

# No-SALT CONDITIONER.<sup>®</sup>



NS1100 / NS2200

**Installation Guide & Owner's Manual**

# Installation Tips

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## **Contents**

- 1 Control Panel
- 1 Spool of Signal Wire
- 2 Mounting Screws & Drywall Inserts
- 2 Wire Clips
- 3 Wire Ties

## **Tools you will need**

- Phillips Head Screwdriver
- Pliers
- Wire Cutters or Scissors
- Tape Measure
- Marker

## **Before You Begin Installing**

### **Pipe**

The EasyWater No-Salt Conditioner can be installed on a vertical or horizontal copper, PVC or PEX pipe.

### **Finding Your Main Cold Water Pipe**

The water shutoff valve is on the main cold water pipe. Install the EasyWater No-Salt Conditioner on this pipe as close to where it comes into the house as possible. This will ensure that the outside spigots and kitchen are being treated.

### **If You Cannot Access Cold Water Pipe Before it Splits**

Follow the main cold water pipe back as far as possible from the water heater and install the EasyWater No-Salt Conditioner there. By doing this, all of the home's water may not be treated; in some cases only the hot water will be treated. The hot water is the most important water to treat.

### **Well Installation**

For customers on a private well, the best place to install the EasyWater No-Salt Conditioner is after the well's pressure tank. If that is not possible, the EasyWater No-Salt Conditioner can be installed prior to the pressure tank.

### **Softener Loop**

The EasyWater No-Salt Conditioner can be installed on a softener loop. Installing on a softener loop gives treatment to all of the water that a softener would treat. Water to the kitchen faucet and outside spigots may not be treated when the EasyWater No-Salt Conditioner is installed this way.

### **Installing with other Water Treatment Equipment**

Refer to the EasyWater product sequence of installation guide for appropriate installation location. If you have any questions please contact EasyWater Technical Support at (888) 766-7258.

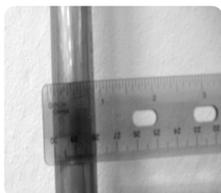
### **Outside Installation**

The control panel on all EasyWater No-Salt Conditioner units is weather resistant and can be installed outside. If the system must be installed outside or the wrap must be buried, both the wrap and the wire clips must be covered with electrical tape to protect them from the elements.

# Installation Tips

## Find the Pipe Size

To find the size of the pipe that will be wrapped, place a ruler in front of the pipe and measure the outside diameter. Use table 1 to determine the size of the pipe.



Copper or PEX		PVC	
Approx. Outside Diameter	Pipe Size	Approx. Outside Diameter	Pipe Size
5/8"	1/2"	7/8"	1/2"
7/8"	3/4"	1 1/16"	3/4"
1 1/8"	1"	1 5/16"	1"
1 3/8"	1 1/4"	1 5/8"	1 1/4"
1 5/8"	1 1/2"	2"	1 1/2"
2 1/8"	2"	2 3/8"	2"

Table 1

## A Tight Wrap is VERY Important

It is extremely important to the effectiveness of your EasyWater No-Salt Conditioner that the signal wire be wrapped correctly. If there are any gaps between the wraps, your EasyWater No-Salt Conditioner will not work to its full capacity. The following photos are an example of a good wrap and a bad wrap on copper piping.

### GOOD WRAP



### BAD WRAP



## Wrapping a Bend or Elbow

The best place to install the EasyWater No-Salt Conditioner is on a straight section of pipe. On occasion, this is not possible and an elbow may be in the way. In this case, bridge the elbow as shown in the photo (right). To do this, wrap right up to the elbow, stretching the wire over the elbow and continuing to wrap on the other side of the elbow.



# Installation Instructions - PVC or PEX Pipe

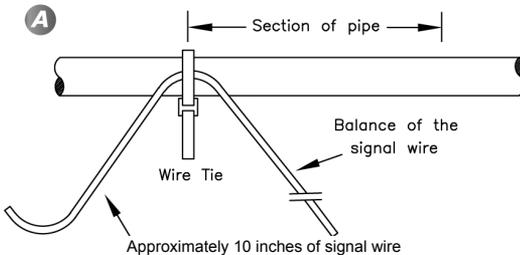
## Location of System

Signal wire should be wrapped around the main cold water pipe before the line splits off. The No-Salt Conditioner 1100 has a 7 foot connecting cable and a 7 foot power cord. The No-Salt Conditioner 2200 has a 15 foot connecting cable and a 7 foot power cord. Access to a standard 110v outlet is required. An extension cord may be used if necessary.

