



Culligan 2021 Smart High Efficiency Water Filters Owner's Manual

[Home](#) » [Culligan](#) » Culligan 2021 Smart High Efficiency Water Filters Owner's Manual 



**OWNERS GUIDE
High Efficiency
Water Filters
Models from 2021**



Analytical Laboratory Services

Water Testing Made Easy.

Culligan's Analytical Laboratory provides its customers with quality water analysis using EPA-approved methods. Our Analytical The laboratory is certified by the State of Illinois EPA, to be compliant with the National Environmental Laboratory Accreditation Conference (NELAC) standards. In addition to Illinois chemical certification, our Analytical Laboratory is certified to perform coliform and E. coli testing. We strive to provide our customers with the testing they need at the lowest possible cost with the quickest turn-around time.

STANDARD WATER TESTING

For sizing systems and general chemical water characteristics.

WELL WATER TESTING

- Basic
- Realtor
- Drilling Surveillance
- Expanded
- Gold

SPECIAL WATER TESTING

- Hemodialysis
- Scale
- Resin
- Organic
- Microbiology
- Membrane

Contact your local Culligan dealer today to make sure your water is it's best it can be.

1-877-889-8195

E-mail: Water.Analysis@culligan.com

www.culligan.com

Contents

- 1 About This Manual
- 2 Attention Culligan Customer:
- 3 Thank You!
- 4 Specifications
- 5 Application & Operation
- 6 Menu Navigation
- 7 Care & Cleaning
- 8 When & How to Bypass Your System
- 9 Things to Check Before You Call For Service
- 10 Performance Data Sheets
- 11 Records & Data
- 12 Culligan Limited Warranty
- 13 Documents / Resources
- 14 Related Posts

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 unit, read this manual to become familiar with the device and its capabilities. Installation or maintenance done on this system by an untrained service person can cause major damage to equipment or property damage. Not adhering to the recommended service/maintenance can cause damage to equipment or property damage.

Safety Instructions and Safety Definitions

NOTE! "Note!" is used to emphasize installation, operation or maintenance information which is important, but does not present any hazard.



CAUTION!

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



WARNING!

“Warning” is used to indicate a hazard that could cause injury or death if ignored.

The CAUTION and WARNING paragraphs are not meant to cover all possible conditions and situations that may occur.

It must be understood that common sense, caution, and careful attention are conditions that cannot be built into the equipment. These MUST be supplied by the personnel installing, operating, or maintaining the system.

NOTE! Be sure to check and follow the applicable plumbing codes and ordinances when installing this equipment.

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

Attention Culligan Customer:

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 the power supply to prevent electrical shock.

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. Failure to comply with any warning or caution that results in any damage will void the warranty.

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!

This system is to be supplied with cold water only.

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. Children should be instructed not to play with this appliance.

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

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

NOTE! This system is not intended for use with water that is microbiologically unsafe or of unknown quality without adequate disinfection either before or after the system.

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 this Culligan product to your full satisfaction carefully follow the instructions in this manual.

Products manufactured and marketed by Culligan International Company (Culligan) and its affiliates are protected by patents 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. Culligan, Aqua-Sensor, Triple-Hull, and SoftMinder are trademarks of Culligan International Company or its affiliates.

Culligan International Company
9399 West Higgins Road, Suite 1100
Rosemont, Illinois 60018
1-847-430-2800
www.culligan.com

Thank You!

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

Congratulations on selecting the Culligan® High-Efficiency Water Filter system. 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.

If this is your first experience having filtered water in your home, you'll love the amazing difference it makes. We promise that you'll never want to be without it again.

The Culligan High-Efficiency Water Filter system is designed to meet the needs of applications for high-quality water.

This manual contains important information about the unit, including information needed for installation, operating, and maintenance procedures. A troubleshooting section provides a guide for quick and accurate problem-solving. This manual is based on information available at the time it was finalized, approved, and published. Continuing design refinement could cause changes that may not be included in this publication.

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.

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, 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 Water Filter Outdoor Enclosure complies with the UL 50/50E standards for an IP 46 Rating.

