



INSTALLATION OPERATION MANUAL FILTER FOR REMOVAL OF IRON



**LEAD FREE
NSF/ANSI 61**



Model MB-100 and MB-200 are certified by IAPMO R&T against NSF/ANSI 42 for Iron and Hydrogen Sulfide reduction. They are also certified to NSF/ANSI/CAN 61 and 372 for material safety and lead free requirements.

BrassMaster and BrassMaster Plus Technical Video Library:
watercontrolinc.com/residential-technical-support/residential-technical-videos

BrassMaster technical videos demonstrate how to set up or remove the control module. Replacement control modules are available at:
watercontrolinc.com/residential-technical-support/

System Capabilities

Recommended Maximum Iron in Raw Water: MB-100 - 5 PPM (mg/L)
 Recommended Maximum Iron in Raw Water: MB-200 - 5 PPM (mg/L)
 Feed Water Temperature Range: 34 - 110°F
 Feed Water Pressure Range: 30 - 100 PSIG
 Service Flow Rate for MB-100: 10 GPM at 12 PSID
 Service Flow Rate for MB-200: 12 GPM at 15 PSID
 System Capacity for MB-100: 650 Gallons
 System Capacity for MB-200: 1,200 Gallons
 System Performance (Average Reductions): Iron - 96.75%, and Hydrogen Sulfide - 97.99%

Regeneration Water Usage

Media Regeneration Frequency: See page 5 for additional information.
 Model MB-100 88 gallons
 Model MB-200 130 gallons

Performance Data Sheet Reduction Claims

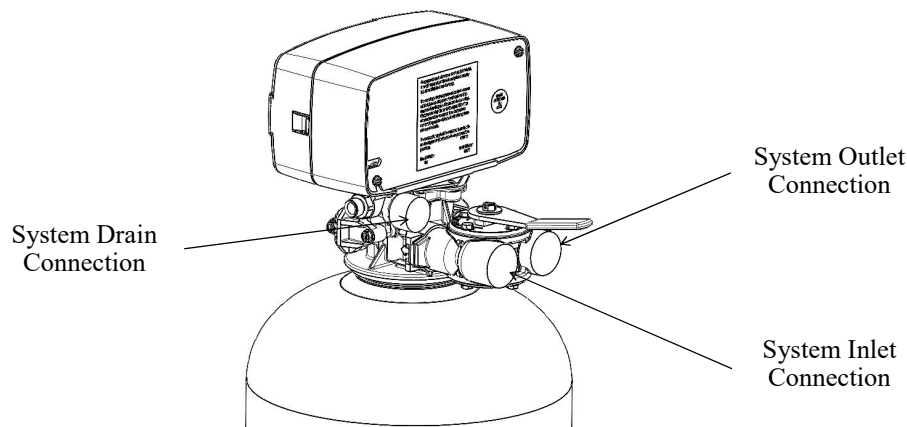
Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration
Hydrogen Sulfide	1.0 PPM (mg/L) ± 10%	0.05 PPM (mg/L)
Iron	3 to 5 PPM (mg/L)	0.3 PPM (mg/L)
1. Testing was performed under standard laboratory conditions, actual performance may vary. 2. This system has been tested according to NSF/ANSI 42 for reduction of the substances listed above. 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. 3. Systems conforms to NSF/ANSI 42 for the specific performance claims as verified and substantiated by test data.		

For additional information on performance test data contact:
 WCC (Water Control Corporation)
 7150 143rd Ave NW • Ramsey, MN 55303
 Phone: 1-866-405-1268 • Fax: 763-427-5665
www.watercontrolinc.com

