

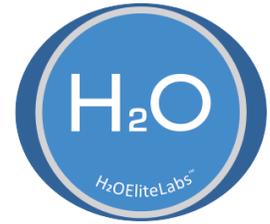
# *H<sub>2</sub>OEliteLabs Max i*

Residential model - indoor installation  
Operation Manual



**[H2oEliteLabs.com](http://H2oEliteLabs.com)**

# Table of Contents



Page 2: Table of contents

Page 3: What's included, Types of pipes that can be used and Elite Max i specs

Page 4: Installation location

Page 5: Mounting the control module, installing the induction coil

Page 6: Installing the induction coil, coil chart

Page 7: Coil chart, connecting the power adapter

Page 8: Connecting induction coil, Features and notifications

Page 9: Optional Equipment, Technology and how it works

Page 10: Benefits of the H2oEliteLabs Max i

Page 11: Warranty information and product support



## H2oEliteLabs

- One time, affordable initial cost
- Zero maintenance
- Zero additional products required
- Zero negative environmental impact
- Zero floor space wasted; wall mounted unit
- Zero invasion into the water supply
- Zero risk to health
- Soft water continuously available
- Soaps rinse clean, no residue
- Zero water waste



## Traditional Water Softener

- High priced initial cost
- Continued maintenance required over lifespan
- Requires heavy bags of salt
- 40lb bag of salt @\$6.00/Mo = \$72.00/Year
- Wastes Water Raising both water and sewage cost
- Discharges salt into public water or well water
- Dangerous for people on salt restrict diets
- Soft water not available during 'regeneration
- Cycles Daily
- Soap and detergent do not thoroughly dissolve

# What's Included



EWC-Elite Max i  
Control module



AC adapter (115 volt  
class, UL approved)



Signal cable AWG18  
(60')



4 Nylon cable  
ties



Screws and wall anchors

---

## Types of pipes that can be used with Elite-Max i



Copper Pipe



PVC Pipe



CPVC Pipe



PEX Pipe

Please note: The EWC Max i cannot be used on galvanized pipe or any kind of steel pipe. In the event that galvanized or steel pipe is present. A section of the galvanized or steel pipe must be removed and replaced with copper, PVC or PEX pipe. The induction coil then has to be applied onto the replaced section of pipe.

---

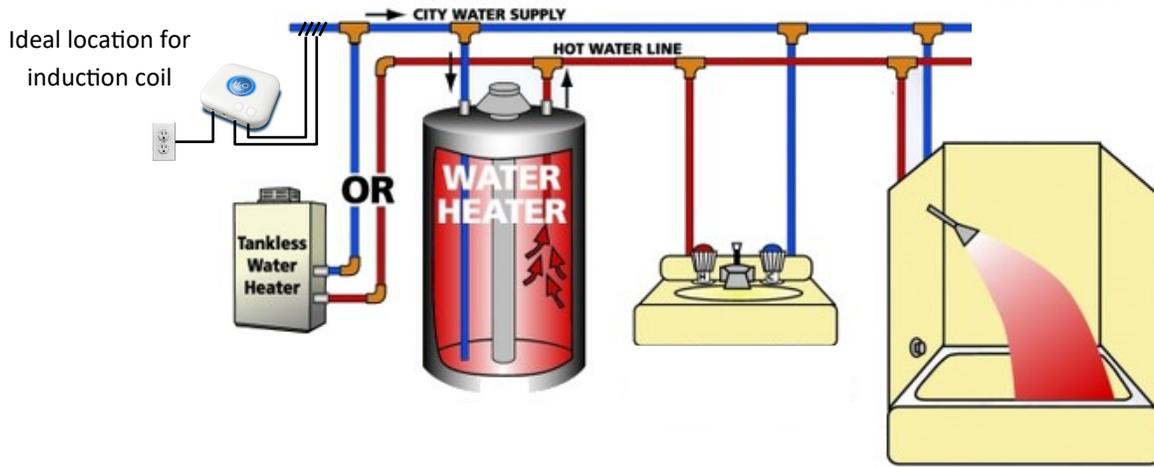
## Elite-Max i specifications

- Indoor use only
- Handles up to 35 gpg (grains per gallon) or 598 ppm
- Up to 5,000-sq. ft. home
- Works on copper, PVC, CPVC and PEX
- Up to 1.25" diameter pipe
- 3-year warranty
- UL/CUL approved
- Can be installed on horizontal or vertical pipe
- Leak detection capability



