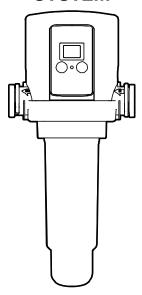


USE AND CARE GUIDE

AUTOMATIC HOUSEHOLD WATER FILTRATION SYSTEM



HDGASS4 is tested and certified by NSF International against NSF/ANSI Standards 42 for structural integrity and materials safety only.



Filter screen is tested and certified by NSF International against NSF/ANSI Standards 42 for materials safety only.



Questions, problems, missing parts? Before returning to the store, call Glacier Bay Customer Service 7 a.m. - 6 p.m., CST, Monday - Friday

1-800-247-1087

HOMEDEPOT.COM/GLACIERBAY

201-8401468 (REV 00)

THANK YOU

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Safety Information

Read all instructions before installing and using your water filtration system. Follow all steps exactly to correctly install. Reading this manual will also help you to get all the benefits from the filtration system.

This filter must only be installed vertically, with the head up and the sump down. It will not operate properly if installed horizontally or at an angle.

All plumbing must be completed in accordance with national, state and local plumbing codes. Local code information can be obtained at your local public works department. Consult with your licensed plumber.

Use only lead-free solder and flux for all sweatsolder connections, as required by federal codes.



WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.



CAUTION: Do not install the filtration system outside, or in extreme hot or cold temperatures. Avoid installing in direct sunlight. Excessive sun heat may cause distortion or other damage to non-metallic parts. Temperature of the water supply to the filtration system must be between 40°F and 120°F. Do not install on a hot water line.



CAUTION: Keep solvents and sprays away from the clear sump housing material. Surface cracking and failure can result.

NOTICE: This filtration system works on water pressures of 30 psi (minimum) to 100 psi (maximum). If your house water pressure is over the maximum, install a pressure reducing valve in the water supply pipe to the filtration system.

NOTICE: All plumbing codes must be completed in accordance with national, state, and local plumbing codes. Local code information can be obtained at your local public works department.

NOTICE: European Directive 2002/96/EC requires all electrical and electronic equipment to be disposed of according to Waste Electrical and Electronic Equipment (WEEE) requirements. This directive or similar laws are in place nationally and can vary from region to region. Please refer to your state and local laws for proper disposal of this equipment.

NOTICE: In the state of Massachusetts: The Commonwealth of Massachusetts plumbing code 248-CMR shall be adhered to. A licensed plumber shall be used for this installation.

Warranty

GLACIER BAY WATER FILTRATION SYSTEMS - WARRANTY

Glacier Bay Water Filtration Systems are manufactured under the highest standards of quality and workmanship. Glacier Bay Water Filtration Systems warrants to the original purchaser that this system will be leak and drip free during normal domestic use for a period of one (1) year from date of purchase. If this system should ever develop a leak or drip Glacier Bay Water Filtration Systems will free of charge provide the parts necessary to put the system back in good working condition. A replacement for any defective part will be supplied free of charge for installation by the purchaser. Defects or damage caused by use of other than authorized parts are not covered by this warranty. This warranty shall be effective from date of purchase as shown on purchaser's receipt, Glacier Bay Water Filtration Systems shall be installed per the manufacturer's installation instructions and specifications. Some states do not allow limitations on how long a warranty lasts, so the above limitation may not apply to you. This warranty is valid for the original purchaser only and excludes industrial, commercial, or business use of the product, product misuse, and product damage due to installation error, whether performed by a contractor, service company, or yourself. Glacier Bay Water Filtration Systems will not be responsible for labor charges or for damage incurred during installation, repair or replacement, nor for incidental or consequential damages. Some states, provinces and nations do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you. Glacier Bay Water Filtration Systems will advise you of the procedure to follow in making warranty claims.

Simply write to Glacier Bay Water Filtration Systems at the address below. Explain the defect and include proof of purchase and you name, address and telephone number or you can also call us at 1-800-247-1087.