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

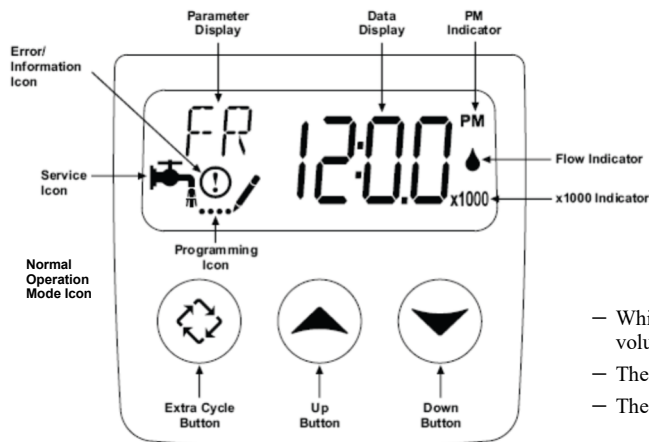
Installation Procedure

- 1. Identify installation location.** MEGAbite piping should originate shortly after incoming water supply shutoff, but just after any outside water lines, such that all water intended for interior use flows through MEGAbite first. *IMPORTANT: there must not be any filters installed upstream of the MEGAbite, or insufficient water pressures may affect operational performance.* This system and installation must comply with state and local laws and regulations. This system is to be supplied only with cold water.
- 2. Connect water piping.** This unit has been supplied with a manually operated bypass device which enables it to be isolated from the water service lines for maintenance and service, and also maintain the continuity of the water supply when the MEGAbite is disconnected. *IMPORTANT: Make all sweat-solder connections within 6 inches of the unit before applying threaded fittings to supplied bypass valve. Overheating may cause damage to valve.* Turn supplied bypass valve to “Bypass” position and make connections to household water lines. Leave unit in “Bypass” position until startup procedure.
- 3. Connect drain line.** Remove barbed or push-to-connect drain line fitting from parts bag. Apply thread seal tape to threads and turn into the female threaded opening on the back side of the control valve. Connect 5/8” drain line (supplied in parts bag) to barbed or push-to-connect end of drain line fitting and run to a nearby drain. *IMPORTANT: It is highly recommended that a hose clamp be used to secure tubing to barbed drain fitting (if applicable) to ensure tubing from being removed during elevated pressure situations.*
Be sure not to submerge drain line end into drain, as a 1-1/2” minimum air gap must be maintained to prevent potential backflow hazard. Firmly secure at drain, while maintaining a minimum 1-1/2” air gap (See detailed drawing on back side of piping diagram).
- 4. Connect to electrical power source.** Connect power cord to a separate 120v, 15 amp, ground fault interrupt (GFI) outlet.



Start-Up Procedure

Placing unit into service



- While in service, the Data Display alternates between time of day, volume remaining or days to regeneration.
- The Flow Indicator flashes when outlet flow is detected.
- The Faucet Icon flashes if a regeneration cycle has been queued.

ALTERNATE METHOD: IF THERE IS NO UTILITY SINK NEARBY

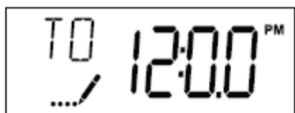
- **Pre-soak MEGAbite filter media:** Press and hold the extra cycle button for 5 or more seconds and release. “BW” should appear on screen. After approx. 30 seconds, a count down timer will appear on the screen. Press extra cycle button again to advance unit. “BR” should appear on screen. In approx. 30 seconds, a count down timer will appear on the screen. Again, press extra cycle button. “RR” will appear on screen. After approx. 30 seconds, a count down timer will appear on the screen. Slowly open bypass valve to “service” position. Allow “RR” cycle to run through completion. Note that water will begin to run out of drain line as filter unit becomes filled.
- **Flush the MEGAbite filter with water:** When the “RR” cycle has completed, wait approx.. 2 minutes for unit to advance back into service mode (faucet symbol will appear on screen). At this point, press and hold extra cycle button for 5 or more seconds and release to advance unit to “BW” mode. After approx. 30 seconds, water will begin to flow from drain line. Note that water may appear dirty/discolored for several minutes. This is normal as media fines are flushed out. Allow water to flow to drain until discoloration is gone (water is clear). Use extra cycle button to advance unit back into service mode (faucet symbol appears on screen). Note that you’ll need to pass through “BR” and “RR” cycles (with approx. 30 seconds between cycles for valve to advance).

RUN A COMPLETE REGENERATION

- **Regenerate the MEGAbite filter:** After flushing is complete, press and hold extra cycle button for 5 or more seconds and release. Allow the system to run a complete regeneration and return to service.

Start-Up Procedure (continued)

Setting current time of day



Setting Current Time / Day

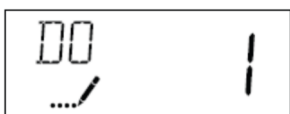
1. Press either the Up or Down buttons to adjust current time of day by one digit. Push and hold either up or down set button to adjust current time of day display by several digits.

User programming

User Programming Mode Options		
Abbreviation	Parameter	Description
DO	Day Override	The timer's day override setting
RT	Regeneration Time	The time of day that the system will regenerate.

