

BRASSMASTER



Water Softener Installation / Operation Manual



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

Instructions for Use

1. **Verify with boiler manufacturer that softened water will not affect boiler operation or warranty. Do not fill boiler with softened water unless approved by boiler manufacturer!**
2. Following instructions on bottle, use test strip to estimate supply water hardness level. Record hardness level on “Capacity Remaining Chart.”
3. Connect ¾” garden hoses to softener inlet and outlet (pay close attention to “inlet” and “outlet” markings on softener head).
4. Connect “inlet” hose to supply water source. Connect “outlet” hose to boiler fill port or to glycol mixing system (note: do not run glycol through softener).
5. Turn on water supply and fill boiler or glycol mixing system. Take note of how many minutes water flows through softener. Record total number of minutes on “Capacity Remaining Chart.”
6. Using “Capacity Remaining Chart,” multiply hardness level X number of minutes used X 2 (X 3.5 for STS-600-1) to calculate total grains capacity consumed (refer to chart examples for details).
7. Use final (right-hand) column of “Capacity Remaining Chart” to record running total of capacity consumed. When running total meets or exceeds 10,500 (30,000 for STS-600-1) regenerate Boiler Fill Softener (via field supplied brine solution) or contact your local BrassMaster distributor for replacement media.

Capacity Remaining Chart

Date	Hardness Level (from test strip)	X	# of Minutes Used	X 2 (or X 3.5)	= Grains of Capacity Consumed	Capacity Consumed Running Total*
<i>Example</i>	<i>14</i>	X	<i>10</i>	X 2	280	
<i>Example</i>	<i>20</i>	X	<i>10</i>	X 2	400	<i>680 (example)</i>
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		
		X		X 2		

*When "Capacity Consumed Running Total" equals 10,500 grains (30,000 grains for STS-600-1) or more, unit is exhausted!

Official Warranty

Water Control Corporation

BoilerFill Series Water Softeners

Limited Warranty

Water Control Corporation warrants the control valve to be free of manufacturers defects for a period of 3 (three) years from the date of installation, and the fiberglass reinforced mineral tank, and plastic brine tank, 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 by unfavorable water conditions
 - mproper installation, delivery, or maintenance
 - 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
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.