# Installation Location

1. Determine where the main cold water line enters the house or condominium.



2. Apply induction coil to main cold water line. If the main cold water line is not assessable then apply induction coil to the incoming cold water line to water heater or tankless water heater. Only hot water appliances will have treatment if the induction coil is applied to the hot water. In most cases the hot water system is the main culprit for limescale build up so this line will provide protection and treatment. (Induction coil can be installed on a horizontal or vertical pipe)

3. If there is a water softener loop present the induction coil can be applied at this location also. Additional plumbing may be required. (This line may or may not treat kitchen faucets or outside spigots)

4. Customers using well water must apply induction coil after the pump and pressure tank if present. The Elite Max i is an indoor only model. Provisions for outdoor locations must be considered.

5. The Elite Max i can be used in conjunction with other water treatment systems, filters or water softeners. The induction coil must be installed after this equipment. If using in conjunction with a water softener you may keep the water softener online or turn it off by engaging the bypass mode. Under sink filtration systems will not effect performance of Elite Max i.



Well pumps



Water softener



Water softener loop

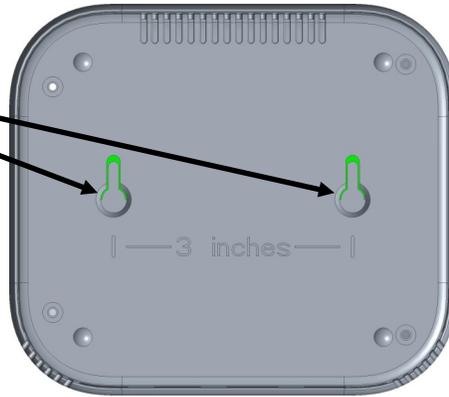


House filtration

# Mounting the control module

The control module can be mounted on any type of wall or surface with supplied mounting hardware. Supplied hole template can be used to mark screw spacing. There are two mounting holes located on the back of the control module.

Mounting holes with 3" (76.2mm) center to center spacing



Screws and wall anchors

---

# Installing the induction coil

1. Once the ideal location is determined for the induction coil on the main incoming cold-water line, then the coil must be wrapped around the outside of the pipe. You will need approximately 12" of straight pipe to apply the induction coil to.

2. There are two styles of coils applicable, a single layer coil wrapping and a double layer coil wrapping.

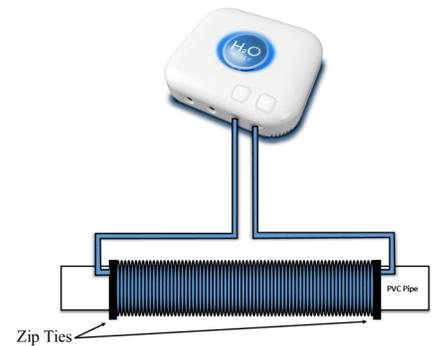
3. When applying the single layer or double layer style coil determine how long of coiling and layers needed for your size and material pipe (refer to coil wrap chart on pages 6&7)

4. To begin the coil wrapping, mark the length of the coil needed for your pipe size and type. Then measure out between 1' and 15' of wire for the first lead to the control module (the lead wires from the coil to the control module can be no longer than 15' maximum but can be cut shorter to desired length)

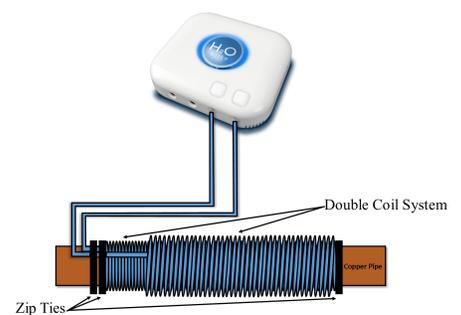
5. The first lead must be secured to the pipe with the supplied cable ties.

6. Once the first lead wire has been secured with a cable tie, begin wrapping the wire around the pipe in any rotation (clockwise or counter clockwise).

