

Congratulations

MG-10 Cutaway

Congratulations on your purchase of the Natural Home MG-10 home filtration system. The MG-10 is designed to offer the best point-of-entry filtration performance for homes and small businesses, effectively reducing a broad spectrum of contaminants for an average of 5 - 7 years.

Please review this guide carefully and give a copy to your licensed plumber before they arrive to install your system. You should keep this guide for reference as it will assist you with testing, programming, or troubleshooting your unit in the future if necessary.

- ◆ Protects your family by reducing chlorine, chloramines, volatile organic compounds (VOCs), THMs, and heavy metals
- ◆ Pure, safe, natural-tasting water
- ◆ A spa experience in every bath or shower

Specifications

Media	Carbon: 1 Ft ³ GAC & Centaur mix KDF: Mediaguard with four parallel KDF55 stages Bed: Filter Sand, Mixed Garnet, and Filter Gravel
Flow Rate	10 gallons (38 liters) per minute @ 50 psi inlet
Water Pressure	40 - 100 psi (2.76 bar - 6.895 bar)
Dimensions	11" (27.9cm) diameter x 56" (142.2cm) high
Connections	Inlet/Outlet 1" (25.4mm) male NPT Drain 1/2" (12.7mm) barbed fitting
Weight	130 lbs. (59 kg)
Operating Temperature	40° - 150° F (4.4° - 66° C) Warning: Do not allow exposure to freezing temperatures
Construction	Polished 304L 14 Gauge Stainless Steel Tank
Controller Valve	FLECK 5600SXT - AC 110v, 60 Hz (220v, 50 Hz optional)
Rated Filter Life	5 - 7 Years
Product Warranty	3 Years Mechanical

System Requirements

Water Source	Engineered for use with potable, municipally treated water only. Water source must produce a minimum of 5 gpm at 35 psi for proper regeneration.
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Stainless Steel

A 304L 14 gauge stainless steel tank coated internally to resist chemical pitting and corrosion.

KDF Mediaguard®

An oxidative mineral which reduces chlorine and chloramines and improves carbon life.

Filter Sand

First level of filter bed. Helps prevent channeling in carbon media. Also reduces particulates and traps sediments and foreign debris.

Filter Gravel

Final level of filter bed. Helps prevent channeling in carbon media. Also reduces particulates and traps sediments and foreign debris.

Valve Controller 5600-SXT

An automatic backwash valve that regenerates the system every 4 days, flushing out contaminants and extending filter life. Comes pre-programmed.

Carbon Blend

1 ft³ mix of Centaur and GAC Coconut Carbon reduces harmful chemicals such as chlorine and chloramines, as well as trihalomethanes (THMs), volatile organics (VOCs), dirt, rust, lead, sediment, foreign odors, and improves taste.

Garnet

Second level of filter bed. Helps prevent channeling in carbon media. Also reduces particulates and traps sediments and foreign debris.



Blue arrows indicate water flow through MG-10.

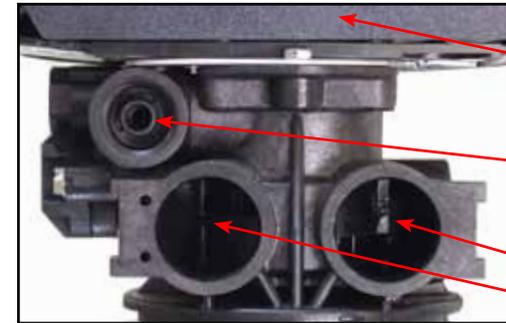


Parts Checklist

1. Bypass Valve
2. 1" Male NPT Adapter
3. O-ring Couplings (2)
4. Mesh Bag
5. Barbed Drain Elbow

Important Notes on Installation

- ◆ **Water Testing** — Because of variances in water quality, if your water source is a well, please contact Support at 1-800-428-9419 before installation. You should have your water tested by a certified water laboratory.
- ◆ **Water Shutoff** — Naturally Filtered will not be held liable for damages, including any and all water damage caused by this product or its plumbing. It is recommended that the homeowner consider the use of an electronic water shut off system (such as WaterCop – <http://www.watercop.com>). See Warning page 9.
- ◆ **Drainage** — The MG-10 requires a drain or drain field (dependant on local plumbing code) for the unit to dispose of water during its regeneration cycle. The drain or drain field must be able to disburse a minimum of 5 GPM.
- ◆ **Water Pressure** — Water pressure should not exceed 100 psi. If your water pressure is close to 100 psi, you must have a plumber install a pressure regulator on your main line before the MG-10.
- ◆ **Existing Plumbing** — The condition of the existing plumbing should be free from lead, lime, and iron buildup. Piping that is heavily built up with lead, lime, and/or iron should be replaced. All new plumbing should be performed in accordance with local plumbing codes.
- ◆ **Electric Code** — An uninterrupted alternating current 110V (AC), 60 Hz, supply is required. Unit must be installed to meet the current National Electric Code. A ground-fault-interrupt (GFI) outlet is recommended to protect your unit.



