



BrassMaster and BrassMaster Plus+

Water Softener Installation and Operation Manual



B32, BT32, BT48, and BT60 are certified by IAPMO R&T against NSF/ANSI 44, NSF/ANSI/CAN 61, and NSF/ANSI/CAN 372

Performance Data Sheet

These units are certified by IAPMO R&T to NSF-44 standards, including optional salt and water efficiency standards

BrassMaster and BrassMaster Plus Technical Video Library

BrassMaster technical videos demonstrate how to troubleshoot and service your system. Technical videos are available at: watercontrolinc.com/residential-resources/technical-video-library

Replacement control modules are available at: watercontrolinc.com/residential-resources





Over 50 Years of Water Treatment Expertise

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Specifications

Feedwater			
Minimum/Maximum Operating Pressures		20 psi (138 kPa or 1.4 bar) - 100 psi (862 kPa or 8.6 bar)	
Minimum/Maximum Operating Temperatures		40°F (4°C) - 110°F (43°C)	
Power			
Supply Voltage / Frequency		120 VAC / 60 Hz	
Output Voltage / Current		24 VAC / 400 mA	
Installation			
Location		Indoors (Protect from direct sunlight)	
Minimum ambient temperature		34°F	
Maximum ambient temperature		122°F	
Salt Capacity			
Cabinet models		200 lbs	
Two-Tank models		300 lbs	
System Capacities			
BrassMaster Series		BrassMaster Plus+ Series	
Model	Cation Exchange Resin (cuft)	Model	Cation Exchange Resin (cuft)
B32	0.8	BP27	0.87
BT32	0.8	BP35	1.10
BT48	1.3	BPT27	0.87
BT60	2.0	BPT35	1.1
		BPT48	1.3
		BPT60	2.0

For help with installation or troubleshooting, please contact Water Control Corporation.

Water Control Tech Services Department:
Toll Free: 1-866-405-1268
Local: 763-427-9638
Fax: 763-427-5665
Email: techsupport@watercontrolinc.com

No user serviceable parts are on the PC board, the motor, or the power adapter. The means of disconnection from the main power supply is by unplugging the power adapter from the wall.

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 for water softener.** Piping should be such that all household water, with the exception of outside hydrants, flows through softener. A hard water line may be run to a kitchen tap if so desired. This system and installation must comply with state and local laws and regulations.
2. **Connect water piping.** This unit has been supplied with a manually operated bypass device which enables the softener to be isolated from the water service lines for maintenance and service, and also maintain the continuity of the water supply when the softener is disconnected.

IMPORTANT: It is highly recommended that a hose clamp be used to secure tubing to any barbed drain fittings to ensure tubing from being removed during elevated pressure situations.

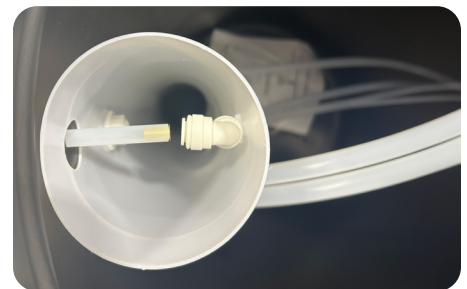
3. **Connect drain line.** Remove barbed or push-to-connect drain line fitting from parts bag. Apply thread seal tape to threads, and turn into the female threaded opening on the back side of the control valve.

IMPORTANT: Make all sweat-solder connections within 6 inches of softener 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.

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.