**Determine the Pipe Size** To confirm your home's pipe size, see Table 1 on page 3.

## Wrapping the Signal Wire

1. Locate the appropriate length of your main cold water pipe according to the table and wipe it clean. *If you do not have enough available pipe exposed on your main cold water pipe to meet the maximum wrap length listed in Table 2 please contact our Customer Support Team for custom installation instructions.*
2. Measure and mark the exact wrap length necessary on the pipe with a marker.
3. Lay the signal wire at one end of the measured section of pipe, parallel to the pipe. Wrap a wire tie around the pipe and wire leaving 10 inches of wire sticking out. Pull the wire tie tight. (Figure A)



4. Wrap the signal wire tightly around the pipe with each wrap touching the previous wrap. Continue to wrap to the marked length.
5. Wrap a wire tie around the pipe and the wire and pull the wire tie tight. (Figure B) **Do not wrap more than the amount specified.** Wrapping more than the amount specified will cause an overload. Cut off all but 10 inches of remaining signal wire and dispose of the extra.

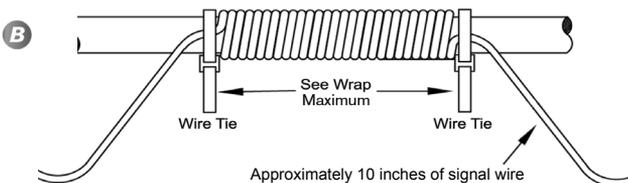


Table 2

1100 Wrap Maximum PVC or PEX Pipe	
Pipe Size	Wrap Layers
½"	Single wrap 13"
¾"	Single wrap 11"
1"	Single wrap 9"

2200 Wrap Maximum PVC or PEX Pipe	
Pipe Size	Wrap Layers
½"	Single wrap 18"
¾"	Single wrap 15"
1"	Single wrap 11"
1 ¼"	Single wrap 7"

# Installation Instructions - Copper Pipe

## Location of System

Signal wire should be wrapped around the main cold water pipe before the line splits off. The No-Salt Conditioner 1100 has a 7 foot connecting cable and a 7 foot power cord. The No-Salt Conditioner 2200 has a 15 foot connecting cable and a 7 foot power cord. Access to a standard 110v outlet is required. An extension cord may be used if necessary.

**Determine the Pipe Size** To confirm your home's pipe size, see Table 1 on page 3.

## Mounting The Control Panel

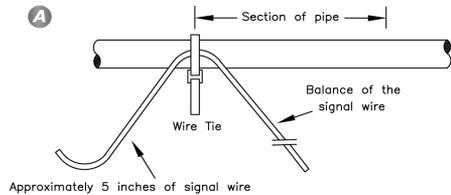
Table 3

1100 Wrap Maximum Copper Pipe	
Pipe Size	Wrap Layers
½"	Double wrap 14"
¾"	Double wrap 11"
1"	Double wrap 9"

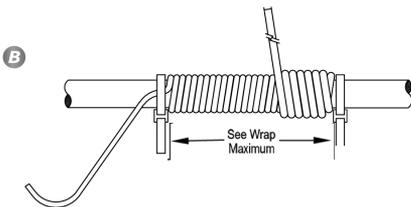
2200 Wrap Maximum Copper Pipe	
Pipe Size	Wrap Layers
½"	Double wrap 18"
¾"	Double wrap 16"
1"	Double wrap 13"
1 ¼"	Double wrap 11"

## Wrapping the Signal Wire

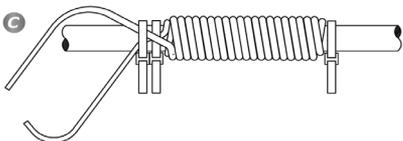
1. Locate the appropriate length of your main cold water pipe according to the table and wipe it clean. *If you do not have enough available pipe exposed on your main cold water pipe to meet the maximum wrap length listed in Table 3 please contact our Customer Support Team for custom installation instructions.*
2. Measure and mark the exact wrap length necessary on the pipe with a marker.
3. Lay the signal wire at one end of the measured section of pipe, parallel to the pipe. Wrap a wire tie around the pipe and wire leaving 5 inches of wire sticking out. Pull the wire tie tight. (Figure A)



4. Wrap the signal wire tightly around the pipe with each wire touching the previous wrap. Continue to wrap to the marked length.



