Part 1 - Quick Display Overview

Display Icon | Description
--- | ---
| | Digits indicating:
• Boiler Status (bp) • Temperature (°F) with bar level • Error Codes (ERROR) • Press Reset Button Request (RESET) (boiler lockout) • Menu Settings
| Technical assistance request
| Flame detected with indication of power used
| CH Heating Operation Set
| DHW Operation Set
| DHW Operation Active
| Hot Water Comfort Activated (Comb Only)
| Boiler off with Antifreeze Function Active

Table 1 - Display Icon Descriptions

On / Off Button

The button lights (white) when the boiler is electrically powered.
The button is not lit in the event of an error or power failure.

RESET BUTTON

The button lights (red) in the event of a lockout error.
After pressing the Reset button to clear an error condition, the button will flash for five (5) seconds.

Part 2 - Powering On the Appliance - Quick Temperature Adjustment

Press the ON / OFF button on the control panel to power on the boiler.
The display shows the current operating mode.

Operating Mode

Description | Display
--- | ---
Stand by | Purging Cycle
CH request | Central Heating Post Circulation
DHW request | DHW Circuit Post Circulation
DHW setpoint | DHW Operation Set displayed
DHW operation | DHW Operation Active
CH heating | CH Heating Operation Active
CH heating setpoint | CH Heating Operation Set

Table 3 - Time and Temperature Relationship in Scalds

<table>
<thead>
<tr>
<th>Temperature (°F)</th>
<th>Approximate Time (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>120°F</td>
<td>More than 5 minutes</td>
</tr>
<tr>
<td>125°F</td>
<td>1 1/2 to 2 minutes</td>
</tr>
<tr>
<td>130°F</td>
<td>About 30 seconds</td>
</tr>
<tr>
<td>135°F</td>
<td>About 10 seconds</td>
</tr>
<tr>
<td>140°F</td>
<td>Less than 5 seconds</td>
</tr>
<tr>
<td>145°F</td>
<td>Less than 3 seconds</td>
</tr>
<tr>
<td>150°F</td>
<td>About 1/2 seconds</td>
</tr>
<tr>
<td>155°F</td>
<td>About 1 second</td>
</tr>
</tbody>
</table>

NOTE TO CONSUMER: PLEASE KEEP ALL INSTRUCTIONS FOR FUTURE REFERENCE.
**Part 3 - Quickly Engage / Disengage Automatic Temperature Control (AUTO)**

The Automatic Temperature Control (AUTO) function allows the boiler to automatically adjust the target temperature of each heating zone to adapt to outdoor and indoor temperature conditions and/or heat demand cycles. To quickly activate AUTO, press the AUTO button on the control panel, or set parameter 2.2.4 = 1 via the technical menu.

**NOTE:** Automatic Temperature Control is only possible when the AUTO function is turned ON. Then select the type of Temperature Control via parameters 4.2.1 (Zone 1), 5.2.1 (Zone 2), or 6.2.1 (Zone 3). The default setting for each zone is 3 - Outdoor Temp. Reset.

**Part 4 - Quickly Engage / Disengage the Comfort Function (Combi Models ONLY)**

Actuating the COMFORT function keeps the DHW heat exchanger temperature warm when a DHW demand is not active. This reduces the amount of time it takes for the combi boiler to heat up. COMFORT will display when this function is active. To quickly activate the Comfort function press the COMFORT button on the control panel.

**Part 5 - Quickly Initiate Test Mode**

**TEST** Mode can also be activated by pressing the Reset button for 10 seconds. Test Mode deactivates after 30 minutes or by pressing Reset. See Figure 7.

**WARNING!** When the Test Function is activated the temperature of the water coming out of the boiler may be more than 150°F.

**Part 6 - Accessing and Navigating the Technical Menu**

To access advanced setup and troubleshooting parameters, it is necessary to enter the Technical Menu. The Technical Menu includes a number of Quick Access Menus which allow easy access to commonly used parameters. Proceed as follows to access the Technical Menu.

1. Simultaneously press the "V" and "/>" buttons for 5 seconds.
2. The display shows 222.
3. Press the "a" button to select 23A, the service code.
4. Press the OK button. The display shows the first quick setting "PCB”. Use the "/>" and "<" buttons to scroll through the Quick Access Menu options.

From the Quick Access Menus “DHW” and “CH1”, set the following parameters to match your application:

<table>
<thead>
<tr>
<th>Quick Access Menu Options</th>
<th>Value</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB</td>
<td>PCB Replacement</td>
<td>PCB Replacement</td>
</tr>
<tr>
<td>ERR</td>
<td>Error History</td>
<td>Error History</td>
</tr>
<tr>
<td>MENU</td>
<td>Complete Menu</td>
<td>Complete Menu</td>
</tr>
<tr>
<td>DHW</td>
<td>DHW Settings</td>
<td>DHW Settings</td>
</tr>
<tr>
<td>CH1</td>
<td>Heating Zone 1 Settings</td>
<td>Heating Zone 1 Settings</td>
</tr>
<tr>
<td>CH2</td>
<td>Heating Zone 2 Settings</td>
<td>Heating Zone 2 Settings</td>
</tr>
<tr>
<td>CH3</td>
<td>Heating Zone 3 Settings</td>
<td>Heating Zone 3 Settings</td>
</tr>
<tr>
<td>MODE</td>
<td>DHW / CH / Both</td>
<td>DHW / CH / Both</td>
</tr>
<tr>
<td>BMS</td>
<td>0-10V / 4-20mA Clip In</td>
<td>0-10V / 4-20mA Clip In</td>
</tr>
</tbody>
</table>

**Quick Access Menu Options**

**DHW**

- **Parameter**: Parameter 2.2.8
- **Description**: DHW Mode
- **Value**: 0 = All Comb (WCN) Models
- **Default**: WCN = 0

**CH1**

- **Parameter**: Parameter 4.2.5
- **Description**: Maximum Temperature Setting
- **Value**: 68-122°F (when 4.2.0 = 0)
- **Default**: 120 (HT)

**Min. Temperature Setting**

- **Parameter**: Parameter 4.2.6
- **Description**: Minimum Temperature Setting
- **Value**: 68-122°F (when 4.2.0 = 0)
- **Default**: 80 (LT)

When the display shows the Quick Access Menu you want to enter, press the OK button.

6. Use the "/>" and "<" buttons to navigate through the parameters within the selected Quick Access Menu.

7. With the display showing the parameter you want to adjust, press the OK button to access the parameter setting.

8. Use the "/>" and "<" buttons to modify the setting.

9. With the parameter set to the desired value, press OK to save and return to the given Quick Access Menu. To exit without saving, press the "/>" button.

10. Press the "/>" button to return to the previous menu level.

11. Navigate to another Quick Access Menu, or press the "/>" button until the normal display screen is restored to exit the Technical Menu.

**NOTICE**

See installation manual for the full list of appliance parameters.