SB-150/175 Installation Quick Chart

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

LED light. See details on reverse

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



ScaleBlaster comes with a 5' power cord.

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. Mounting Brackets (4) Mounting Bracket Screws (4) Nvlon Zip Ties (3)

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.



Notice:

If mounting the power unit outside, it must be kept out of the direct sunlight.



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





cold water to house

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.

inlet pipe Pressure tank for well water



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.

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

Nvlon 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

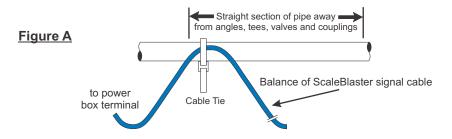
This model will work on copper, pvc, cpvc, and pex pipe. If you have galvanized pipe, or in other words -if a magnet will stick to the outside of the incoming water line- you will need to replace a small section of pipe with pvc or copper. You only need to replace the area where the signal cable goes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

SB-150/175 Installation Quick Chart

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)

Figure B to power box terminal Cable Tie See wrap maximum chart Cable Tie Balance of ScaleBlaster signal cable

- 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 form 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.

Wrap Requirement PVC or PEX pipe*

SB-150

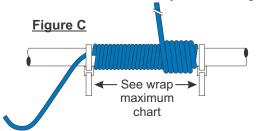
Pipe Size	Layers / Wraps
1/2"	Double 38 wraps
3/4"	Single 70 wraps
1"	Single 57 wraps
1 1/4"	Single 50 wraps

SB-175

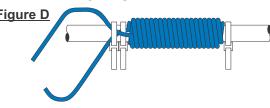
Pipe Size	Layers / Wraps
1/2"	Double 38 wraps
1/2	
3/4"	Single 70 wraps
1"	Single 57 wraps
1 1/4"	Single 50 wraps
1 1/2"	Single 40 wraps

COPPER PIPE INSTRUCTIONS

- 1.) Follow the same instructions in **steps 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)



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

Wrap Requirement COPPER pipe*

SB-150

Pipe Size	<u>Layers / Wraps</u>
1/2"	Double 50 wraps
3/4"	Double 50 wraps
1"	Double 45 wraps
1 1/4"	Double 40 wraps

SB-175

Layers / Wraps
Double 50 wraps
Double 50 wraps
Double 45 wraps
Double 40 wraps
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!