Products manufactured and marketed by Culligan International Company (Culligan) and its affiliates are protected by patents 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. Culligan, Cullar, Filter-Clear, Cullneu, AccuSoft, Culligan Man and www.culligan.com are trademarks of Culligan International Company or its affiliates. Licensed plumbers know that standard industry procedures include only hand tightening or using strap wrenches on plastic parts. Plastic piping systems must be installed, operated, and maintained in accordance with accepted

standards and procedures. Not adhering to the recommended service/maintenance can cause damage to equipment or property damage.

Specifications

Culligan High Efficiency (HE) Water Filters

	9"	10"
General		
Mineral Tank Size	9×48 in. (229×1,219mm)	10×54 in. (254×1,375mm)
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	28VDC, 21.6 Watts	28VDC, 21.6 Watts
Electrical Power Consumption, Min./Max.	3 Watts/21.6 Watts	3 Watts/21.6 Watts
Overall Height	54 in. (1,372 mm)	60 in. (1,524 mm)
Filtr-Cleer®		
Rated Service Flow @ Pressure Drop	7.6 pm @ 15 psi	8.1 PM @ 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 pm	7.0 pm
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 pm @ 2.0 psi	5.9 gpm @ 5.0 psi
Drain Flow, Maximum 1	3.5 gpm	5.5 pm
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.
Cullman® 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

Cullen ®		
Rated Service Flow @ Pressure Drop	4.0 gpm @ 2.0 psi	5.9 pm @ 3.0 psi
Drain Flow, Maximum 1	3.5 pm	5.5 pm
pH Limitation*	5.2 to 6.8	5.2 to 6.8
Recharge Time 2	30 min.	30 min.
Recharge Water Consumption, Av. 3	70 gal.	110 gal.
Cullen Media Volume	1.1 cu. ft.	1.6 cu. ft.
Freeboard4	13 ± 1.5 inches	18 ± 1.5 inches

1. Backwash at 120 psi (830 kPa).
2. Factory settings.
3. Factory settings and 120 psi line pressure.

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

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

Application & Operation

It is helpful to understand how your Culligan® HE Water Filter functions and know its capabilities and limitations. The following section provides a brief explanation of how your Culligan filter system operates and the future anticipated service requirements to keep your system functioning efficiently and effectively.

Cullar® Filter

HE Filters with Cullar D+ activated carbon media can reduce chlorine and associated tastes and odors. Some other tastes and odors associated with naturally occurring organics may also be removed. Cullar D+ media can temporarily reduce hydrogen sulfide levels but if hydrogen sulfide is constantly present in the water an odor reduction system specifically designed for hydrogen sulfide reduction is necessary. Whenever the cause of an objectionable taste or odor has not been identified further water testing is required. Cullar D+ media should not be used with water that is of unknown microbiologically quality, is unsafe or contains nuisance bacteria without adequate chemical disinfection with chlorine prior to the Cullar filter system. Cullar D+ filters only require automatic reconditioning cycles to maintain system effectiveness. The Cullar D+ filter media can last for several years in many applications but will eventually need replacement by your local Culligan dealer when it loses its ability to satisfactorily reduce chlorine and its associated taste and odor.

Filter-Clear ®

HE Filter-Clear Water Filters use multi-layered media capable of reducing particulate matter down to 15-microns in particle size. The stratified layers of progressively finer filter media allow filtration through the entire depth of the media bed. This method of filtration minimizes the pressure loss associated with filters that use only one grade of

filter media. The Filter-Clear will not effectively remove colloidal matter and turbidity below the micron rating, the color caused by organics, or dissolved solids.

Common applications follow:

- Reduction of suspended matter in the water.
- Reduction of particulate matter, such as clay, mud, and fine sediment.
- Prefiltration to remove oxidized iron prior to a water softening system.
- Reduction of light sand and sediments.
- After a retention tank when a Cul-Cleer® system with chemical feed is used for oxidation, coagulation, or flocculation.