Assembly

- Rear of Housing
- Drain Line Outlet**
- Elbow attaches here
- Main Supply Connection**
- Water supply OUT
- Water supply IN



Step 1 - Barbed Drain Elbow

Install Barbed Drain Elbow into Drain Line Outlet (Teflon tape may be used). This step must be completed prior to connecting O-ring Couplings.



Step 2 - O-ring Couplings

Install *both* O-ring Couplings to the Main Supply Connection channels (one on right or OUT channel shown here).



Step 3 - Bypass Valve

Attach the Bypass Valve Assembly to the Control Valve over the O-ring Couplings just installed and lock in place using the metal locking clamps.



Step 4 - Secure Complete Manifold

Add 1" Male NPT Adapter and secure to manifold by tightening metal locking clamps.



Inlet and Outlet Bypass Valves Open

Here bypass valves are open. This is the normal service position for the MG-10.



Inlet & Outlet Bypass Valves Closed

In this position your MG-10 is in full by-pass mode.

MG-10 Control Valve Master Programming

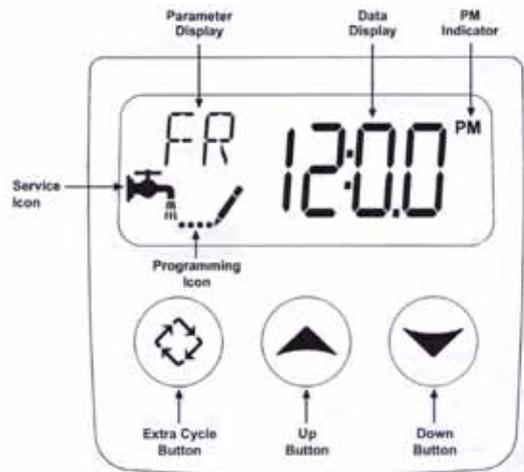
Plug the control valve into an approved GFI power outlet using the supplied electrical cord; operation in the service position begins automatically.

Your MG-10 is set at the factory default settings noted below. You can either check or change the settings by following these instructions.

Note: Display will cycle every 5 to 10 seconds between the Time and number of days until the next regeneration cycle. This is normal.

Power Failure: In the event of power failure, the control valve will continue to keep time for 48 hours. All programming is saved indefinitely. When power is restored, **Data Display** will flash indicating power interruption. Press any button and display will stop flashing.

Manual Regeneration: To manually regenerate filter, press & hold the Extra Cycle button for 10 seconds.



Entering Programming Mode



1. Enter **Time of Day** mode (TD on left side) by pressing either the **Up** or **Down** arrow, and continue until display reads 12:01PM.



2. Press **Extra Cycle** button OR leave display idle for ten seconds and **Time of Day** mode will be exited.



3. While time reads 12:01PM **press & hold both the Up and Down** arrows until display changes to (DF GAL). You are now in programming mode.

Programming Mode - General Instructions

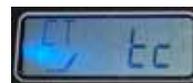
For each step below, press the **Up** or **Down** arrow until the display matches the step's image. **Proceed to each next step by pressing the Extra Cycle button once.**



1. Display should read (DF GAL)
DF = Display Format / GAL = Gallons



2. Display should read (VT FLtr)
VT = Valve Type / FLtr = Filter



3. Display should read (CT tc)
CT = Control Type / tc = Time Clock



4. Display should read (NT---1)
NT = Number of Tanks / 1 = One



5. Display should read (DO 4)
DO = Day Override (days between regeneration)
Note: Regeneration every 4 days is the maximum recommended interval. Your source water may require regeneration cycles to be performed more often.



6. Display should read (RT 3:00)
RT = Regeneration Time / 3:00 = 3 AM
Note: This setting represents the time of day in which the regeneration cycle will occur. Adjust if desired.



7. Display should read (BW 15)
BW = Backwash / 15 = Fifteen Minutes



8. Display should read (BD 0)
BD = Brine Draw / 0 = Zero Minutes



9. Display should read (RR 5)
RR = Rapid Rinse / 5 = Five Minutes
Note: When Extra Cycle button is pressed, Programming Mode will be exited.

Display will revert to normal operation. Adjust the time of day to your current local time using the **Up** or **Down** arrows.

Programming is now complete.

Installation & Testing

After reviewing the precautions and items on the previous pages and programming the master control valve, it is time to install your new MG-10 Home System.

