WATER MAZE POOL HEATER

ENV-597

USER'S MANUAL

DOC-213
Rev. 1.2

notes

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CHAPTER 1 | INTRODUCTION

The ENV-597 Water Maze Pool Heater is intended to be used to maintain a constant temperature in either the mouse- or rat-sized pools. The heater will arrive installed in the water maze pool configured for ˚C display. The user will set their desired pool temperature. This manual should be carefully read prior to operating the heater.

Figure 1.1 – Water Maze Pool Heater
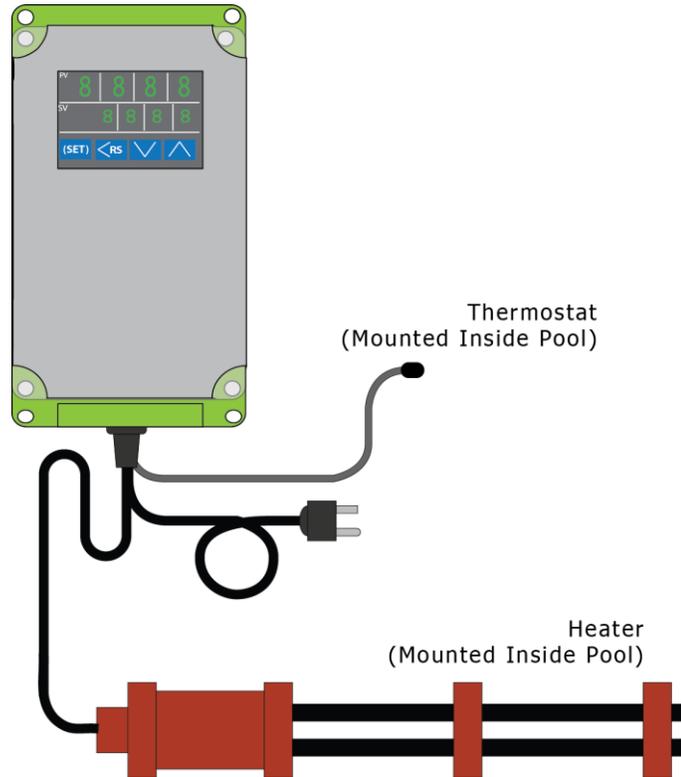
Warnings

Note: Failure to comply with the following actions will result in heater failure and possible equipment damage, injury or fire.

1. **Place the heater controller in a dry location**. Moisture in the controller will cause failure.

2. **Do not operate the heater when it is out of the water or in low water**. An exposed heater is a potential fire hazard.

3. **Allow the heater to cool for 20 minutes before removing it from the pool**.

4. Protect the heater from power surges by having the properly sized circuit breaker or inline fuse. See label on heater controller.

5. Be sure the thermostat sensor is immersed in water and positioned away from the heater element.

CHAPTER 2 | THERMOSTAT SETTINGS

Setting the Temperature

In order to set the temperature, or make other settings changes, remove the four Phillips screws from the corners of the clear protective cover to gain access to the keypad. Be sure your work area is clean and dry before removing the cover.

The upper red display labeled **PV** (present value) is the current temperature of the water. The lower green display labeled **SV** (set value) is your desired temperature.

To adjust the **SV** (set value):

1.) Press and release the **SET** button once, the display will now illuminate all four digits of the green **SV** display. The "ones" digit will be highlighted and active.

2.) Press the **^** or **ˇ** keys to increase or decrease the temperature in increments of 1˚C.

3.) Press the **<r/s** key and use the **^** or **ˇ** keys to increase or decrease the temperature in increments of 10˚C.

4.) Repeat step 3 if you need to adjust the "hundreds" digit value.

5.) Press and release the **SET** key to exit

6.) Replace the clear protective cover

Changing to ˚F

In order to change the temperature display to ˚F:

1.) Press and hold the **SET** button until the top red display reads **Aru**.

2.) Press and release the **SET** button three times until the top red display reads **LCK**. The bottom green display should read **0011** indicating the settings menu is locked.

3.) Use the **<r/s** and **^** and **ˇ** keys to change the **LCK** value to **1000** and then press the **SET** key. The settings menu is now unlocked and changes can be made.

4.) Press and hold the **SET** key to exit this menu.

5.) Press and hold the **SET** and **<r/s** keys simultaneously until the top red display reads **Cod**.

6.) Press the **SET** key two times until the top red display reads **SL2**

7.) Use the **<r/s** and **^** and **ˇ** keys to adjust the value of **SL2** to **0001**

8.) Press the **SET** key

9.) Press and hold **SET** and **<r/s** simultaneously to exit the **Cod** menu

10.) Repeat steps 1-4 to change the **LCK** value back to **0011** to prevent unwanted settings changes

11.) Replace the clear protective cover

Changing to ˚C

In order to change the temperature display to ˚C:

1.) Press and hold the **SET** button until the top red display reads **Aru**.

2.) Press and release the **SET** button three times until the top red display reads **LCK**. The bottom green display should read **0011** indicating the settings menu is locked.

3.) Use the **<r/s** and **^** and **ᵛ** keys to change the **LCK** value to **1000** and then press the **SET** key. The settings menu is now unlocked and changes can be made.

4.) Press and hold the **SET** key to exit this menu.

5.) Press and hold the **SET** and **<r/s** keys simultaneously until the top red display reads **Cod**.

6.) Press the **SET** key two times until the top red display reads **SL2**

7.) Use the **<r/s** and **^** and **ᵛ** keys to adjust the value of **SL2** to **0010**

8.) Press the **SET** key

9.) Press and hold **SET** and **<r/s** simultaneously to exit the **Cod** menu

10.) Repeat steps 1-4 to change the **LCK** value back to **0011** to prevent unwanted settings changes

11.) Replace the clear protective cover

APPENDIX A | FACTORY SETTINGS

The menu settings should be as follows:

SL1 = 0001 - Thermocouple type J (indicated on power up, default)

SL2 = 0010 - Degrees Celsius (indicated on power up, default). **0001** = Fahrenheit

SL3 = **0000** – Not used

SL4 = 0000 – Not used

SL5 = 0000 – Not used

SL6 = **0001** – Heat on (default). **0000** = Heat off.

SL7 = 0000 – Not used

SL8 = 0000 – Not used

SL9 = 0000 – Not used

Aru = **0**

P = **0**

Pb = **0**

LCK = **0011** – Settings locked (default). **1000** = Unlocked

APPENDIX B | CONTACT INFORMATION

Please contact MED Associates, Inc. for information regarding any of our products.

Visit our website at www.med-associates.com for contact information.

For technical questions, email support@med-associates.com.