

SB-XX Installation Quick Chart

Unit works on 115VAC or 230VAC automatically. If 230VAC is desired, replace plug.



ScaleBlaster comes with a 5 1/2' power cord.

Mount power unit on a solid surface using enclosed mounting brackets and screws.



LED lights. See details on reverse

OPTIONAL: Clearwater Activated Carbon Filter and/or Iron Filter



Pressure tank for well water

Optional Location

inlet pipe

main water shutoff valve

Install the signal cable on the incoming cold water supply line entering the home as close to where it comes into the house as possible.

Keep wires from touching each other - going from the terminals to the signal cable location on the pipe.

Keep *signal cable* at least two feet *away* from any major electrical interference.



At least 12" of straight pipe is desired - away from elbows, tees, valves & couplings

Nylon cable ties



Example of a properly wrapped pipe. No gaps or loose wire wrappings allowed!

See chart on back panel to wrap the coil and to determine the proper number of wraps

The SB-XX model is a powerful double coil unit that is designed for very hard water areas, large houses or those who would like to protect their pressure tank for well water. It is also ideal for those with tankless water heaters in hard water areas with large houses.

No more than 10' of wire is allowed between the power box terminals and the signal cable location wrapped on the pipe.

Components included with power unit.



Signal Cable (56') x2



Mounting Brackets (4)
Mounting Bracket Screws (4) Nylon Zip Ties (3) x2

Important! For best results, wrap signal cable on a straight section of pipe of 12" or more. Keep the signal cable as far away from tees, elbows, angles, couplings, valves and any curved pipe.



Optional Location

cold water to house

hot water to house



Hot Water Heater

OPTIONAL: Clearwater Sediment filter



If you cannot access the cold water pipe before it splits, follow the main cold water line as far back as possible from the water heater and install the coil there.

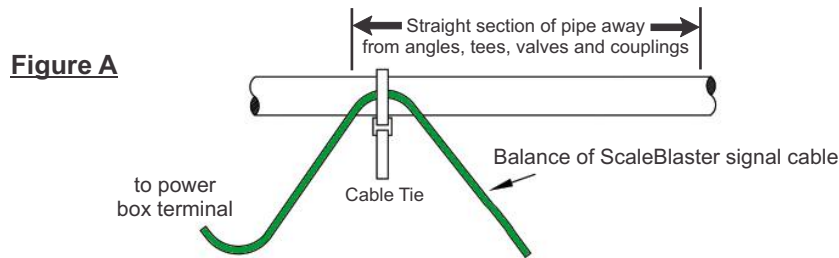
This model will work on copper, pvc, cpvc, and pex pipe. If you have galvanized pipe, or in other words -if a magnet will stick to the outside of the incoming water line- you will need to replace a small section of pipe with pvc or copper. You only need to replace the area where the signal cable goes and allow a couple of inches extra on each end.

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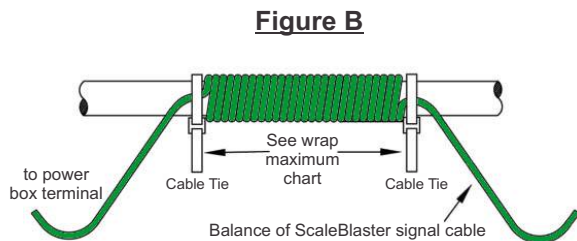
Wrapping the pipe with the ScaleBlaster Signal Cable

PVC, CPVC, or PEX PIPE INSTRUCTIONS

- 1.) Insert the pre-stripped end of the signal cable into one of the two signal terminals and tighten.
- 2.) Route the signal cable to the inlet pipe. Hold cable parallel and next to the pipe.
- 3.) Wrap one of the cable ties tightly so that the signal cable is secured to the pipe. **(Figure A)**



- 4.) Wrap the loose end of the signal cable securely around the pipe - in any one direction - the proper number of turns as noted in **yellow box**
- 5.) Make sure the wraps are flush against one other, wrapped tightly and not overlapping. Continue until you reach the recommended number of wraps.
- 6.) Wrap a second cable tie at the end of the wrappings securing the signal cable tightly. **(Figure B)**



- 7.) Route the loose end of the signal cable back to the power box. Trim excess cable to length.
- 8.) Carefully strip the outer plastic shield from the end of the signal cable leaving 1/4" to 3/8" of bare cable. Twist the bare cable and insert the end in the other terminal post on the power box and tighten the receptacle post.