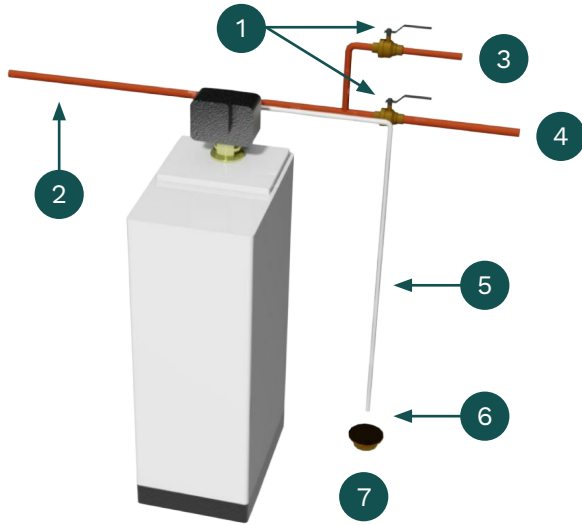
Be sure not to submerge drain line end into drain, as a 1 1/2" minimum air gap must be maintained to prevent potential backflow hazard. Firmly secure at drain, while maintaining a minimum 1 1/2" air gap (See detailed drawing supplied with piping diagram).

4. **Connect brine line (two-tank models only).** Connect 3/8" brine line (supplied in parts bag) from the control valve to the brine tank with the screen and a brass insert at the control valve and a brass insert at the brine tank, as shown below. Tighten the fitting on the control valve with a wrench and insert tubing into the quick connect fitting in the brinewell.



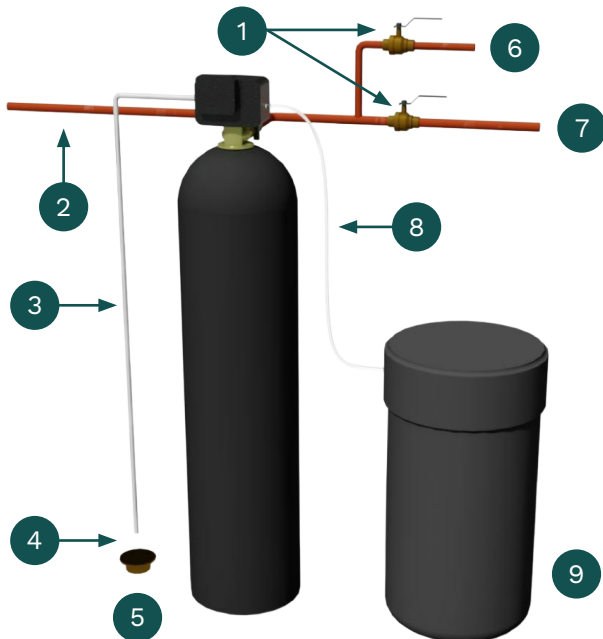
5. **Install brine tank overflow line.** Install overflow fitting (supplied in parts bag) into hole in side of brine tank. An owner-supplied overflow line should then be attached and run to a nearby drain. *Failure to run overflow line could cause flooding and water damage should the brine tank overflow.*
6. **Connect to electrical power source.** Connect power cord to a separate 120v, 15 amp, ground fault interrupt (GFI) outlet.

Piping Diagrams



Cabinet Models

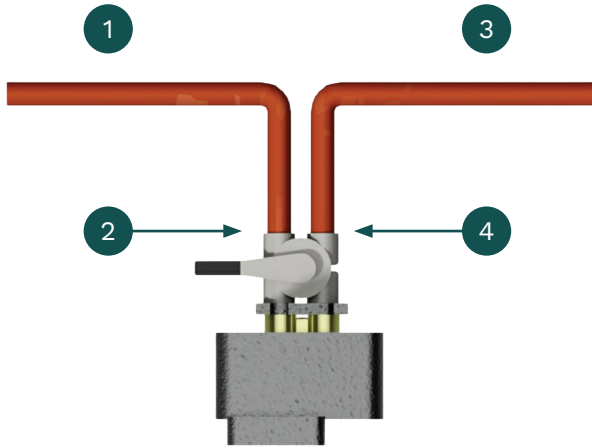
1. Shut-off Valves
2. Soft Water to Household
3. To Outside Sillcocks
4. Main Water Supply
5. Drain Line (Barbed or push-to-connect connection on softener valve)
6. Air Gap (Leave at least 1 ½" above drain)
7. Floor Drain