7. When finished wrapping the pipe secure the other lead wire with a cable tie as seen in diagram.



Single layer coil wrap

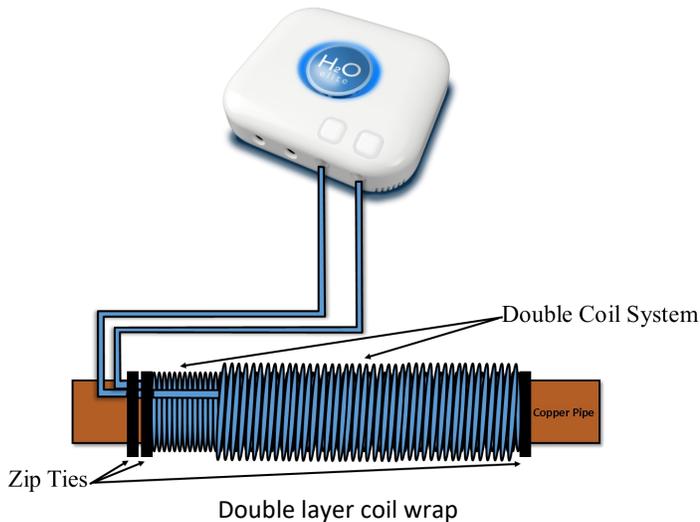


Double layer coil wrap

# Installing the induction coil (continued)

9. Installing the induction coil on copper pipe will need a double layer coil. Wrap the first layer coil as mentioned on the previous page.
10. When finished wrapping the first layer and securing to the pipe with a cable tie, then another layer of wrapping must be applied on top of the first layer of wrappings with the remaining wire.
11. The second layer of wrappings must be wrapped with the same rotation as the first layer of wrappings (if the first layer is clockwise then the second layer must be clockwise also or if the first layer is counter clockwise then the second layer must be counter clockwise also).
12. When the second layer is complete secure the wire down to the pipe with a cable tie (both wire leads will exit on the same end of the induction coil).

Note: Keep induction coil far away as possible from elbows, tees and couplings and never wrap coil on top of any fitting.



## Coil Chart for PVC, CPVC and PEX

Note: Always use specified length and layers of wraps for your pipe size.

NPS Pipe size	Layers	Approx. Coil Length
1/2"	Double	4.5"
3/4"	Single	8"
1"	Single	7"
1 1/4"	Single	6"
1 1/2"	Single	5.5"

# Coil Chart for Copper

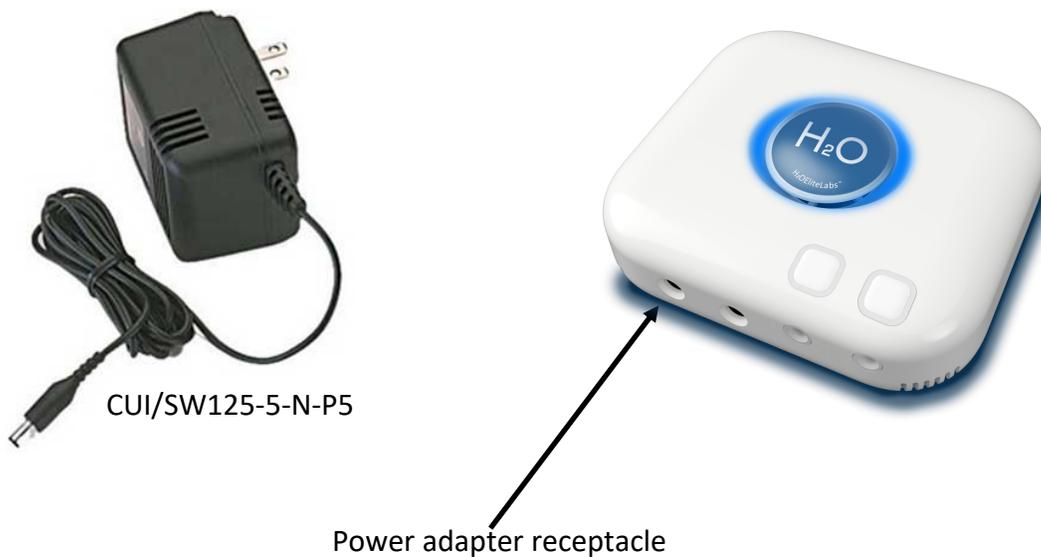
Note: Always use specified length and layers of wraps for your pipe size.

NPS Pipe size	Layers	Approx. Coil Length
1/2"	Double	6"
5/8"	Double	6"
3/4"	Double	6"
1"	Double	5.5"
1 1/4"	Double	5"
1 1/2"	Double	4.5"

---

## Connecting the Power Adapter

The control module comes with a 115 VAC power adapter with a 5' cord. Part number: **CUI/SW125-5-N-P5**. *Only use supplied power supply.* This must be inserted into the power receptacle jack in the bottom of the control module. Once the power adapter is inserted into the control module, plug the power adapter into the nearest wall outlet. If there is not a wall outlet near, an extension cord can be used.