* If you do not have the space to obtain the required number of wraps, a minimum of 35 wraps will be sufficient.

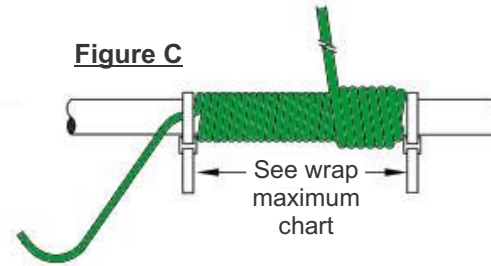
Wrap Requirement PVC or PEX pipe*

SB-XX

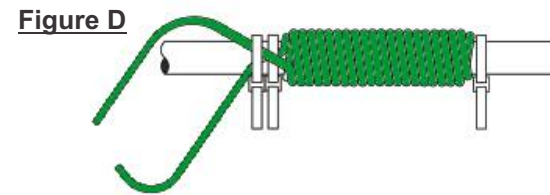
Pipe Size	Layers / Wraps
1/2"	Double 38 wraps
3/4"	Single 70 wraps
1"	Single 57 wraps
1 1/4"	Single 50 wraps
1 1/2"	Single 40 wraps

COPPER PIPE INSTRUCTIONS

- 1.) Follow the same instructions in same **steps of 1-6** for PVC, CPVC and PEX pipe.
- 2.) Instead of a single coil wrapping around the pipe, a second one is added for copper pipe.
- 3.) **YOU MUST KEEP THE SECOND WRAPPING IN THE SAME DIRECTION AS THE FIRST!** Wrap right over the top of the first layer continuing in the same wrapping direction as the first layer - clockwise or counterclockwise. This second layer must also be tight and touching the prior wrap. **(Figure C)**



- 4.) Wrap a third cable tie around the pipe and both wires. Pull the cable tie tight. **(Figure D)**



- 5.) Follow same instructions in **steps 7-8** for PVC, CPVC and PEX pipe.

* If you do not have the space to obtain the required number of wraps, a minimum of 35 wraps will be sufficient.

Wrap Requirement COPPER pipe*

SB-XX

Pipe Size	Layers / Wraps
1/2"	Double 50 wraps
3/4"	Double 50 wraps
1"	Double 45 wraps
1 1/4"	Double 40 wraps
1 1/2"	Double 35 wraps

ACTIVATING THE SYSTEM / LED LIGHT INDICATOR

Plug control box into electrical outlet after mounting the control box on the wall and wrapping the signal coil. The LED light on the front panel should light up. The far right light panel should stay on all the time while power is going to the ScaleBlaster box. Once the signal cable is installed, the remaining LED lights should come on and oscillate back and forth continuously.

ENJOYING THE SCALEBLASTER SYSTEM

There is no maintenance with the ScaleBlaster unit itself! No bags of salt to haul around, wasted water or batteries to change. Best of all, you are protecting the environment!

Allow up to 90 days to realize the full effects. Initial descaling may make things worse for awhile, especially in the dishwasher and aerators. This is normal! Simply clean out the screens or aerators. With dishwashers, we recommend cutting back on soap usage (unless you have been using a water softener). In July of 2010, manufacturers of dishwasher soap detergents cut back on phosphates - resulting in an increase in spotting and cloudiness. We recommend using *Cascade Action Pacs with Dawn* or *Cascade All-in-one Action Pacs* for best cleaning results. Another product that works best is *Lemi Shine*. You may also add white vinegar in the rinse cycle.

After the first 90 days, we strongly recommend you drain out your water heater. You will be amazed at what ScaleBlaster has cleaned out of your pipes! You may also want to inquire about the **Clearwater activated carbon filter and sediment filter system** for improved water quality without chlorine and other contaminants in the water.