

Replacing Chromalox Temperature Controller with Omron Temperature Controller		TSB 2014002
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TECHNICAL SERVICE BULLETIN

OVERVIEW:

Effective December 5, 2014, Better Water will start using the Omron Temperature Controller instead of the Chromalox Temperature Controller because of easier use and programmability. Prior to this, there have been two Chromalox models used. When replacing a Chromalox with an Omron, the only difference is the position of the connecting wires. The part number **ELCPD10001** remains the same. The differences between these models and the wiring connection changes are detailed below.

Refer to the pictures below to determine which model you have:



Chromalox model
1600
Part#
ELCPD10001

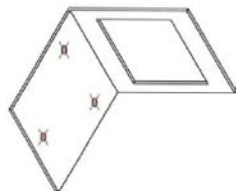


Chromalox model
6040
Part#
ELCPD10001



New Omron model
Part#
ELCPD10001

If replacing an older model Chromalox model 1600 Temperature Controller you will also need to order the new model's bracket whose part number is **FXBROO00894**, which is slightly larger.



New Model Bracket
Part#
FXBROO00894



WARNING
 To avoid electrical shock, turn the power to the RO OFF, and unplug it from the electrical outlet.
 A lock-out tag should be placed on the unit to prevent accidental use while this
 Replacement is underway.

PROCEDURE:

1. Turn OFF power to the RO.
2. Open the cover to the Control Box.
3. Unclip the old model Chromalox Temperature Controller, and gently pull it forward so the attached wires can be accessed.

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4. Before releasing the attached wires make note of the individual wire numbers and which post-screws they are attached to on the old model, using the following schematic label for reference.

<p>Chromalox Model 1600</p> <p>Wire #1 to Post #1 Wire #2 to Post #2 Wire #3 to Post #3 Wire #4 to Post #4 Wire #5 to Post #5 Wire #9 to Post #9 Wire #10 to Post #10</p>	
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<p>Chromalox Model 6040</p> <p>Wire #1 to Post #6 Wire #2 to Post #5 Wire #3 to Post #4 Wire #4 to Post #13 Wire #5 to Post #14 Wire #9 to Post #9 Wire #10 to Post #10</p>	
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4. Carefully release each of the seven wires by loosening the post-screws they are attached to.
5. Once all the wires have been released, carefully remove the old model Chromalox Temperature Controller from the unit.
6. If replacing the bracket, remove the three screws that secure the old bracket.
7. Install the new bracket.
8. Each of the seven wires that were attached are individually numbered. Use the following diagram to attach the correct wire to the correct post-screws on the new Omron Temperature Controller. The schematic label on the side of the Controller should also be referenced to assist with the installation.

<p>Omron Model</p> <p>Wire #1 to Post #4 Wire #2 to Post #5 Wire #3 to Post #6 Wire #4 to Post #1 Wire #5 to Post #2 Wire #9 to Post #11 Wire #10 to Post #12</p>	
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9. Install the new Omron Temperature Controller into the Control Box, by carefully pushing it into place and using the clip to properly secure it.
10. Turn ON the power to the RO.
11. Verify the new Omron Temperature Controller is working properly.
12. Close and secure the cover to the Control Box.