5. Wrap a second wire tie around the pipe and wire at the end of the first layer of wrap. Pull the wire tie tight. Wrap over the top of first layer continuing in the same wrapping direction as the first layer (clockwise or counterclockwise). The second layer must be tight and touching the prior wrap. (Figure B)



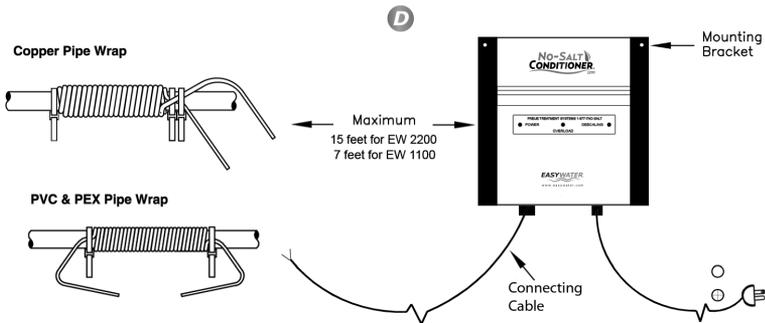
6. Wrap a third wire tie around the pipe and both wires. Pull the wire tie tight. **Do not wrap more than the amount specified. Wrapping more than the amount specified will cause an overload.** Cut off all but 5 inches of the remaining wire and dispose of the extra. (Figure C)

# Installation Instructions Continued

The control panel on all EasyWater No-Salt Conditioners is weather resistant and can be installed inside or outside. The control panel should be mounted in a position that allows easy visibility of the control panel lights so you can periodically check the system.

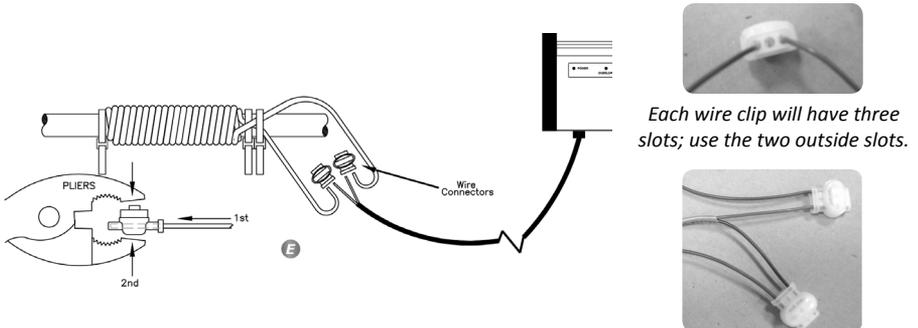
1. Drill holes if necessary into the wall or other mounting surface.
2. Insert the 2 screws into the bracket holes at the top of the control panel and tighten.

THE CONTROL PANEL MUST BE MOUNTED UPRIGHT WITHIN THE SPECIFIED LENGTH FROM WHERE THE SIGNAL WIRE IS WRAPPED AROUND THE PIPE (See Figure D). **DO NOT CUT THE CONNECTING CABLE.** If there is excess cable, simply coil it and secure with a wire tie. If after the control panel is mounted, the panel plug will not reach a standard 110v outlet, an extension cord will be required.