# Connecting Induction Coil

1. Upon completion of installing the induction coil, the two wires leading from the induction coil must be connected to the control module.
2. You will need to strip approximately .5" of the wire insulation from each wire.
3. There are two illuminated holes in the bottom of the control module to receive the stripped wire ends.
4. To insert the coil wires into the control module there are two illuminated push buttons located on the front of the control module. Press down on the buttons one at a time to insert each of the wires into the control module.
5. Once the buttons are released with the wire inserted this will lock the wire into the receptacle. Give the wire a gentle tug to make sure wires are connected properly.
6. When routing induction coil leads back to the control module make sure they are not twisted together or touching each other as much as possible.
7. Make sure the two wires coming from the induction coil are no longer than 10' in length. These lines can be cut shorter to desired length needed.



Example of wire with the insulation removed



Illuminated buttons and holes for wire insertion



Solid red logo illumination indicates an power issue or no coil detected, blinking red indicates water leak



When the coil is connected and unit is functioning properly, logo illumination will go from solid green to solid blue

---

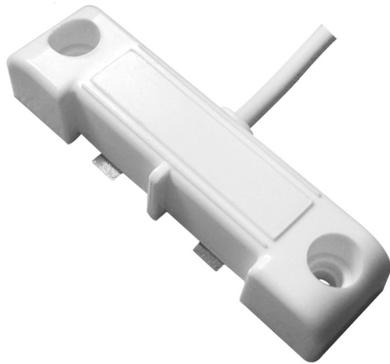
## Features and Notifications

The Elite Max i comes equipped with four color illumination and sound notifications.

1. The buttons on the front and wire receptacle holes on the bottom of the control module will illuminate a white light to aid with the installation of the coil wires.
2. The logo halo will stay solid red until a coil is detected. Once the coil is detected the logo halo will go to solid green.
3. The solid green logo halo illumination will turn blue to notify that the Elite Max i is functioning properly. At this point the button and coil hole illumination will turn off.
4. If in the event the logo halo illumination goes to red there is an power issue to the control module.
5. The Elite Max i is equipped with an optional water leak detection module.
6. In the event the water leak detection module detects a leak an audible buzzer will sound and the logo halo will blink red until the water leak is rectified.

# Optional Equipment

The Elite Max i is equipped with an optional water leak detection module. The water leak detection module will alert the user with an audible and visual notification in the event of a water leak. The leak detection module should be installed on the floor where there is a possibility for water leaks.



---

## Technology and How it works

Our EWC products provide a specifically designed Magnetic and Electric Field with a high-speed pulse wave on a variety of pipe sizes and materials in Residential, Commercial and Industrial applications.

This magnetic field creates Nano bubbles (surface diameter less than a micron) that coats the inside of the pipe and doesn't allow scale to form.

Hard Scale that forms and is very difficult to remove is Calcite (similar to cement or grout in Harness)

Our Unique approach converts Calcite to Aragonite. [Aragonite is a powdery material that can be easily wiped off surfaces.](#)

Our Magnetic field changes the surface tension of the water and some of the water molecules break into HO (-) and H (+) ions. This ionic change allows Calcium to bind with OH (-) ions creating Calcium Hydroxide  $\text{Ca(OH)}_2$  which is water soluble.

Calcium Hydroxide is then able to easily be broken down inside the pipe and passed through the system.

The magnetic field also creates a mechanical component by pulsing the signal 25 times a second. The signal breaks down existing scale over time and allows it to pass through the pipes

As hard water particles are removed from existing pipes the water pressure will increase and help to remove existing scale and stop new scale build up on pipes, heating elements, and any other surfaces, coming into contact with this water.

# Benefits of the H2oEliteLabs Max i

The most outstanding feature of the H2oEliteLabs Max i, is that it's completely maintenance free. No, salt, no chemicals, no batteries, totally solid state design and no expensive repairs. H2oEliteLabs is environmentally friendly without the use of salt and leaving essential minerals it is also better for your health. To harness the full effect of the H2oEliteLabs Max i it may take up to 90 days to completely remove scale buildup from the entire plumbing system.

The removal of scale build up from pipes and equipment may worsen water quality initially, this is normal. When the decaling effect removes scale build up from the system in severe cases this may clog up faucet aerators and may have mineral fall out in dishwashers and hot water heaters. It is recommended that water heaters be purged after 90 days of using H2oEliteLabs Max i.