A suitable location should be selected for installation. The MG-10 is designed to be installed outdoors in an insulated enclosure on a cement slab. It should be protected from temperatures below 40°F and sun and rain damage. If the MG-10 is installed where variations in water and air temperature could result in condensation forming on the tank, place the MG-10 on a drain pan during installation to prevent condensation damage to surface.

Step 1 Locate and shut off the Main water supply line.

Step 2 Place the MG-10 Bypass valve into Bypass Mode (see image at right).

Note: Ensure that all plumbing is done in compliance with your local and state plumbing codes.

Step 3 The Main water supply line should be cut, diverted, and plumbed to and from the 1" Male NPT Adapter on the MG-10 (see sample photo, lower right). Teflon tape or Plumbers Dope can be used as necessary. Ensure the incoming and outgoing water supplies are plumbed correctly according to the direction symbols located on the Bypass valve.

Note: For Copper Pipe & Fitting Installations: The 1" Male NPT Adapter is made of a composite material and can deform or melt when exposed to flame. To avoid damage to this part, sweat a section of pipe to the 1" female connectors prior to threading them on to the Adapter.

Step 4 Attach 1/2" Drain line to Barbed Drain Elbow and secure with hose clamp. 1/2" I/D braided flexible line is recommended. Drain line can be hard plumbed with 1/2" pipe after initial testing if desired.

Note: Drain line is used for initial testing. A suitable temporary location where water can flow freely through the mesh bag (included) without damage to surroundings is required.



Bypass Mode
Both the Inlet and Outlet should be closed.



Sample Install Photo

Installation Testing

Now that installation is complete, the MG-10 should be tested to ensure that all parts are functioning properly. **Warning: Failure to close the manifold outlet could result in carbon or other material being released into the home's plumbing, possibly causing significant plumbing damage. Naturally Filtered is not liable if these steps are not completed.**

Step 1 Ensure both the inlet and outlet valves on the MG-10 manifold are closed (see page 3).

Step 2 With valves closed, slowly open the water main to allow plumbing to pressurize and check for leaks.

Step 3 Open the MG-10 manifold bypass inlet valve and allow the MG-10 tank to pressurize and check for leaks.

Step 4 If the system is free of leaks, attach supplied mesh bag to the drain line in a suitable location where water can drain away harmlessly. (If needed add extension hose temporarily to the drain line to bring it to an outdoor location.)

Step 5 Press and hold the EXTRA CYCLE button for ten seconds as described on page 5. (When this regeneration cycle begins, water will begin to flow through drain line and into the mesh bag.)

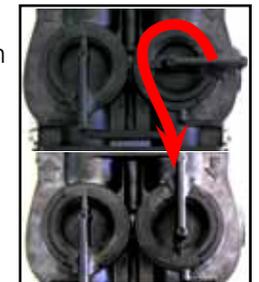
Step 6 Allow the MG-10 to run through a complete regeneration cycle (this will take approximately 25 minutes).

Step 7 At completion of regeneration cycle, examine the mesh bag. Note: The MG-10 is designed to release carbon and KDF fines into the water during regeneration. This typically produces up to 1 cup of a blackish/brownish/golden material in the mesh bag.

If more than this amount of granular media is found in the bag, please keep the bag and/or its contents and contact Support at 1-800-428-9419 immediately. It is possible the unit was damaged in shipment. A technical service agent will diagnose the MG-10's condition over the phone.

Step 8 If less than 1 cup of media is found in the mesh bag, repeat the regeneration procedure. After the second regeneration cycle is completed, again check for granular media in the mesh bag. If the mesh bag still has less than 1 cup of media after these two regeneration cycles, proceed to step 9.

Step 9 Set the LED display to current time of day. Next, open the manifold bypass OUTLET valve (see photo at right) on the MG-10 manifold and allow plumbing to fully pressurize. Check for leaks. Open faucets to cold water and flush for 4 minutes. Your system is now installed.



Control Valve Notes

3-Year Limited Warranty

In normal service operation, the display will alternate between time of day and days until next regeneration. When the display reaches the day and time programmed for regeneration the control valve will trigger the regeneration cycle automatically. The Default setting for the regeneration cycle is 3:00 AM every four days.

Control valve Operation During a Power Failure

When power returns, the control valve resumes normal operation from the point where it was interrupted. An indication that a power outage has occurred is a flashing display. If this is noticed, simply press any button and the display will stop flashing. Note: If the power was out for more than 48 hours, you may need to reset the time and should manually initiate regeneration by pressing the EXTRA CYCLE button for ten seconds. If you have a significant drop in water pressure and/or water from the faucet that tastes and/or appears unusual may be a sign that the control valve or filtration system is malfunctioning. Contact Customer Service at 1-800-428-9419 or via e-mail at support@naturallyfiltered.com.