U.S.A Canada

Glacier Bay Water Filtration Systems Glacier Bay Water Filtration Systems

2455 Paces Ferry Road, N.W. 900-1 Concorde Gate
Atlanta, GA 30339-4024 Toronto, ON M3C 4H9

Pre-Installation

PRE-INSTALLATION INSPECTION

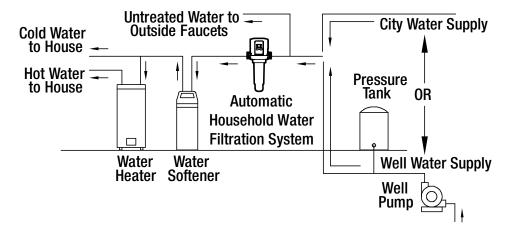
Thoroughly check the water filtration system for possible shipping damaged and parts loss. Also inspect and note any damage to the shipping carton. Remove and discard (or recycle) all packing materials. To avoid loss of small parts, we suggest you keep them in the parts bag until you are ready to use them.

SPECIFICATIONS

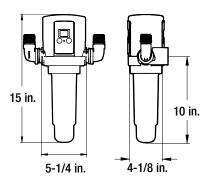
Supply Water Pressure Min Max. 30 - 100 psi (207 - 689 kPa)	
Supply Water Temperature Min Max.	40 - 100°F (5 - 38°C)
Rated Service Flow @ 60 psi (414 kPa)	35 gallons per minute (132 liters per minute)
Inlet - Outlet	1 in. NPT

INSTALLATION LOCATION

To filter sediment from all household water, install the filter system on the household's main incoming water pipe. Install upstream from the water softener (if any), the water heater, and all inside faucets.



DIMENSIONS



HOW THE FILTRATION SYSTEM WORKS

This filtration system is designed to be plumbed into a home's incoming water supply pipe, where it will capture sediment from the water and periodically flush them down the drain.

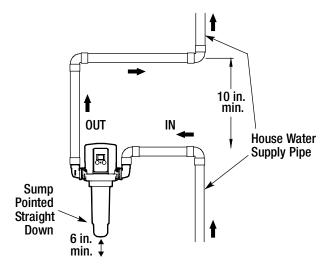
This product is designed to reduce sand, grit, debris, pipe scale and other loose matter. On water supplies that contain sticky sediment including mud, silt and clay, you may have to remove the sump and clean the screen frequently.

The unit has an electronic control that counts down the days until the next automatic flush of collected sediment. The number of days is programmable. The electronic controller runs on a 9 volt battery. The controller will indicate when the battery needs to be replaced. An optional AC power adaptor (P/N 7302835) may also be purchased to eliminate the need for batteries.

Three sizes of filter mesh are available. A 60 micron filter is included with the unit, and optional 100 or 150 micron filters can also be purchased (see the Spare Parts List at the end of this manual).

FILTRATION SYSTEM ORIENTATION

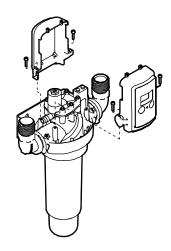
To operate properly, the system must be installed with the sump pointed straight down. When possible, install the system on a horizontal section of the household's main incoming water pipe. If the water pipe runs vertically where you want to install the filter, buy 90° pipe elbows and plumb a detour. Allow enough space under the system (6 in. minimum) to remove the sump (to clean or replace the filter screen). Allow enough space above the system to remove the top cover (to change batteries, etc.).



REVERSING THE FACEPLATE/DISPLAY

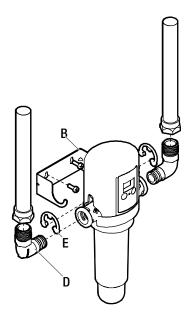
The system must be installed with the water flowing into the side marked IN. Remove the unit's top cover and observe the IN and OUT markings. Depending on the direction of water flow and the viewing angle, the faceplate may need to be reversed so that it does not end up against a wall or other obstruction. This can be done either before or after the filter is installed on the plumbing:

- 1. Remove the top cover by sliding it upward.
- With a Phillips screwdriver, remove the screws holding the faceplate assembly to the filter head.
- Lift the faceplate assembly up and turn it around 180°, taking care not to pull on the wires between the electronic control board and the valve solenoid.
- Lower the faceplate assembly into place on the opposite side of the head and reinstall the two screws.
- 5. Slide the top cover back on and push it down to snap into place.