Two-Tank Models

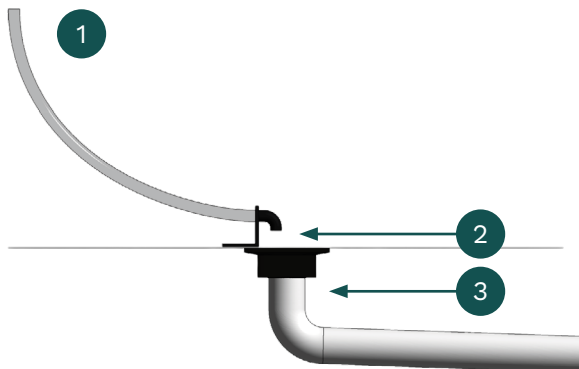
1. Shut-off Valves
2. Soft Water to Household
3. Drain Line (Barbed or push-to-connect connection on softener valve)
4. Air Gap (Leave at least 1 ½" above drain)
5. Floor Drain
6. To Outside Sillcocks
7. Main Water Supply
8. Brine Line (Compression connection)
9. Brine Tank

Piping Diagrams



Bypass Connection (Top View)

1. Soft Water to Household
2. To ↑ Connection on Bypass Valve
3. Main Water Supply
4. To ↓ Connection on Bypass Valve



Drain Connection

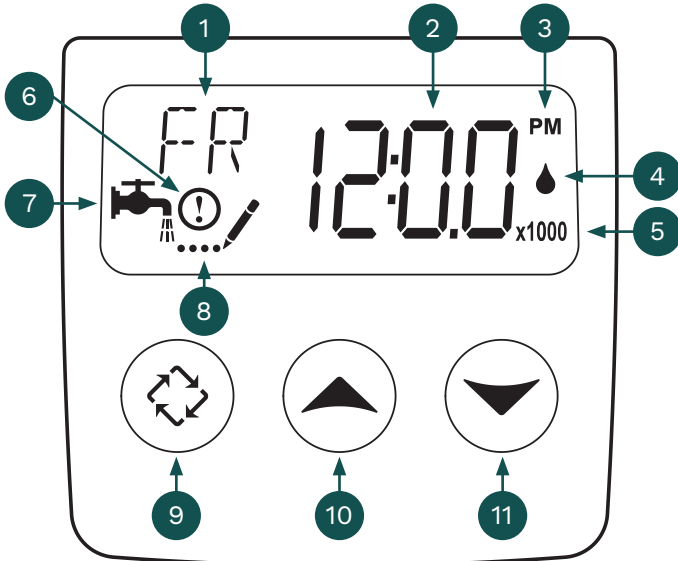
1. Drain Line
2. Air Gap (Leave at least 1 ½" above drain)
3. Floor Drain

Note:

1. Secure the drain line to the floor drain and maintain a minimum of 1 ½" air gap
2. The supplied drain line may not meet local codes for drain line piping. Verify local codes with local code officials prior to installation.

Start-Up Procedure

Placing Unit Into Service



The diagram shows a rectangular control panel. At the top, there are three callouts: 1 points to the leftmost section of the display, 2 points to the large digital display, and 3 points to the 'PM' indicator. Below the display, there are three callouts: 4 points to a small icon on the right, 5 points to the 'x1000' indicator, and 6 points to an icon on the left. Below the display area, there are three circular buttons. Callout 7 points to the leftmost button, callout 8 points to the middle button, and callout 9 points to the rightmost button. Below these buttons, there are three more callouts: 10 points to the leftmost button, 11 points to the middle button, and 11 points to the rightmost button.

Timer Features

1. Parameter Display
2. Data Display
3. PM Indicator
4. Flow Indicator
5. x1000 Indicator
6. Error/Information Icon
7. Normal Operation Mode Icon
8. Programming Icon
9. Extra Cycle Button
10. Up Button
11. Down Button

- ◆ 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.

