When Installing this Product:
1. Read these instructions carefully. Failure to comply could damage the product or cause a hazardous condition.
2. Check the ratings provided in the instructions and on the product to make sure the product is suitable for the application.
3. Installers must be trained, experienced, and licensed service technicians.
4. Follow local codes for installation and application requirements.
5. After the installation is complete, verify proper operation of the product by following the instructions provided in this manual.

**WARNING**

All wiring must be installed in accordance with local codes and regulations. This accessory will not operate in conjunction with the Navien HyKit system.

1.1 Included Items

The product is supplied with the following items. Make sure that the installation kit contains all the items before installing the product.

- Main Connector - 13-pin to Snap-on Main control connector (13-pin cable)
- Snap-on Water heater
- Temperature Sensor** (Not polarity sensitive)
- Push Button Switch Contact #2
- Push Button Switch Contact #1
- Push Button Switch Contact #1
- Push Button Switch Contact #2
- Temperature Sensor (optional)**
- Snap-on Temperature Sensor (optional)**

**When the optional temperature sensor is installed, it must be insulated. The sensor wire may be extended by up to 100 ft (30m) using 22AWG wire.

1.3 Device Layout

Refer to the following diagram for the product layout.

1.3.1 Wiring Connection Table

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Wiring Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal 1</td>
<td>12 V Signal Contacts for wireless push button or motion sensor connection</td>
</tr>
<tr>
<td>Signal 2</td>
<td>5 V GND Contacts for multiple push button switches</td>
</tr>
<tr>
<td>Sensor 1</td>
<td>Contacts for temperature sensor connection</td>
</tr>
</tbody>
</table>

---

2. Installing the Device

This section provides information required to install the HotButton Kit in an NPE-180A/210A/240A water heater.

**WARNING**

Ensure that you have turned off the power to the water heater before installing the device.

2.1 Basic Principles

The following diagram shows the basic operation of an NPE-180A/210A/240A water heater recirculation system with the HotButton Kit.

2.2 Installing the Device in an NPE-180A/210A/240A Water Heater

Follow the instructions to install the HotButton Kit in an NPE-180A/210A/240A water heater.

1. Turn off the power supply to the water heater.
2. Remove the water heater’s front cover by loosening the four screws securing it out.
3. Make sure that the 2-way valve is turned to the EXTERNAL setting, once the plumbing system is completely installed.
4. Install the HotButton Kit onto the NPE-180A/210A/240A water heater’s PCB tray. Align the latch at the back of the case with the front lip of the PCB tray. Then pivot the HotButton Kit onto the PCB tray until the latches snap-on to the catch bars.
5. Connect cables to the HotButton Kit. For more details, refer to “3. Wiring The Device.”
When you connect the push button switches to the controller, you can run cables from each switch directly to the controller and connect them to the same terminal. Or, you can run a common branch circuit that runs from the controller and connect each switch to the branch.

4.2 Parameter Setting for the Recirculation Pump Operation

Refer to the tables on page 7 to set the pump duration for the recirculation operation by HotButton signal.

Follow the instructions in 4.1.1 Entering the R&D Information Menu to enter the parameter setting mode. Press the up (+) button until you reach the item to verify or configure.

### HotButton pump cycle interval time (P. 12)

<table>
<thead>
<tr>
<th>Item</th>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.12</td>
<td></td>
<td>Pump duration for the recirculation operation by HotButton signal</td>
</tr>
<tr>
<td>Range</td>
<td></td>
<td>1–5 (min) 5 min</td>
</tr>
</tbody>
</table>

* The default setting (5 minutes) is recommended for most applications. Set the duration to 5 minutes or less to conform to the energy saving requirements in California.