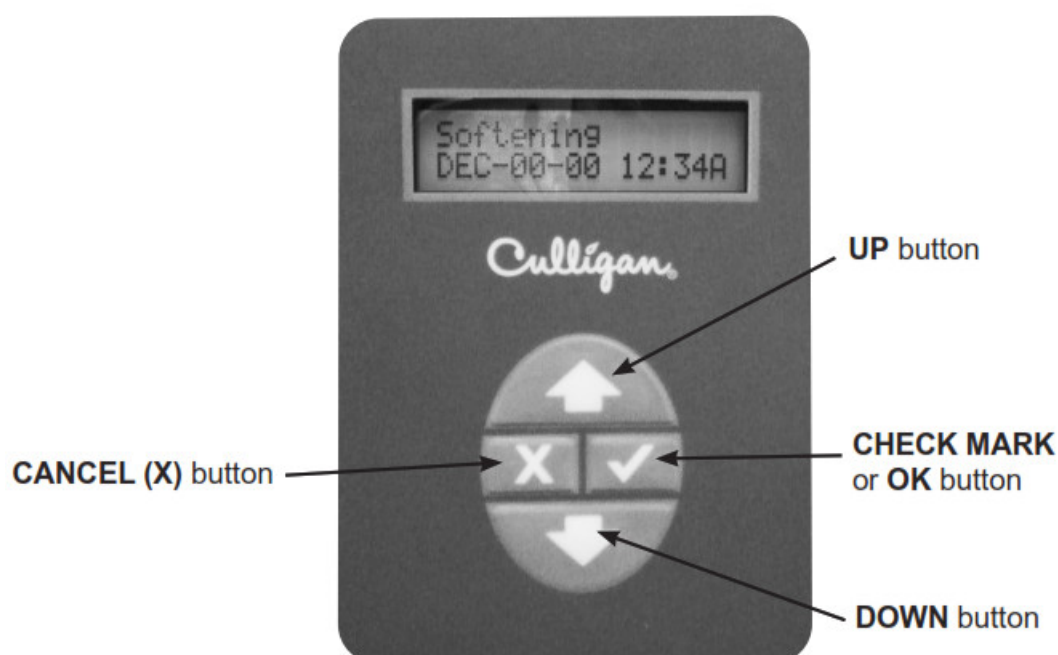
Filtr-Cleaner filters only require automatic reconditioning cycles to maintain effectiveness. The Filter-Clear media can last for several years in most applications. If pressure loss increases over time and can't be resolved by a reconditioning cycle the filter media may need replacement by your local Culligan dealer.





Cullneu® Filter

HE Water Filters with Cullneu Media can neutralize acidic water caused by low pH levels. HE Filters can be used on the water with a pH level from 5.2 to 6.8. Low pH levels are primarily caused by carbon dioxide in the water which forms carbonic acid. Carbonic acid can corrode copper piping resulting in blue/green staining, pipe damage, and pin-hole leaks. Other metals in the plumbing system can also be corroded and dissolved including brass, lead, and iron. Cullen media is a high-purity form of calcium carbonate that reacts with carbonic acid in the water to convert it to bicarbonate alkalinity. This increases the pH and alkalinity level of the water and reduces the potential for corrosion. If the pH level is between 5.0 and 6.0 then one part of Cullneu C media (magnesium oxide) should be mixed with 5 parts of Cullneu media to provide the additional neutralizing capability.

Cullen media is a sacrificial mineral and will dissolve into the water over time. During the neutralization process, some hardness is also added to the water. Cullen filters perform automatic reconditioning cycles to maintain effectiveness. Since Cullneu media is consumed in the neutralization process the media level in the filter tank will need to be periodically replenished by your Culligan dealer to ensure the proper level of pH elevation.

Menu Navigation



   	<p>UP ARROW button: scrolls up the menu</p> <p>DOWN ARROW button: scrolls down the menu</p> <p>CHECK MARK button: selects the highlighted option, opens a new screen, or accepts a changed setting</p> <p>CANCEL or X button: returns to the previous screen or cancels a changed setting</p>
--	---

NOTE! Hold down or to quickly scroll through the setting without repeatedly pressing the button. The control must be returned to the HOME screen if settings are changed. Use the Culligan Connect™ app to update the date or time.