Fill the mineral tank with water:

1. Keep softener in BYPASS
2. Press and hold the extra cycle button for 5 seconds, display will indicate **BW**, Backwash cycle.
3. Push extra cycle button once and let go, display will indicate **BD**, Brine Draw cycle.
4. Push extra cycle button again and let go, display will indicate **RR**, Rapid Rinse cycle.
5. Slowly open bypass valve and allow water to flow for 2-4 minutes. This will allow the media in the tank to become saturated.
6. Open bypass valve to the service position.
7. Push extra cycle button once and let go, display will indicate **BF**, Brine Fill cycle.
8. Allow timer to fill the brine tank for the entire time on the display. The unit will advance to the service position when completed.
9. Push extra cycle button for 5 seconds, this will start a manual regeneration from start-to-finish. This will take approximately two hours.
10. Start-up procedure is now complete. The unit is now pressurized with water and ready for service.

Setting the Current Time of Day

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.



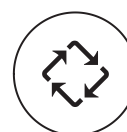
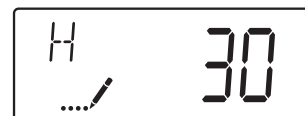
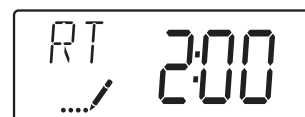
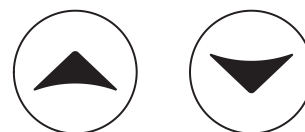
User Programming

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 (meter delayed, timeclock, and day-of-week systems)
H	Feed Water Hardness	The hardness of the inlet water— used to calculate system capacity for metered systems
RC	Reserve Capacity	The fixed reserve capacity

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 no button is pressed for sixty seconds.)
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. In areas of heavy iron water conditions, this setting should not exceed 5 days.
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 2:00 AM.
4. **Set Water Hardness:** Press the Extra Cycle button to advance to next option. Set the hardness of the incoming water. For each PPM of iron or manganese, add 4 GPG to this setting. This will determine the amount of water usage allowed between regeneration cycles.
5. **Set Fixed Reserve Capacity:** Press the Extra Cycle button to advance to next option. Set the Fixed reserve capacity for the household. This is the amount of water needed in reserve to reach the delayed regeneration time. Standard setting is 50 gallons for each person in the household.

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



Sanitization of Unit

After complete installation of unit

1. Dilute 1/2 cup of unscented laundry bleach in 3 gallons of water
2. Add to brine tank
3. Initiate a manual regeneration by depressing the extra cycle button
4. Allow the unit to complete its cycle and advance to the “Service” position
5. The unit is now sanitized and ready for operation.

Softener Operation

As water enters the softener, it passes over a resin bed in a special tank. The resin consists of tiny beads of a plastic called styrene. These beads attract and hold sodium ions and exchange the sodium for hardness ions when encountered. Over time, the resin becomes saturated with hardness ions and no longer removes hardness materials. The softener goes into a “regeneration” to flush hardness materials to the drain and refresh the resin with sodium. Regeneration is typically programmed to take place in the middle of the night when little or no water is in use.

Regeneration consists of four cycles:

1. Backwash Position

- ◆ **Backwash** is a rapid upward flow of water that loosens the resin bed and flushes iron particles, dirt and sediments filtered in the bed out to the drain.

2. Brine Draw / Slow Rinse Position

- ◆ **Brine Draw** is the process in which brine is drawn out of the brine cabinet and passed through the resin in a downward direction. This rinses the resin and forces sodium ions to replace the hardness ions accumulated during service.
- ◆ **Slow Rinse:** After brine is completely removed from the brine cabinet into the resin tank the brine valve closes. Water replaces any remaining brine from the resin, flushing hardness ions removed from the resin to drain.

3. Fast Rinse Position

- ◆ **Fast Rinse** is a fast flow of water down through the resin tank after brining. This flushes all remaining brine from the tank and packs the resin bed for softening efficiency.

