

# SMART DESCALER™ Installation Manual



**HydroCare**

Water conditioning with advanced technologies



The Smart Descaler™ works with all pipes but must have a metal connection point for signal induction.

### Packing List:

- Smart Descaler™ in an aluminum enclosure
- HydroCare AC/DC Adapter (power supply)- **Do not substitute**
- AC Power Cord
- AC Outlet Tester
- Blue wire with flat connector on one end and a plug on the other end
- Residential Quick Start Guide and signal light key. (Tag on cord)
- Pipe clamp with terminal connection for blue wire
- Smart Descaler™ Installation Manual
- 2ea Pipe Ties
- 4ea Mounting Screws
- Warranty Card

*\*Provided pipe clamp is for pipes up to 1 ½" – for larger pipes, similar style clamps are readily available in larger sizes at your local hardware store.*

### **INSTALLING THE SMART DESCALER™**



FIG. 1: AC Outlet Tester

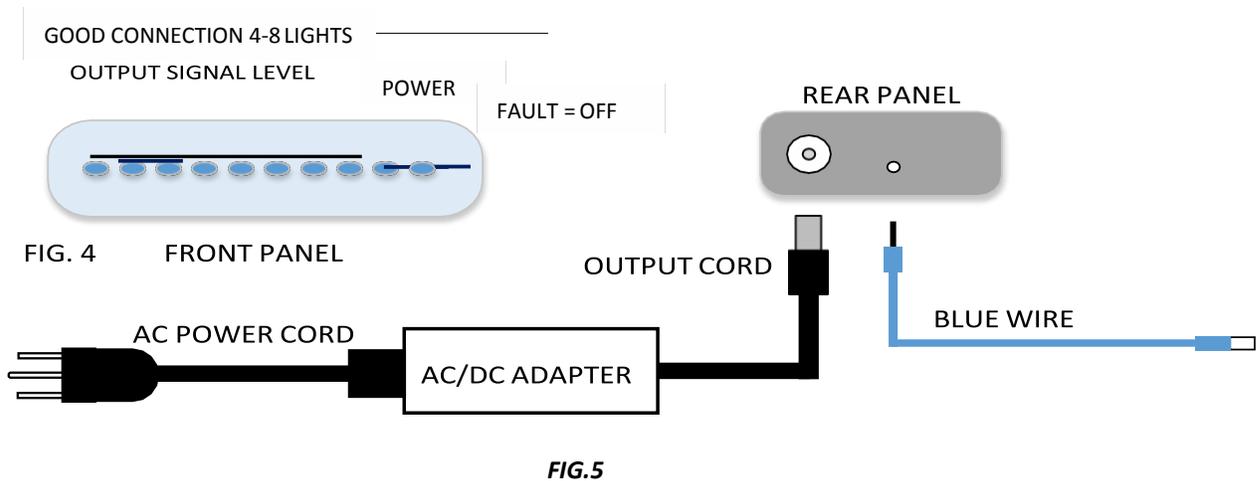


FIG.2 & 3: "BLUE WIRE" AND CLAMP

### **TEST ELECTRICAL OUTLET FIRST**

The Smart Descaler™ will only work with a properly wired three-prong type electrical outlet. Test the AC outlet with provided tester (See FIG. 1) before plugging in the Smart Descaler™. If you use an extension cord, be sure to test its three-pronged AC outlet plug, as well.

Plug in the AC tester. Electrical outlets conforming to the Uniform Electrical Code will show two yellow lights and no red light. If any different light configuration appears, there is a wiring problem with that outlet that should be fixed by a qualified electrician. Test another outlet for use.



## **INSTALLATION OF THE SMART DESCALER™**

1. Plug the "Output Cord" into the Smart Descaler™ "Rear Panel." See Fig. 5.
2. Plug the provided HydroCare "AC Power Cord" into the "AC/DC Adapter."
3. Plug the "AC Power Cord" into the pre-tested AC electrical outlet. Initially, the lights will flash for 5 seconds.
4. All 8 "Signal Level" blue lights on the front panel should be lit. The "Power" light should be lit. The "Fault" light should be off. See FIG. 4. (See the hanging tag for signal light key)
5. Touch the flat metal end of the blue wire against any metal pipe for a few seconds. If there are 4-8 sequentially flashing lights shown, and the fault light is not lit then the location is good. First try the cold water supply line to the hot water tank, if the connection is not good, then try the hot water supply line or apply to any other metal pipe in the system. **\*DO NOT USE the overflow pipe of the hot water tank, because it usually contains no water to transmit a descaling signal.**
6. Once an appropriate connection point has been located, connect the flat metal end of the "Blue Wire" to the clamp by inserting it into the hole in the clamp and screwing down the top of clamp screw (FIGS 2-3). Then, connect the clamp to the pipe using a screwdriver to tighten the clamp. If the pipe is corrugated, use the smooth ends for connection. Corrugated copper pipes are made of thin metal, so be careful not to over-tighten clamps on them.
7. Congratulations, your Smart Descaler has been successfully installed, self-tested and is fully operational

## **TIPS & INFORMATION**

1. **DO NOT connect to metal braided hot water heater supply lines.** Metal braided supply lines are plastic tubes covered by a protective braided wire mesh. The plastic tubes are electrical insulators that prevent the signal from entering the water.
3. **ALTERNATIVE INSTALLATION:** The Smart Descaler can be installed on the main water supply line into the residence or on any metal pipe on the plumbing system. This is not limited to only the hot water tank. For more information on special installations please contact HydroCare Service at the number provided below.
4. The Smart Descaler should be mounted in a dry area free of dripping water. It should be hung from a pipe with tie-wraps or wall mounted with screws, both provided.
5. If your electrical and plumbing systems comply with the Uniform Electrical Code and Uniform Plumbing Code, the directions in this Installation manual should result in a successful installation. For installation help or service questions refer to the Owner's Manual available online at [www.wavehomesolutions.com](http://www.wavehomesolutions.com) or call HydroCare Service.

## **WARRANTY**

The provided HydroCare Power Supply must be used or the warranty will be voided.

Our commitment to high quality, exemplary service and complete customer satisfaction is unsurpassed. We offer an incredible One Year Performance Guarantee along with a Three Year Parts Warranty.

Please fill out the provided Warranty Card and return to HydroCare.

## **MANUFACTURERS GUARANTEE**

Should any fault occur during the first three years of operation it will be replaced or repaired free of charge. Do not attempt to carry out any unauthorized repair as this will invalidate the guarantee.

Retain the proof of purchase and contact the supplier or place where the unit was purchased.

This guarantee does not affect the consumer's statutory rights and does not include the shipping costs.

HydroCare does not accept any responsibility for water leaks that may occur by the removal of limescale or for any losses arising from the use of its water conditioners.

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