There are several conditions that will cause the control to initiate a reconditioning cycle. The screen displays REGEN TONITE, when the control has signaled for a reconditioning cycle. Regenerating is displayed while the control is reconditioning. The following are conditions that will call for reconditioning:



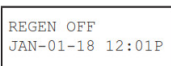


Reconditioning

1. When the SoftMinder® meter has recorded the passage of a predetermined number of gallons.
2. At the present time, the number of days without a reconditioning cycle is equal to the regeneration interval (timeclock backup) setting.
3. At the present 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 present time based on the DAY-OF-WEEK Reconditioning setting.

Follow either procedure to initiate a manual reconditioning cycle.

Delayed Reconditioning

Screen Display	Range	Changing the Setting
----------------	-------	----------------------

  	<p>N/A</p> <p>Regen To nite</p> <p>Regen Off</p>	<ol style="list-style-type: none"> 1. At the HOME SCREEN, press  and hold for at least three seconds, then release the button. 2. The first line of the display will toggle between FILTERING and REGEN TONITE. 3. To cancel a delayed reconditioning cycle, press and hold the  for three (3) seconds, then release the button. The screen displays REGEN OFF.
---	--	--










Immediate Regeneration

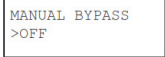




Screen Display	Range	Changing the Setting
----------------	-------	----------------------

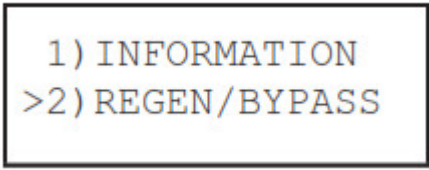
<div>FILTERING JAN-01-18 12:01P</div> <div>REGEN NOW JAN-01-18 12:01P</div> <div>REGENERATING JAN-01-18 12:01P</div>	N/A Regen Now N/A	<ol style="list-style-type: none"> 1. At the HOME SCREEN, press and hold for at least five (5) seconds, then release the button. 2. The first line of the screen displays REGEN NOW. The filter will initiate an immediate reconditioning cycle. 3. The first line of the screen displays REGENERATING.
--	----------------------------	--

Standard Manual Reconditioning

Screen Display	Range	Changing the Setting
----------------	-------	----------------------

<div>Filtering JAN-01-18 12:01P</div> <div>1) INFORMATION >2) REGEN/BYPASS</div> <div>REGEN/BYPASS >REGEN NOW</div>	N/A 1-6 Regen Off Regen Now Regen Tonite Bypass	<ol style="list-style-type: none"> 1. This is the HOME SCREEN. Press any button except EI to advance to the MAIN MENU SCREEN. 2. Press  to 2)REGEN/BYPASS then press  The screen displays the Regen/Bypass settings. 3. Press  and  or  to change the setting. 4. The default is REGEN NOW. Press 1131 to select this option to begin reconditioning cycle immediately. 5. If the screen displays REGEN OFF then the filter will not initiate a reconditioning cycle.. 6. If the screen displays REGEN TONITE then the filter will initiate a reconditioning cycle that night at 2:00 a.m. (or at the preset reconditioning 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. 8. Press  and  or  to select the total time the filter is to be in the bypass state. 9. Press 151 to accept this setting. The screen displays the Manual Mode menu.
---	--	---

	Off 30 (min)60 90 120 180 Manual Bypass	<p>8. Press  and  or  to select the total time the filter is to be in the bypass state.</p> <p>9. Press  to accept this setting. The screen displays the Manual Mode menu.</p>
---	---	--

	<p>10. Press X until the screen displays the HOME SCREEN and saves the settings.</p>
---	---

Culligan Connect™

The Culligan Connect™ interface is an intuitive mobile app and is available on both iOS and Android. Users will see their daily and weekly usage patterns graphically represented and instantly updated each time they open the app. In addition, alerts and the ability to put the unit in bypass mode or a reconditioning cycle from any location provide an all-new level of control and convenience.

Care & Cleaning

Following these simple precautions will help assure continued trouble-free service and keep your Culligan Water Filter looking like new for years.

- Do not place heavy objects on top of the timer cover.
- Use only mild soap and warm water when cleaning the exterior of the system. Never use harsh, abrasive cleaning compounds or those which contain acid, such as vinegar, bleach, and similar products.
- Important: Protect your water filter and the entire drain line from freezing temperatures.



WARNING!

If your unit should freeze, do not attempt to disassemble it. Call your Culligan Dealer.

