









# Thermo Scientific Piko Thermal Cycler

| Step | Action   |
|------|--|
| 1    | Place the cycler on a bare bench top for adequate air intake and leave at least 10 cm around the exhaust vents for proper air flow.  |
| 2    | First, connect the power supply to the back of the Piko® Thermal Cycler. Then plug the power supply into the wall outlet.  |
| 3    | Press  to open the drawer and remove the shipping plate from the block.   |
| 4    | Select <b>NEW</b> or <b>RUN</b> from the function keys to load or create a protocol (see the reverse side).  |
| 5    | Place sealed PCR vessels into the block. Sealers or caps may also be applied with vessels in the block.  |
| 6    | Close the drawer to begin the protocol.  |
| 7    | Monitor the run using the <b>STAT</b> or <b>TIME</b> function key.   |
| 8    | Press  to cancel the run or the <b>PAUSE</b> function key to pause the run. Pressing  will also pause the run and open the drawer. |
| 9    | Once the run completes, press the <b>EXIT</b> function key and then press  to raise the lid and release the drawer.   |

## To create a new protocol:

| Step | Action   |
|------|--|
| 1    | Press <b>NEW</b> and the default protocol will appear. The temperature for each step is represented above the line and the time (min:sec) below the line.  |
| 2    | To switch between semigraphical and list mode, press  .   |
| 3    | Use the cursor keys to navigate to each step/value.  |
| 4    | Modify the value with the keypad (for example, for 60.5, press 6, 0, 5). To enter an infinite hold press  .   |
| 5    | To add a temperature step, press <b>ADD</b> and then <b>TEMP</b> . Steps are added to the right of the current step.   |
| 6    | To add a loop: <ul style="list-style-type: none"> <li>- Highlight the first step in the loop.</li> <li>- Press <b>ADD</b> and then <b>LOOP</b>.</li> <li>- The default loop has 3 steps and 35 cycles.</li> <li>- To modify loop, press down the cursor key twice (the cycle number will be highlighted).</li> <li>- To change the number of cycles, enter a number between 2 and 999.</li> <li>- The <b>F3</b> button toggles between two modes, allowing modification of the beginning or the end of the loop ( or  symbols). The right and left cursor keys will move the beginning or the end of the loop.</li> <li>- Press <b>YES</b> to accept or <b>NO</b> to cancel the GOTO step.</li> <li>- Edit the number in the center of the arrow to adjust the number of repeated cycles.</li> </ul> |
| 7    | To delete a highlighted step, press <b>DEL</b> .   |
| 8    | To save a new protocol: - Press <b>SAVE</b> . Select the folder and file to overwrite an existing protocol. To create a new file, press <b>NEW</b> , type the name and press <b>YES</b> .<br>To save an edited protocol: - Press <b>SAVE</b> . The file will be saved to the same folder. To save it to a new folder, press <b>BACK</b> and create a new folder.<br>- Press <b>YES</b> to save the protocol.   |



### To edit an existing protocol:

| Step | Action   |
|------|--|
| 1    | From the <b>Main</b> menu, press <b>RUN</b> .  |
| 2    | Use the cursor keys to navigate to the desired folder and press <b>OPEN</b> .  |
| 3    | Select the desired protocol and press <b>OPEN</b> .  |
| 4    | Press edit to make changes and use Steps 1–7 (see “To create a new protocol” on the front page) or press list to make changes in a non-graphical view. |

**Note:** When editing a field, the Cancel key is used to delete.

### To run an existing protocol:

| Step | Action  |
|------|---|
| 1    | From the <b>Main</b> menu, press <b>RUN</b> .                                 |
| 2    | Use the cursor keys to navigate to the desired folder and press <b>OPEN</b> . |
| 3    | Select the desired protocol and press <b>OPEN</b> .                           |
| 4    | Press <b>START</b> .  |
| 5    | Follow on-screen instructions.  |

All cross-references refer to the *Thermo Scientific Piko Thermal Cycler User Manual*, Rev 1.0 (Cat. no. N11470).

#### Manufactured by:

Thermo Fisher Scientific Oy  
 P.O. Box 100, FI-01621 Vantaa, Finland  
 Tel. +358-9-329 100, Fax +358-9-3291 0415  
 www.thermoscientific.com

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