# Warranty information and Product Support

## H2oEliteLabs Max i

The H2oElite Max i has a warranty period of 3 years from the date of purchase. Free of defects in material and workmanship under normal use. This warranty does not extend to any water or electrical appliances or damaged plumbing nor other damages that occurred before or after installation. The manufacture in no way will be liable for damages from improper installation or damaged pipes or any other damages directly or indirectly. This warranty is limited to repair or replacement and voids any warranty either expressed or implied.

This warranty does not include damage due to accidents, abuse, tampering, misuse, fire, lightning or any catastrophic acts of God. If malfunction or failure results the H2oElite Max i will be repaired or replaced by the manufacture and returned to the original owner for a period of 3 years from the date of purchase. This warranty is limited to the original retail purchaser and is non transferable.

To claim your warranty

Please call 800-940-8424

You must retain your original receipt of purchase to claim your warranty

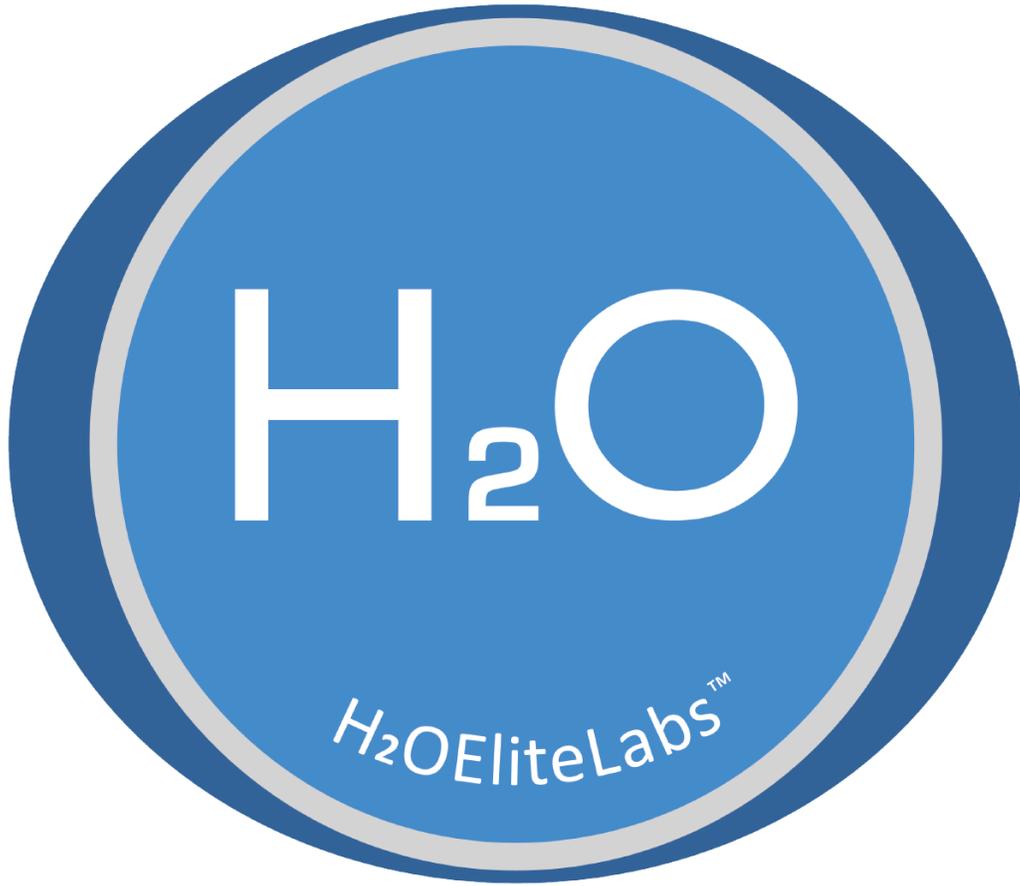
Please fill in and retain for your records

Purchase date: \_\_\_\_\_ Serial # \_\_\_\_\_

Attach your original receipt here:



If you have any question regarding installation or general information about H2oElite Max i, please contact us via email at [info@h2oelite.com](mailto:info@h2oelite.com) or by calling toll free at **1-800-940-8424** or **727-221-7463** Monday - Friday, 8am to 5pm Eastern



**H2oEliteLabs.com**

**800-940-8424**