- Important: Culligan water filters are sold for use on potable water only. If at any time the water becomes contaminated, such as during a “boil water” advisory, the operation of the water filter should be discontinued until it is verified that the water is again potable. To do this, turn the blue knob in a clockwise position, then call your Culligan dealer to have your system sanitized before it is placed back into service.
- Should service, adjustment or trouble-shooting information be needed which is not covered in the Use and Care Guide, call your Culligan Dealer.

For parts and service availability please call your local independently operated Culligan dealer.
For your nearest Culligan dealer, call (800) 285-5442.

When & How to Bypass Your System

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, a 3-valve bypass, or remotely by the Culligan Connect App on your phone or tablet. You should bypass

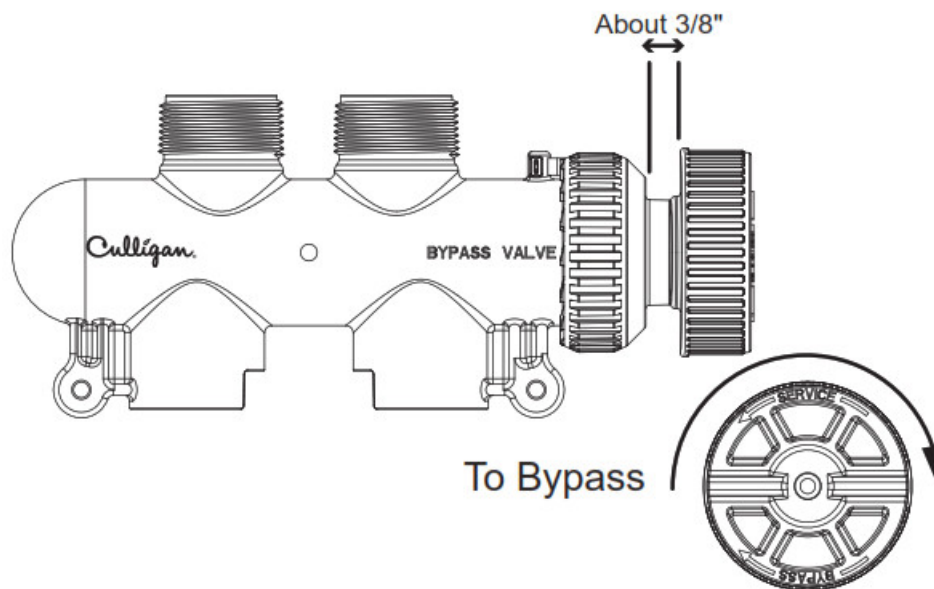
1. If lines to outside faucets do not bypass the water filter, and you do not want to waste softened water on lawn sprinkling or other outside uses.
2. If you are going away on vacation and do not want the unit to recharge.

Bypass Valve

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

To return to softened water service, turn the blue knob counter-clockwise.

Figure 1. Bypass valve

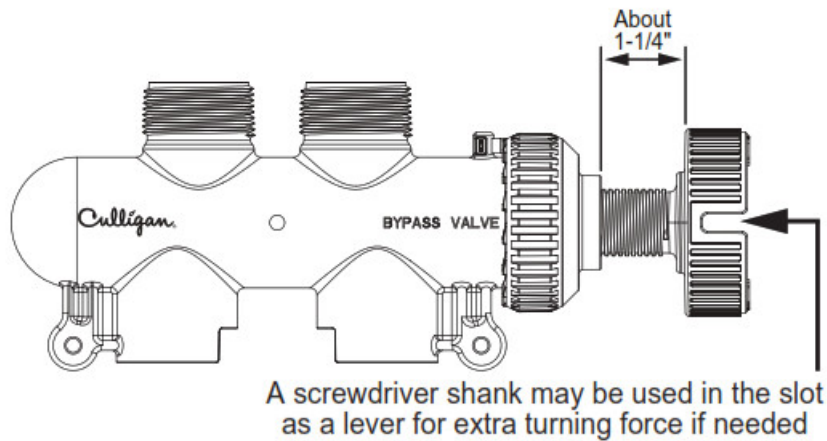


Bypassed

To BYPASS, turn the blue knob clockwise (see directional arrow on the end of knob) until the knob stops as shown in Figure 1.