## Joining The Control Panel To The Signal Wire

1. Insert one wire from the control panel and one wire from the signal wire into each outside slot in a wire clip (leave the center slot empty). **Do not strip the wires before inserting into the clip.** Be certain that the wires are inserted to the back of the wire clip before squeezing closed with pliers. Squeeze down firmly with pliers to ensure a connection is made. Repeat for the other end of the signal and control panel wire. (Figure E). Wire nuts may be used instead of the wire clips to make the connection. Wire nuts are not provided.
2. Plug the control panel into a standard 110v outlet. If the power light (green) and descaling light (yellow) come on, the system is operating properly.



# Troubleshooting

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## *Maintenance*

EasyWater No-Salt Conditioner units do not require any maintenance. As long as the power and descaling lights are on, the system is working. If the power and descaling lights do not remain on or if the overload light is on, see the Installation Troubleshooting section below.

## *Installation Troubleshooting*

### **I plugged my unit in and no lights came on.**

1. Confirm the electrical outlet has power.
2. Call EasyWater Customer Service at 1(888) 766-7258.

### **My power and overload lights are on, but not the descaling light.**

When the power light and overload lights are on but the descaling light is off, this is generally a sign that a good connection has not been made from the signal wire to the control panel wires.

1. Make certain the signal and control panel wires are connected properly.
2. Confirm the wires are pushed all the way to the back of the 3M clip.
3. Using pliers, squeeze the wire connectors firmly to be certain they are closed.
4. Call your EasyWater Customer Service at 1(888) 766-7258.

### **All three of the lights (power, descaling and overload) are on or blinking.**

The overload light does not mean that the unit is going to overheat. However, it should not be on once the connections have been made and the system is plugged in.

1. Confirm that a PVC or PEX pipe has a single wrap. **(Do not double wrap PVC or PEX pipe).**
2. Confirm the pipe size was identified correctly and the the correct length of signal wire was wrapped. Wrapping more than the specified amount will cause the overload light to come on.
3. Call your EasyWater Customer Service at 1(888) 766-7258.

## **Dishwasher Tips**

If you have not been using a water softener, your dishwashing detergent amount will probably need to be reduced to prevent soap spots or etching on your dishes. If you were previously softening your water, do not reduce the amount of detergent you use.

EasyWater recommends using 1 Finish with Powerball Tablet in the main soap dispenser, and 1 Tablespoon of granular Lemi Shine in the pre-wash compartment of your dishwasher. Lemi Shine and Finish with Powerball can be purchased at local grocery and superstores. The combination of EasyWater conditioning, Lemi Shine and Finish with Powerball will reduce or eliminate spots or cloudiness on your dishes. A rinse aid (such as liquid Lemi Shine rinse aid) may be used to further reduce spotting.

## **Laundry Tips**

As with your dishwasher detergent, if you have not been using a water softener, you will probably need to reduce the amount of laundry detergent you were using or your clothes will still have soap residue after the wash cycle is complete. If you were previously softening your water, do not reduce the amount of laundry detergent you use.

# Limited Warranty

## Limited 3 Year Warranty Statement

LIMITED WARRANTY – EasyWater will repair or replace (at the company's discretion), without charge, any part of our treatment system which is proven defective under normal use within three (3) years from the date of purchase.

This warranty does not cover any failures due to accident, abuse, misuse, alteration, misapplication, acts of God, improper installation or for any other causes other than defects in materials or workmanship.

We assume no warranty liability in connection with this System other than specified herein. This warranty is in lieu of all other warranties, except where prohibited by law. All implied warranties including the warranties of merchantability and fitness for a particular purpose terminate three years after the date of purchase, except where such limitations are prohibited by law. We do not authorize any person or representative to assume for us any other obligations on the sale of this No-Salt Conditioner.

In order to obtain service under this warranty, it is the responsibility of the purchaser to promptly notify EasyWater of the nature of any failure or issue by phone at 1(888) 766-7258.

EasyWater will not be liable for any special, incidental, indirect or consequential damages resulting from the use of its products or any incidental costs of removing or replacing defective products.

This warranty is valid for the original purchaser only and gives you specific legal rights. You may have other rights which vary from state to state.

EasyWater  
9715 Kincaid Dr. Suite 1100  
Fishers IN 46037  
(888) 766-7258



*EasyWater is committed to the preservation and the quality of the Earth's most precious resource, our water. EasyWater systems benefit the environment as well as the health of our customers.*