4. Brine Fill

- ◆ Brine is water saturated with large amounts of a salt (sodium chloride). During **Brine Fill**, water flows into the salt storage area after each regeneration and dissolves salt. During the regeneration process, hardness ions on the resin beads are replaced or exchanged for sodium ions from the brine solution.

5. Service

- ◆ When the softener is in **Service Mode**, water is flowing through the system and hardness minerals are being removed.

Maintenance

Salt Maintenance

You must keep salt in the tank. The salt tank operates best when the salt level is below half full. If the tank is filled more than that the salt pellets may “bridge”. The salt pellets wedge against each other and do not fall into the water at the bottom. Bridging will eventually provide no salt to make brine. The softener will recharge but not recondition the media. A salt bridge can be broken up using a broom handle or similar rod. Carefully pound it into the salt and the pellets will collapse. After loosening the salt pellets wait 2 hours and start a regeneration. A second recharge may be needed to fully recondition the media. High-quality pellet salt is usually the best option. Never use rock salt or snow melting salt in your softener, as it contains dirt and minerals. Pure solar salt crystals may be used if water chemistry causes salt pellets to turn into a hard-packed “mush” at the bottom of the tank.

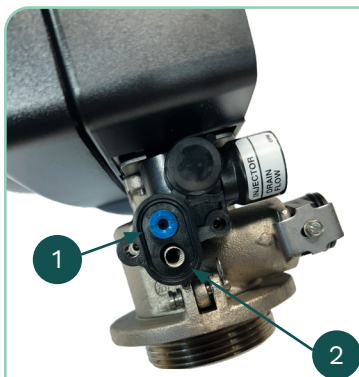
NOTE: Salt bridges are typically caused by high humidity or poor quality salt. In humid areas it is best to fill with less salt, more often. Use only nugget, pellet or coarse solar salt with a purity of 99.5% or higher. DO NOT use rock, block, granulated, or ice cream salts.

Cleaning the Brine Injector

It is recommended to clean the injector and injector screen annually to ensure proper system operation.

From time-to-time, a softener’s brine water injection assembly can become plugged with dirt and debris. This results in poor softener regeneration, which (in-turn) can lead to poor softening performance. Plugging of a brine injector can also cause your brine tank to fill up with water, and eventually overflow.

Cleaning and unplugging a dirty brine injector is an easy process. For a detailed instructional video, please visit WCC’s technical video library.