DO NOT OVERTIGHTEN!

Figure 2. Service valve



Filter Water

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

Things to Check Before You Call For Service

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

Important

If any of the following conditions is found, the water filter should be manually reconditioned according to instructions on “Reconditioning” 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 that has been turned off. Plug in the transformer then reset the conditioner to the correct time of day.

Tripped Circuit Breaker

Check the house circuit breaker panel. Reset a tripped circuit breaker.

Power Failure

Any interruption in your power supply or time change—such as daylight savings—will disrupt your filter’s regeneration schedule by causing the timer to run off schedule. Reset the timer to the correct time of day.

Bypass Valves

Check to see if they are in the proper position. Cul-Flo-Valve Bypass, if used, should be in the “Service” position (handle screwed out). 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 the system into 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.

Outdoor Electrical and Power Supply

- The Installer should set the Media tank on a solid, level surface near plumbing, drain, and electrical connections. The Media tank and plumbing should be secured so the system can't be knocked over.
- The customer should provide a GFCI electrical outlet suitable for outdoor use that is NOT controlled by a switch that can be turned off accidentally.
- For outdoor installation, only use an outdoor-rated power supply.
- power school MUST be mounted on the wall at least 1 foot above ground level, See Figure 3.
- Properly ground to conform with all governing codes and ordinances.
- Observe all state and local electrical codes.
- P/N 01040206 plug-in power supply is rated for indoor installations only, do not use for outdoor installation.
- P/N 01040208 plug-in 20-foot power supply is included and rated for outdoor installations.
- P/N 01040209 optional 20-foot extension power supply cable is rated for outdoor installations (not included).
- For Outdoor use with a UL Listed Class 2 Direct Plug-in Power Unit only.

Performance Data Sheets

Culligan HE 9" Cullar, 10" Cullar, 9" Cullar Outdoor, 10" Cullar Outdoor Water Filter

Culligan knows the more informed you are about your water treatment systems, the more confident you will be about their 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 W. Higgins Rd., Suite 1100 Rosemont, IL 60018 USA (847) 430-2800 www.culligan.com
----------------------	---

Product: Culligan High Efficiency 9" Cullar, 10" Cullar, 9" Cullar Outdoor, and 10" Cullar Outdoor Water Filter

Testing Conditions & Results:

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

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

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 the reduction of the substances listed below.

Name of Substance	Influent Challenge Concentration	Reduction Required
Chlorine	2.0 mg/L \pm 10%	\geq 50%

The Culligan High Efficiency 9" and 10" Cullneu filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA 8483.1, 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, a reconditioning cycle should be initiated. If conditions do not improve, contact your local Culligan dealer. They can determine if your filter requires servicing. Do not use water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Refer to the Specifications, Familiarization, and Warranty section of this Owner's Guide (P/N 01040766) for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan dealer. The performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.

Buyer Signature _____ Date _____
Seller Signature _____ Date _____

Culligan High Efficiency 9" Cullneu, 10" Cullneu, 9" Cullneu Outdoor, and 10" Cullneu Outdoor Water 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 W. Higgins Rd., Suite 1100 Rosemont, IL 60018 USA (847) 430-2800 www.culligan.com
---------------	---

Product: Culligan High Efficiency 9" Cullneu, 10" Cullneu, 9" Cullneu Outdoor, and 10" Cullneu Outdoor Water Filter

Testing Conditions & Results:

Pressure: Service Flow Rate:	60 psi 4.0 gpm @ 2.0 psi for 9" filters 5.9 gpm @ 3.0 psi for 10" filters	Temperature: 63 – 73° F (17 – 23° C) pH: 7.6
---------------------------------	---	---

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

The Culligan High Efficiency 9" and 10" Cullneu filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA 6483.1, and NSF/ANSI/CAN Standard 61 for Material Safety requirements only. Not certified for contaminant reductions by WQA.

Performance Indicator: If water flow decreases or a noticeable taste change occurs a reconditioning cycle should be initiated. If conditions do not improve, contact your local Culligan dealer. They can determine if your filter requires servicing. Do not use water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Refer to the Specifications, Familiarization, and Warranty section of this Owner's Guide (P/N 01040766 for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan dealer. The performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.