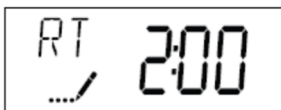
User Programming Mode Steps (Refer to chart above for user mode indications)

1. Press the Up and Down buttons for five seconds while valve is in service. Display will enter programming mode. (Note: Timer will discard any changes and exit programming mode if any button is not pressed for sixty seconds.)



Iron Content	Recommended Day Override
0-3	3 Days
4-5	2 Days
6+	1 Day

2. **Set Day Override:** This setting specifies the maximum number of days between regeneration cycles. System will regenerate regardless of usage if the days since last regeneration cycle equals the day override setting. This ensures regular regeneration periods. *The pre-programmed factory recommended setting is 2 days. Additional recommendations, based on iron levels, are shown in the table above.*



3. **Adjust Regeneration Time:** Press the Extra Cycle button to advance to next option. This setting determines the time of day that the unit will enter the regeneration cycle. The most common / default setting is 12:30 AM. **IMPORTANT:** *this regeneration time should be offset from any water softener's regeneration time by at least 2 hours to insure adequate regeneration pressure.*

Control programming is now complete. Press the extra cycle button, and the control will exit from the programming mode and resume normal operation.

MEGAbite Service

It is recommended to clean the injector, screen and inlet check valve every 6 months to ensure proper system operation.

From time-to-time, your iron filter's air injection screen can become plugged with lint and debris. This results in poor filter regeneration, which (in-turn) can lead to poor filtration performance. Another infrequent issue can be the malfunction of the water inlet check valve, due to fowling with dirt and debris.

Cleaning and unplugging a dirty air injector or an inlet check valve is an easy process. For a detailed instructional video, please visit: <https://watercontrolinc.com/residential-technical-videos/>

Maintenance / Warranty Information



All BrassMaster and BrassMaster Plus water softeners / filters feature the Assured Performance Modular (APM) design. If you experience a failure of any valve component, the brass module can be easily removed and replaced.

Reference the BrassMaster and BrassMaster Plus Technical Video Library on our website (link is provided below) for detailed steps on how to remove the module. The required (downloadable) form to have your module replaced is also located at this site. Please contact your dealer or WCC for module support.

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<https://watercontrolinc.com/residential-technical-support/residential-technical-videos>
BrassMaster technical videos demonstrate how to set up or remove the control module.
Replacement control modules are available at <https://watercontrolinc.com/residential-technical-support/>

For factory module support contact:
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OFFICIAL WARRANTY

Water Control Corporation

BRASSMASTER PLUS SERIES

WATER SOFTENERS / FILTERS

Water Control Corporation warrants the control valve to be free of manufacturer's defects for a period of 5 (five) years from the date of installation, and the fiberglass reinforced mineral tank, and plastic brine tank (where applicable), to be free from leaking due to manufacturer's defects for a period of 5 (five) years. We will, at our discretion, repair or replace defective products. This warranty does not include any costs associated with removal of defective products, or installation of replacement products. All replacement parts will be provided FOB Ramsey, MN. This warranty is transferable.

DISCLAIMER OF IMPLIED WARRANTIES

Water Control Corporation makes no warranties except those expressly stated in this document. To the extent permitted by the laws of the applicable state, **ALL WARRANTIES CONTAINED IN THIS DOCUMENT ARE EXPRESSLY IN LIEU OF, AND WATER CONTROL CORPORATION EXPRESSLY DISCLAIMS, ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

WHAT IS NOT COVERED BY THESE WARRANTIES

1. Conditions and damages resulting from any of the following:
 - Wear caused or malfunction by unfavorable water conditions
 - Any repair, modification, alteration, or adjustment not authorized by the manufacturer or an authorized servicer
 - Misuse, abuse, accidents, or unreasonable use
 - Improper setting of any control
 - Incorrect electric current, voltage, or supply
 - Failure to test water at recommended intervals
 - Improper installation.
2. Warranties are void if the original serial numbers have been removed, altered, or cannot be readily determined.
3. The cost of service or service call to:
 - Correct installation errors
 - Instruct the user on proper use of the product
 - Transport the product to the servicer
4. Any costs associated with removal of defective products, or installation of replacement products.
5. Consequential, special, or incidental damages sustained by any person as a result of the breach of these warranties. Some states do not allow the exclusion or limitation of consequential or incidental damages, so the above exclusion may not apply to you.