Brine Injector

1. Injector
2. Screen



Assembly

1. Throat
2. Nozzle
3. Spacer
4. Cover
5. Screw
6. Screen

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Troubleshooting

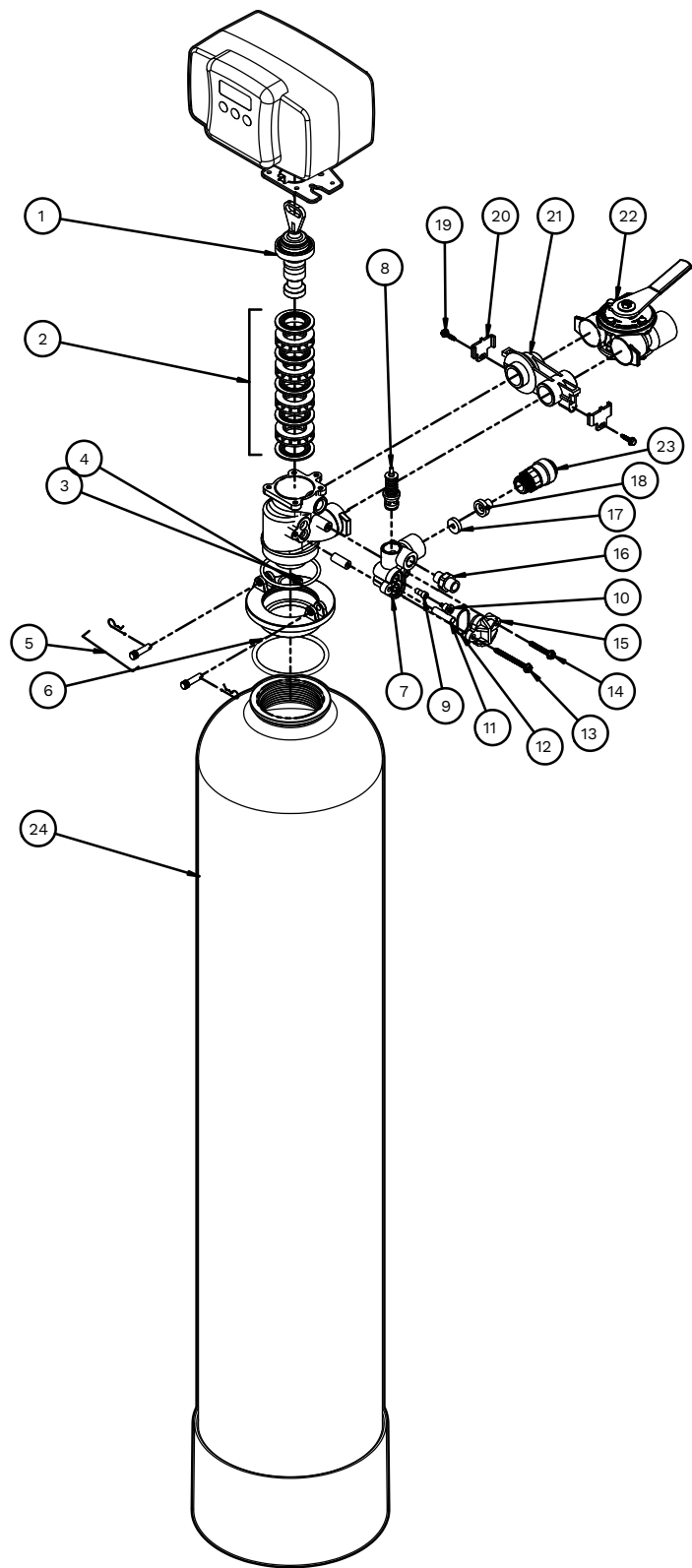
1. Softener Fails To Regenerate.	A. Electrical service to unit has been interrupted.	A. Assure permanent electrical service (check fuse, plug, pull chain or switch).
	B. Timer programming bad (improper programming).	B. Check programming and reset as needed.
2. Softener Delivers Hard Water.	A. By-pass valve is open.	A. Close by-pass valve.
	B. No salt in brine tank.	B. Add salt to brine tank and maintain salt level above water level.
	C. Injector or screen plugged.	C. Clean or replace injector and screen.
	D. Insufficient water flowing into brine tank.	D. Check brine tank fill time and clean brine line if plugged.
	E. Hot water tank contains hard water.	E. Repeated flushings of the hot water tank are required.
	F. Flow meter jammed.	F. Check flow indicator light for flow. Remove obstruction from flow meter.
	G. Flow meter cable disconnected or not plugged into meter.	G. Check meter cable connection to timer and meter.
	H. Improper programming.	H. Reprogram the control to the proper regeneration type, inlet water hardness, capacity or flow meter size.
	I. Plugged brine line or air check.	I. Remove and clean any sediment from brine tank and brine valve assembly.
	J. Salt bridge has formed.	J. Refer to Breaking a Salt Bridge section in manual.
	K. No water in brine tank.	K. Ensure safety float is not stuck.
	L. Unit is plumbed backwards.	L. Check that the unit is plumbed correctly.
	M. Water hardness has increased or is set incorrectly.	M. Retest hardness and change settings.
	N. Water pressure is too low.	N. Line pressure must be at least 20 PSI.
3. Unit Uses Too Much Salt.	A. Improper salt setting.	A. Check salt usage and salt setting.
	B. Excessive water in brine tank.	B. See problem No. 7.
	C. Improper programming.	C. Check programming and reset as needed.
4. Loss of Water Pressure.	A. Iron buildup in line to water conditioner.	A. Clean line to water conditioner.
	B. Iron buildup in water conditioner.	B. Clean control and add resin cleaner to resin bed. Increase frequency of regeneration.