MOUNTING BRACKET

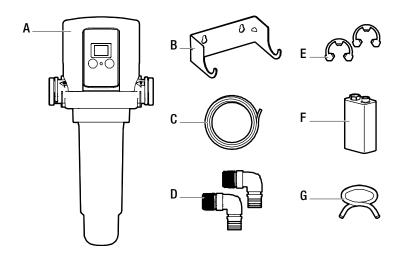
A metal bracket (B) is included with the system to support the assembled system and plumbing when necessary. It may be mounted to a wall or wall framing member with two screws (included).



TOOLS REQUIRED



PACKAGE CONTENTS



Part	Description	Quantity
Α	Filtration System	1
В	Mounting bracket with two screws	2
С	Drain hose	1
D	Adapters	2
E	Clips	2
F	9V Battery	1
G	Hose clamp	1

Installation Requirements

PLUMBING CODES

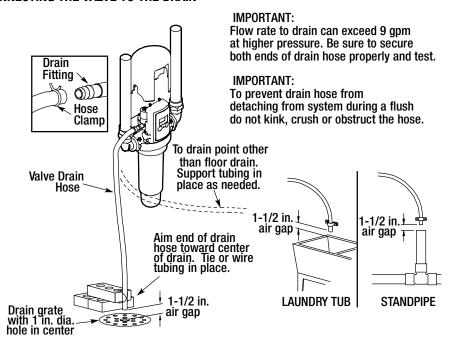
All plumbing must be completed in accordance with national, state, and local plumbing codes.

NOTICE: In the state of Massachusetts, the Commonwealth of Massachusetts plumbing code 248-CMR shall be adhered to. A licensed plumber shall be used for this installation.

AIR GAP REQUIREMENTS

A drain is needed for sediment flush discharge water. A floor drain, close to the filter, is preferred. A laundry tub, standpipe, etc. are other drain options. The valve drain hose must be secured in place, since drain water will be spraying from the end of the hose at a high rate during flush cycles. Leave an air gap of 1-1/2 in. between the end of the hose and the drain. This gap is needed to prevent backflow of sewer water into the filter. Do not put the end of the drain hose into the drain.

CONNECTING THE VALVE TO THE DRAIN



VALVE DRAIN REQUIREMENTS

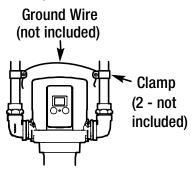
Using the flexible drain hose (included), measure and cut to the length needed.

- Avoid a drain hose that runs longer than 10 ft. Make the valve drain line as short and direct as possible.
- If possible, avoid elevating the drain hose. This could reduce the effectiveness of the flush cycle, especially in a low pressure application.
- The drain must be capable of handling a flow of 5 to 10 gallons per minute, depending on the home's water pressure.
- The drain must be capable of handling the sediment being flushed from the filter.

Installation Requirements (continued)

GROUNDING INFORMATION (FOR INSTALLATIONS ON A METAL PIPE)

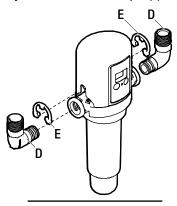
The house main incoming water pipe is often used to ground electrical outlets in the home. Grounding protects you from electrical shock. Installing the filter may break this ground. To restore it, buy and install a #4 copper wire across the filter, tightly clamped at both ends, as shown below.



Installation

1 Attaching the adaptors and clips to the fitter

- Insert the adaptors (D) into the holes on each side of the filter head.
- Secure in place with the clips (E). Ensure all three tabs of the clips go through the matching holes and fully in the channels on the adaptor (D).