Buyer Signature _____ Date _____
Seller Signature _____ Date _____

Culligan High Efficiency 9" Filtr-Cleer, 10" Filtr-Cleer, 9" Filtr-Cleer Outdoor, and 10" Filtr-Cleer Outdoor Water 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 W. Higgins Rd., Suite 1100 Rosemont, IL 60018 USA (847) 430-2800 www.culligan.com
---------------	---

Product: Culligan High Efficiency 9" Filtr-Cleer, 10" Filtr-Cleer, 9" Filtr-Cleer Outdoor, and 10" Filtr-Cleer Outdoor Water Filter

Testing Conditions & Results:

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

Substance Reduction

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

Name of Substance	Influent Challenge Concentration
Particulate, Class V particles ($\geq 30 \mu\text{m}$ to $< 50 \mu\text{m}$)	At least 1,000 particles/mL

The Culligan High Efficiency 9" and 10" Filtr-Cleer filters have been tested and certified by WQA against NSF/ANSI Standard 372, CSA 8483.1, and NSF/ANSI Standard 42 for Class V (30 μm 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 a reconditioning cycle should be initiated. If conditions do not improve, contact your local Culligan dealer. They 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, Familiarization, and Warranty section of this Owner's Guide (P/N 01040766 for more specific product information. To avoid contamination from improper handling and installation, your system should only be installed and serviced by your Culligan dealer. The performance will vary based on local water conditions. The substances reduced by this system are not necessarily in your water.



Buyer Signature _____ Date _____
 Seller Signature _____ Date _____

Records & Data

Important Information about your Culligan Water Filter System

Please fill in the information below for future reference. If you have any questions regarding your Culligan water system, please contact the dealer that installed your system for assistance.

Addition information may also be found by visiting: www.culligan.com

System and Dealer Identification

System Name.....	Model Name:.....
Control Valve Model #.....	Control Valve Serial #.....
Date of Installation:.....	Tank Serial #.....
Culligan Dealer:.....	City/Town:.....
Dealer Phone #.....	State:.....

System Settings

Time of Reconditioning Cycle.....AM/PM Gallons Capacity Per Reconditioning:..... Day Override / Interval:.....	Recommended Culligan Service Interval: Annual:..... Bi-Annual:..... Replenish Neutralizing Media (Cullneu only) Owner Maintenance:..... Replace Cartridge Filter(s)
--	---

Water Analysis

Hardness _____ grains/gallon pH level (acidity) _____ S.U. Iron _____ mg/l Chlorine _____ mg/l	Total Dissolved Solids – TDS _____ _____ mg/l Alkalinity _____ grain s/gallon Manganese _____ mg/l Hydrogen Sulfide (H ₂ S) _____ mg/l Sodium _____ mg/l Chloride _____ mg/l
---	---

NOTE! mg/l (milligrams per liter) and ppm (parts per million) are equivalent units of measurement 1 grain = 17.1 mg/l

Culligan Limited Warranty

Culligan High-Efficiency 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 filter system 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 the LIFETIME of the original consumer purchaser	The Quadra-Hull™ conditioner tank
For a period of TEN YEARS	The High-Efficiency GBE circuit board, control valve body, excluding internal parts and the Fiberglass Conditioner Tank, if so equipped.
For a period of FIVE YEARS	Soft-Minder® meter
For a period of ONE YEAR	The entire conditioner

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 written instructions, or by the use of accessories or components which do not meet Culligan specifications, is not covered by this warranty. Warranty is void if the system is installed outside a building without being rated for outdoor use. 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 A 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

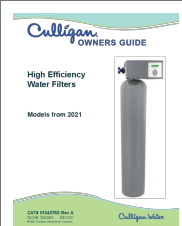
DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES.

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 Rd., Suite 1100
Rosemont, IL 60018 USA
1-800-CULLIGAN or 1-847-430-2800
www.culligan.com



Documents / Resources

	<p>Culligan 2021 Smart High Efficiency Water Filters [pdf] Owner's Manual 2021, Smart High Efficiency Water Filters, 2021 Smart High Efficiency Water Filters, 01040766, 200383</p>
--	---