and dependable service all along. That's why people say "Hey, Culligan Man!"[®] Because we're the water experts. And that's who you want taking care of your water.

The Culligan Promise

At Culligan, we understand that a water quality improvement system is an investment in your family's well-being. That's why our 1,350 independently operated dealers worldwide don't just sell products; they sell water quality you can count on. We stand behind our products with written limited warranties and our unequalled Culligan service. No matter where you live, you can depend on Culligan expertise to work for you—today and tomorrow.

**With Culligan
You Get More
Than A Quality
Product**



Index

B

Blown Fuse [11](#)
Button [4](#)
Bypass [13](#)
Bypass Valve [11](#), [13](#)

C

Call for Service [11](#)
Cancel Button [4](#)
Check Mark Button [4](#)
Cullar Filter [3](#), [14](#)
Cullneu Filter [3](#), [15](#)

D

Data [17](#)
Date and Time, Set [5](#)
Delayed Regeneration [9](#)
Down Arrow Button [4](#)

E

Error Codes [12](#)

F

Filtr-Clear [3](#), [16](#)

I

Immediate Regeneration [9](#)
Increased Usage [11](#)
Information [7](#)
Introduction [3](#)

K

Keypad [4](#)

M

Manual Regeneration [10](#)
Menus, Navigating the [4](#)

N

No Water [11](#)

P

Performance Data Sheet [14](#), [15](#), [16](#)
Power Failure [11](#)
Power Supply [11](#)

R

Records [17](#)
Regeneration [9](#), [10](#)

S

Specifications [2](#)

T

Time, Set Date and [5](#)

U

Up Arrow Button [4](#)

W

Warranty [18](#)



Notes