CORRECT ASSEMBLY



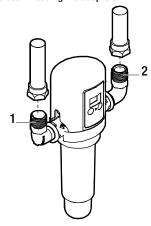
Outside diameter of Filtration System Head Outside diameter of clip channel on Adaptor

2 Connecting the water supply lines



IMPORTANT: Do not solder the metal plumbing while attached to plastic installation adaptors. Solder heat will damage the adaptors.

- Seal the inlet (1) and outlet (2) threads of the filter adaptors with several wraps of sealant tape.
- Connect the water supply lines to the inlet (1) and outlet (2) using 1 in. female NPT threaded adaptors (not included). Use caution to avoid cross-threading the adaptors.



3 Installing the drain hose

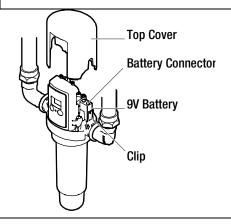
- Measure, cut to needed length, and connect the 3/8 in. drain line (provided) to the filter's valve drain fitting. Use a hose clamp to hold the hose in place.
 See "Connecting the Valve to the Drain" on page 8 for a complete diagram of this procedure.
- Run the drain hose or copper tubing to the floor drain. Secure the drain hose. This will prevent the drain line from "whipping" during sediment flush cycles. See the "Air Gap Requirements" section on page 8.

4 Checking for leaks

- With the installation steps completed, fully open the home's main water supply valve.
- Check for leaks at all the plumbing connections you made.
- Make sure the electronics are completely dry before powering the unit up (as described in the next section).

5 Installing the battery

- $\hfill\Box$ Take the included 9V battery out of its plastic wrap.
- □ Remove the top cover by sliding it upward.
- Snap the battery connector onto both terminals of the 9V battery.
- Place the connected battery into the clip provided for it directly above the IN port.
- Slide the top cover back on and push it down to snap into place.



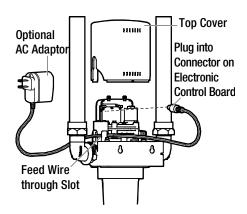
6 Optional: Using an AC adaptor (not included)

An optional AC adaptor (P/N 7302835) is available to supply 9V DC power to the electronic control instead of using a 9V battery. This adaptor has 5 ft. of wire. One end plugs into a household 120V AC, 60 Hz. outlet and the other end plugs into the back of the electronic control board. See the Replacement Parts section on page 16 for ordering information.



IMPORTANT: Do not use any AC adaptor other than the EcoPure P/N 7302835 with this filter.

- Remove the top cover by sliding it upward.
- Remove any previously installed 9V battery (disconnect it from the battery connector and lift it out of the clip above the IN port).
- Locate the small round plug on one end of the AC adaptor cable and insert this into the connector on back of the electronic control board.
- Plug the other end of the AC adaptor into a 120V, 60
 Hz household electric socket.
- Before replacing the cover, feed the wire through the small slot above the IN port.
- Slide the top cover back on, making sure not to pinch any wires, and push it down to snap into place.



Programming the Electronic Controller

POWERING UP

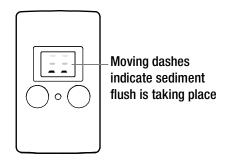
When the controller is powered up (by installing the battery or plugging in the optional AC adaptor), the display will briefly show the software version (example "1.0"), then the number of days until the next automatic sediment flush.

MANUALLY STARTING A SEDIMENT FLUSH

After all installation steps have been completed, initiate a manual sediment flush as follows:

- Press the CLEAN NOW button and hold it for at least 2 seconds. When the 2-digit display changes to show moving dashes release the CLEAN NOW button.
- 2. Check the drain hose to ensure a secure connection.
- The sediment flush sequence takes about 30 seconds to complete. The flow of water to the drain will start and stop several times.
- Once the sediment flush has been completed, the 2-digit display will change to show the number of days until the next automatic flush (or if the automatic flush feature has been turned off it will show "--").

The filter can be manually activated to flush sediment at any time, regardless of whether or not it is set to flush automatically.