Control Operation During Regeneration

During regeneration, the control valve displays a special Regeneration Display. This display shows the current regeneration step (the step the valve is advancing to or has reached), and the time remaining in that step. The step displayed flashes until the valve has completed driving to this regeneration step position. Once all regeneration steps are completed, the valve returns to Service and normal operation. For example: Pushing the EXTRA CYCLE button during a Regeneration Cycle will immediately advance the valve to the next regeneration cycle step position and resume normal step timing.

Problems Related to Water Pressure

First determine whether or not the problem is due to your plumbing supply, the control valve or the filtration system. Test your tap water supply by bypassing the MG-10 as follows: 1) close all faucets in your home, 2) move the MG-10 Bypass Manifold to bypass position (see page 3), and 3) compare & evaluate water pressure.

If the water pressure is the same, the problem is related to the water supply. Contact your city or installer. To put your system back in filtration mode, return the Bypass Manifold to normal service position (see page 3). If water pressure improves, or your problems are related to taste or appearance, bypass the MG-10 as described on page 3 and promptly contact either your distributor or Customer Service at 1-800-428-9419 or via e-mail at support@naturallyfiltered.com.

WARNING: Many insurance providers have recently modified their homeowner's coverage policy as they relate to leaks associated with a water treatment system and do not provide coverage in the event of a leak. This unit is engineered so that it may be installed outdoors where a plumbing leak would not cause damage to your home. While this unit is engineered to the highest standards, a risk of an unanticipated failure which could cause excessive flooding is always possible. If this unit is installed indoors where flooding related damage may occur, you are hereby notified that you are assuming all risk associated with any such damage. It is strongly recommended that you install an automatic leak detector and shut-off valve (available from www.watercop.com and other sources). Also, if the MG-10 is installed outdoors, it should be covered and must be protected from temperatures below 40° F. as per specifications chart on page one. If you live in an area that experiences a hard freeze, assure installation of appropriate insulation, heating devices, etc. to maintain temperatures as specified in this manual when the MG-10 is installed. Naturally Filtered, LLC, IS NOT LIABLE for any and all damage to any property or dwelling or any expense caused by or related to a leak in this or any products supplied by Naturally Filtered, LLC.

NATURALLY FILTERED, LLC warrants The Natural Home MG-10 for three (3) years from the date of purchase against all defects in materials and workmanship when installed by a licensed and certified plumber and used in compliance with this Installation Manual.

To allow NATURALLY FILTERED, LLC to record your ownership of this product, start your warranty coverage cycle, and send you any applicable product reports or announcements, please complete and return the Warranty Information Card below. You should also make a copy for your records. The Warranty Card must be returned within 30 days of purchase in order to validate warranty.

NATURALLY FILTERED, LLC will replace or repair any part which, in our opinion, is defective, if the filter, furnishings, and fixtures have not been subjected to tampering, alteration, or improper use or transportation after delivery and have not been repaired by anyone except NATURALLY FILTERED, LLC or an authorized representative. NATURALLY FILTERED, LLC's obligation does not include any costs related to shipping and transportation. NATURALLY FILTERED, LLC is not responsible for damage in transit, the customer should present claims for such damage to the carrier.

NATURALLY FILTERED, LLC makes no warranties, expressed or implied, including, without limitation, any warranties of fitness or merchantability except as expressly set forth above. NATURALLY FILTERED, LLC shall not be liable for any anticipated or lost profits, incidental damages, consequential damages, costs, time charges, or other losses incurred in connection with the purchase, installation, repair, or operation of the filter, and we do not authorize anyone to assume for NATURALLY FILTERED, LLC any liability in connection with the filter or any part thereof. NATURALLY FILTERED, LLC reserves the right to modify the design of our products at any time without notice.

This warranty covers the filter for residential use only and, in addition, does **NOT** apply to:

1. Failures resulting from use of water not suited to drinking, as outlined in current AWWA guidelines*;
2. Failures due to normal wear, accident, misuse, abuse, negligence, or contamination in source water supplies;
3. Damage due to failure to follow operating instructions and maintenance requirements or any damage, residential or commercial, resulting from MG-10 system or plumbing leaks. The MG-10 is designed for outdoor installation;
4. Products that are altered, modified, or serviced in a manner not authorized by NATURALLY FILTERED, LLC in writing;
5. Failure of goods due to use other than what was originally intended; and
6. Damage due to failure to follow published laws, regulations, and codes.

For servicing under this warranty, contact Naturally Filtered's Customer Service Department at 1-800-428-9419 and explain the problem in detail. Repair or replacement of the filter by NATURALLY FILTERED, LLC requires registration card submission and may require the return of the filter to NATURALLY FILTERED, LLC at your cost.

* For information regarding current AWWA standards, please visit — <http://www.awwa.org>

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