Troubleshooting

5. Loss of Resin Through Drain Line.	A. Air in water system.	A. Assure that well system has proper air eliminator control and check for dry well condition.
	B. Drain line flow control is too large.	B. Ensure drain line flow control is sized correctly. (Contact WCC)
6. Iron in Conditioned Water.	A. Fouled resin bed.	A. Check backwash, brine draw and brine tank fill. Increase frequency of regeneration. Increase backwash time.
	B. Iron content exceeds recommended parameters.	B. Add iron removal filter or system.
7. Excessive Water in Brine Tank.	A. Plugged drain line flow control.	A. Clean flow control.
	B. Brine valve failure.	B. Clean brine valve.
	C. Improper programming.	C. Check programming and reset as needed.
8. Salt Water in Service Line.	A. Plugged injector system.	A. Clean injector and replace screen.
	B. Improper programming.	B. Check programming and reset as needed.
	C. Foreign material in brine	C. Clean or replace brine valve.
	D. Foreign material in brine line	D. Clean brine line flow control.
	E. Low water pressure.	E. Raise water pressure.
9. Softener Fails to Draw Brine.	A. Drain line flow control is plugged.	A. Clean drain line flow control.
	B. Injector is plugged.	B. Clean or replace injectors.
	C. Improper programming.	C. Check programming and reset as needed.
	D. Line pressure is too low.	D. Increase line pressure (line pressure must be at least 20 PSI at all times.)
10. Drain Flows Continuously.	A. Foreign material in control.	A. Remove piston assembly and inspect bore, remove foreign material & check control in various ports. WCC recommends contacting a qualified plumber/installer.
12. Loss of capacity.	A. Increased raw water hardness	A. Reset unit to the new capacity.
	B. Brine concentration and/or quantity.	B. Keep brine tank full of salt at all times. Clean it yearly. Salt may be bridged. If using a salt grid plate ensure refill water is over it.
	C. Resin fouling.	C. Call WCC, find out how to confirm it, clean the resin and prevent.
	D. Poor distribution, channeling (uneven bed surface).	D. Call WCC. Check distributors and backwash flow.

System Replacement Parts Diagram

Please contact WCC or your local dealer for parts availability.



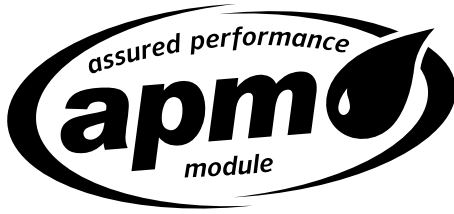
BrassMaster Replacement Parts

Number	Description	System Model Number			
		B32	BT32	BT48	BT60
1	Piston Assembly	3-190-90252			
2	Seal/Spacer Kit	3-190-90270			
3	Distributor O-Ring	3-190-01008			
4	Valve Body O-Ring	3-190-90191			
5	Valve Pin and Cotter Pin	3-140-72006			
6	Valve Base O-Ring	3-160-99001			
7	Injector Body	3-190-90160			
8	Brine Valve Assembly	3-190-02008			
9	Injector Throat	3-190-90050	3-190-90050	3-190-90053	3-190-90055
10	Injector Nozzle	3-190-90043	3-190-90043	3-190-90046	3-190-90048
11	Injector Screen	3-190-90142			
12	Injector Cover O-Ring	3-190-90165			
13	Injector Cover Bolt - Long	3-250-02023			
14	Injector Cover Bolt - Short	3-250-02024			
15	Injector Cover	3-190-90420			
16	Brine Line Flow Control Assembly	3-190-90406	3-190-90406	3-190-90406	3-190-99407
17	Drain Line Flow Control	3-190-90091	3-190-90091	3-190-90059	3-190-90062
18	Drain Line Flow Control Retainer	3-190-90161			
19	Clip Screw	3-250-02000			
20	Clip	3-190-90216			
21	Flow Meter	3-190-90298			
22	Bypass Valve Assembly	3-190-90237 - 3/4 Inch NPTF Connections, 3-190-90238 - 1 Inch NPTF Connections			
23	Drain Line Fitting	3-070-06019			
24	Replacement Tank Assembly	2-010-30002	2-010-30003	2-010-30004	2-010-30005
Not Shown	Flow Meter Cable	3-190-90217			