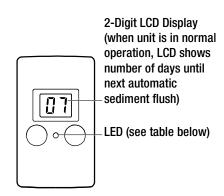


NORMAL OPERATION

During normal operation, the LED will momentarily blink green every 8 seconds and the 2-digit display (LCD) will show the number of days remaining until the next automatic sediment flush. Momentarily pressing the PROGRAM button shows the setting for the number of days between flushes.

LCD BACKLIGHT

The 2-digit display has a backlight that goes on whenever a button is pressed. It goes off again after 10 seconds if no more buttons have been pressed (to conserve battery life). Momentarily press either the PROGRAM or CLEAN NOW button to turn on the backlight.



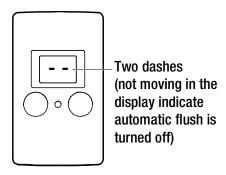
LED Color	State of LED	Shows when	
Green	Blinks every 8 seconds	The unit is in normal operation.	
Amber	On steady	You are programming the controller.	
Red	Blinks every 8 seconds	The battery is low.	
None	Completely off	The battery is dead or disconnected.	

Programming the Electronic Controller (continued)

SETTING THE NUMBER OF DAYS BETWEEN AUTOMATIC SEDIMENT FLUSHES

The filter controller is shipped with a default value of 7 days between automatic sediment flushes. To change the number of days (between 1 and 30) or to turn this feature off:

- Press the PROGRAM button and hold it for at least 2 seconds. When the LED turns on steadily with an amber color, quickly release the PROGRAM button.
- While the amber LED is on (it turns off after 10 seconds of button inactivity), repeatedly press the PROGRAM button until the desired number of days shows in the display. Each press increases the number of days by 1. When the number passes 30, it returns to zero, indicated by "- -", and counts up from 1 again.
- Setting the number of days to "- -" (zero) turns off the automatic flush feature.
- 4. When the desired number of days shows in the display, wait 10 seconds (press no more buttons) for the amber LED to go off. The new number of days is programmed. This new setting will remain after a battery change or power loss.



TIME OF DAY WHEN FLUSH OCCURS

The time of day when the automatic sediment flush occurs is the same time of day as when the most recent of the following was done:

- ☐ The filter was powered up (battery installed or replaced, optional AC adaptor plugged in).
- The number of days was set.
- A manual flush was initiated.

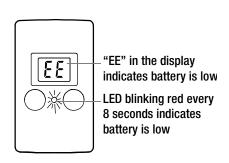
If a different time of day is desired for automatic flush, initiate a manual flush at the desired time of day.

LOW BATTERY INDICATION/BATTERY REPLACEMENT

If the LED is blinking red every 8 seconds (and the 2- digit display shows "EE"), then the battery needs to be replaced.

- Remove the top cover from the filter by sliding it upward.
- Locate the old battery and unsnap it from the battery connector. Dispose of (recycle) the old battery properly.
- 3. Take a new 9-volt battery and snap the battery connector onto both terminals.
- Place the connected battery into the clip provided for it directly above the IN port.
- Slide the top cover back onto the filter and push it down to snap into place.

No reprogramming of the controller is necessary after battery replacement or a power outage.

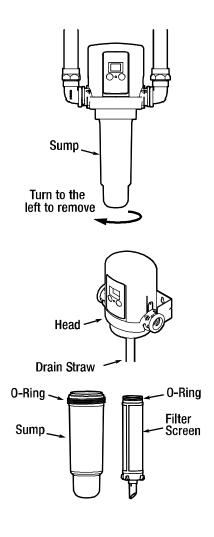


Maintenance

CLEANING THE FILTER SCREEN

It may be necessary to manually clean the filter screen from time to time. On water supplies that contain sticky sediment including mud, silt and clay, you may have to remove the sump and clean the screen frequently. Also, if the filter has not been automatically flushing for any reason, such as a dead battery, a larger amount of sediment than normal may have accumulated in the sump. In this case it is recommended that the sump and filter be cleaned manually (an excess amount of sediment could plug the valve).

- Before shutting off the water supply (as directed in Step 2), fill a bucket full or sink full of water to use for cleaning the filter screen.
- 2. Shut off the main house water supply valve upstream from the filter.
- Open a cold water faucet in the house (downstream from the filter) to depressurize the system. Then close this faucet again.
- Remove the sump by turning it to the left to unscrew it from the filter head. Be prepared for water to drip out of the filter head when the sump is removed.
- Remove the filter screen assembly by pulling it down out of the filter head.
- Using the water you saved in Step 1, wash the filter screen assembly. If necessary, gently scrub the filter mesh with a soft brush to remove material from the pores.
- The drain straw may have come out of the filter head when the sump and filter screen were removed. If so, reinsert it into the small hole at the center of the head assembly.
- 8. Make sure the small 0-ring is in place on the filter screen assembly. Make sure that no sediment particles are on the 0-ring or the corresponding sealing area in the head. Slide the filter screen over the drain straw and into the corresponding hole at the center of the filter head. Push it in to engage the 0-ring seal.



- 9. Make sure the large 0-ring is in place on the sump. Make sure no sediment particles are on the 0-ring, sump threads or corresponding threads in the filter head. Slide the sump over the filter screen and screw it into the filter head to seal. Do not overtighten.
- 10. Open a cold water faucet in the house downstream from the filter.
- 11. Turn the main house water supply back on.
- 12. Close the faucet that you opened in Step 10 after air has been expelled from the system and water is flowing smoothly with no spurting.
- 13. Check that there is no water leaking from the sump threads. Tighten the sump if necessary.

Troubleshooting

Problem	Possible Cause	Solution
Sediment flush does not initiate.	The battery is dead.	Replace the battery.
There is a low or no water flow through the filter.	The filter is plugged.	Manually clean filter screen. It may be necessary to reduce the number of days between automatic sediment flushes.
Sediment does not leave the sump during the sediment flush cycle.	The valve is plugged.	Manually clean the filter screen. After water has been turned back on, initiate another clean cycle (hold the CLEAN NOW button for 2 seconds). Repeat if necessary. If caused by too great a volume of sediment, it may be necessary to reduce the number of days between automatic sediment flushes. If this does not clear the plugged valve, it may be necessary to disassemble the valve and clean manually as explained in the Disassembling the Valve section.
	The drain hose is plugged.	Disconnect the drain hose, remove the obstruction, and reconnect.
	There is insufficient water pressure.	Make sure the water pressure requirement of 30 psi minimum is met. Shorten the drain line.
	Misapplication of the product.	See the "How the Automatic Sediment Filter Works" section of this manual.
There is a continuous leak to the drain.	The solenoid seat is dirty.	Initiate several clean cycles. If the leak continues, remove the valve solenoid and clean the seat area. See the "Disassembling the Solenoid" section of this manual.
	The valve is plugged or the valve seat is dirty.	Manually clean the filter screen. After water has been turned back on, initiate another clean cycle (hold the CLEAN NOW button for 2 seconds). Repeat if necessary. If caused by too great a volume of sediment, it may be necessary to reduce the number of days between automatic sediment flushes. If this does not clear the plugged valve, it may be necessary to disassemble the valve and clean manually. See the "Disassembling the Valve" section on page 15.

Troubleshooting (continued)

DISASSEMBLING THE SOLENOID

(See the Exploded View drawing in the Replacement Parts section on page 16.)

If the Troubleshooting table indicates that the solenoid seat requires cleaning, use the following procedure:

- Before shutting off the water supply (as directed in Step 2), fill a bucket or sink full of water to use for cleaning.
- 2. Shut off the main house water supply valve upstream from the filter.
- Open a cold water faucet in the house (downstream from the filter) to depressurize the system. Close the faucet again.
- 4. Remove the solenoid by unscrewing it from the top of the valve using a flat screwdriver.
- 5. Using the water you saved in Step 1, clean the solenoid seat, plunger, and hole.
- Make sure the O-ring is in place and reinstall the solenoid, being careful not to cross-thread.
- Open a cold water faucet downstream from the filter.
- 8. Turn the main house water supply back on.
- 9. Close the faucet that you opened in Step 7 after air has been expelled from the system.
- 10. Check that there is no water leaking from the solenoid thread area. Tighten the solenoid if necessary.