BrassMaster Plus+ Replacement Parts

Number	Description	System Model Number					
		BP27	BP35	BPT27	BPT35	BPT48	BPT60
1	Piston Assembly	3-190-90252					
2	Seal/Spacer Kit	3-190-90270					
3	Distributor O-Ring	3-190-90148					
4	Valve Body O-Ring	3-190-90191					
5	Valve Pin and Cotter Pin	3-140-72006					
6	Valve Base O-Ring	3-160-99001					
7	Injector Body	3-190-90160					
8	Brine Valve Assembly	3-190-02008					
9	Injector Throat	3-190-90050	3-190-90053	3-190-90050	3-190-90053	3-190-90053	3-190-90055
10	Injector Nozzle	3-190-90043	3-190-90046	3-190-90043	3-190-90046	3-190-90046	3-190-90048
11	Injector Screen	3-190-90142					
12	Injector Cover O-Ring	3-190-90165					
13	Injector Cover Bolt - Long	3-250-02023					
14	Injector Cover Bolt - Short	3-250-02024					
15	Injector Cover	3-190-90420					
16	Brine Line Flow Control Assembly	3-190-90406	3-190-90406	3-190-90406	3-190-90406	3-190-90406	3-190-99407
17	Drain Line Flow Control	3-190-90058	3-190-90060	3-190-90058	3-190-90061	3-190-90060	3-190-90063
18	Drain Line Flow Control Retainer	3-190-90161					
19	Clip Screw	3-250-02000					
20	Clip	3-190-90216					
21	Flow Meter	3-190-90298					
22	Bypass Valve Assembly	3-190-90237 - 3/4 Inch NPTF Connections, 3-190-90238 - 1 Inch NPTF Connections					
23	Drain Line Fitting	3-070-06019					
24	Replacement Tank Assembly	2-010-30006	2-010-30007	2-010-30008	2-010-30000	2-010-30009	2-010-30010
Not Shown	Flow Meter Cable	3-190-90217					

Warranty Information



Nearly all serviceable parts lie within the removable/replaceable APM™ module. This eliminates costly and time consuming field repairs.

All BrassMaster and BrassMaster Plus water softeners 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 Water Control Corporation for module support.



BrassMaster and BrassMaster Plus Technical Video Library

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Replacement control modules are available at: watercontrolinc.com/residential-resources



For factory module support contact:

Water Control Corporation
7150 143rd Ave NW • Ramsey, MN 55303
Phone: 1-866-405-1268 • Fax: 763-427-5665
www.watercontrolinc.com

WATER CONTROL CORPORATION

Official Warranty

BrassMaster 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
 - ◆ Improper 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.



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Ramsey, MN 55303

www.watercontrolinc.com
1-866-405-1268

WATER CONTROL CORPORATION

Official Warranty

BrassMaster Plus+ Series Water Softeners



LIMITED WARRANTY

Water Control Corporation warrants the control valve to be free of manufacturers defects for a period of 5 (five) years from the date of installation, and the fiberglass reinforced mineral tank, and plastic brine tank, to be free from leaking due to manufacturers 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
 - ◆ Improper 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
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