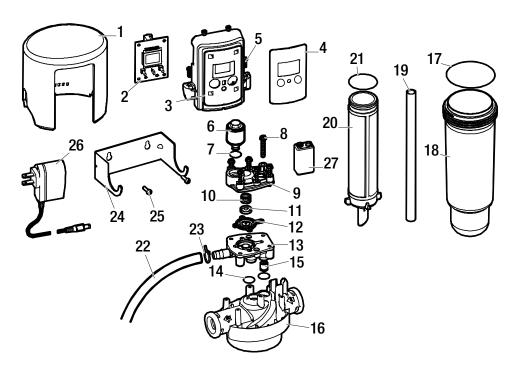
DISASSEMBLING THE VALVE

(See the Exploded View drawing in the Replacement Parts section on page 16.)

If the Troubleshooting table indicates that the valve requires cleaning, use the following procedure:

- Before shutting off the water supply (as directed in Step 2), fill a bucket or sink full of water to use for cleaning.
- 2. Shut off the main house water supply valve upstream from the filter.
- Open a cold water faucet in the house (downstream from the filter) to depressurize the system. Close the faucet again.
- 4. Remove the six screws from the top of the valve and lift off the valve cover.
- 5. Using the water you saved in Step 1, clean the diaphragm and seat area of the valve body.
- 6. Make sure the two small holes in the valve body under the diaphragm are not plugged.
- Reassemble the valve, making sure the diaphragm is right side up (small knob at center points up) and the other components are properly placed.
- 8. Open a cold water faucet downstream from the filter.
- 9. Turn the main house water supply back on.
- 10. Close the faucet that you opened in Step 8 after air has been expelled from the system.
- 11. Check that there is no water leaking from the valve sealing area. Tighten the screws if necessary.

Replacement Parts



Key No.	Part No.	Description
1	7298442	Top Cover
2	7295177	Electronic Control Board (PWA)
3	7298434	Faceplate (order decal below)
4	107-8402032	Decal, Faceplate
5	7300346	Screw, 6-19 x 1/2" (2 req.)
6	7301596	Solenoid
7	7301758	0-Ring, Solenoid
8	7300338	Screw, 10-16 x 1-1/4" (6 req.)
9	7298426	Valve Cover
10	7301520	Spring
11	7301685	Retainer, Spring
12	7301512	Diaphragm
13	7298418	Valve Body
14	7300320	O-Ring, Valve (2 req.)
15	7272658	Check Valve

Key No.	Part No.	Description
16	1073-27-HA	Head Assembly
17	7300312	O-Ring, Sump
18	7298395	Sump
19	7300304	Drain Straw
	7298808	Filter Screen Assembly, 60 Micron (includes Key No. 21)
20	7298816	Filter Screen Assembly, 100 Micron (includes Key No. 21)*
	7298824	Filter Screen Assembly, 150 Micron (includes Key No. 21)
21	7011086	0-Ring, Filter
22	7139999	Drain Hose, 20 ft.
23	0900431	Clamp, Drain Hose
24	1073-27-03	Bracket, Mounting
25	9006053	Screw, 10-16 AB (2 req.)
26	7302835	AC Power Adaptor*
27	-	Battery, 9 Volt, Standard
•	201-8401468	Owner's Manual

[■] Not illustrated * Optional – not included with Automatic Household Water Filtration System
To order replacement parts call 1-800-247-1087, 7 a.m. - 6 p.m., CST, Monday - Friday



Questions, problems, missing parts? Before returning to the store, call Glacier Bay Customer Service 7 a.m.-6 p.m., CST, Monday-Friday

1-800-247-1087

HOMEDEPOT.COM/GLACIERBAY

Retain this manual for future use.

Manufactured by Ecodyne Water Systems 1890 Woodlane Drive Woodbury, MN 55125