

OPERATION GUIDE

3008 ADVANCED CONTROL PANEL | 40 EA Water Heater

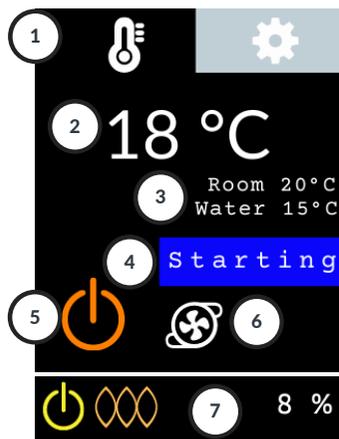
Please Refer to Manual for Full Operation and Maintenance Instructions at wallas.com



Select Button

Left Arrow
Move cursor left or up

Right Arrow
Move cursor right or down



Digital Panel Legend

- ① Main Menu Bar
 - Room Heating Mode
 - Settings
 - Temp Sensor
 - Device Info
 - Device Stats
 - Clear Lock
 - Temp Unit (C°/F°)
 - Connections
 - Altitude
- ② Target Room Temperature
- ③ Room / Water Temperature
- ④ Heater Status
- ⑤ Start/Stop Icon
- ⑥ Second Water Pump Icon
- ⑦ Info Bar
 - Power On/Off
 - Combustion
 - Info
 - Lock
 - Heater power %

SET OPERATION MODE

Room Heating Mode: 40 EA can be started in one mode (Room Heating Mode), regardless if the unit has been installed for water boiler heating or for room heating. If the heater is used solely for heating domestic water, only On/Off features are needed. If the heater is used for floor or radiator heating, a target room temperature (C°/F°) can be set in the thermostat.

Prior to starting the heater, choose mode by using the **Arrow Buttons** (left or right) to move the orange selection square to the **Main Menu Bar**, press **Select Button** to activate the Main Menu Bar, use **Arrow Buttons** to choose the **Room Heating Mode** and press the **Select Button** to select.



IGNITION

To start, use the **Arrow Buttons** (left or right) to move the orange selection square to the white **Start/Stop Icon** and press the **Select Button**. Confirm the selection by holding the **Select Button** down for 3 seconds (safety feature). White icon turns orange.

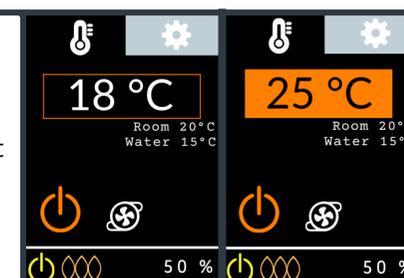


Starting will appear on the screen. The light orange combustion light will light up when the burner flame has been ignited and the combustion has stabilized (in about 5 min). Heater will be fully operational about 10 min later.

WATER PUMP #1 CONTROL

If the water pump #1 is used solely for heating domestic water, only On/Off features are needed. Heater maintains a steady temperature of 70 C°/158 F° in the hot water boiler automatically. When the water pump #1 is used also for radiator heating, a target room temperature can be set in the thermostat. Room temperature is measured with a wireless sensor, which is placed in the desired location.

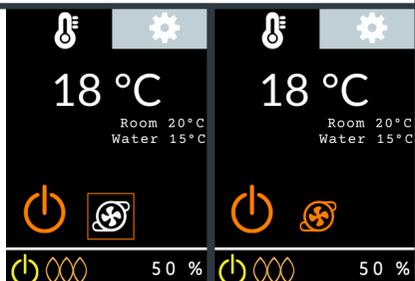
Move the selection square to the **Target Room Temperature** and press the **Select Button**. Press **Arrow Buttons** (left or right) to set the desired temperature.



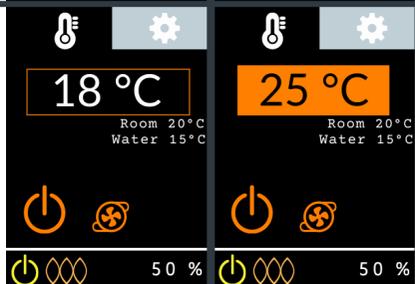
WATER PUMP #2 CONTROL

Water pump #2 is intended for floor heating and therefore operates with more powerful flow, sufficient to provide heat transfer fluid circulation in the heating pipes underneath the flooring.

Move the selection square to the **Pump #2 Icon** and press the **Select Button**. Pump #2 is now activated and the icon turns orange.



Move the selection square to the **Target Room Temperature** and press the **Select Button**. Use **Arrow Buttons** to set the desired temperature.



SHUTDOWN

Press and hold the **Select Button** down for more than 4 seconds.

Stopping will appear and the Power Icon light will change to white indicating the unit is off.



Alternatively, the unit can be shut down by moving the selection square to the **Start/Stop Icon** and pressing the **Select Button** once, then holding it down again for 3 seconds to confirm. The unit will shut down.

IMPORTANT TO NOTE

UNIT FORMS PRESSURE

40 EA heats water with heat transfer fluid circulation. Fluid must be either

- Glycols + water mixture or
- Dowcal 200 (propylene glycol-based heat transfer fluid) + water mixture

Water pumps form pressure, which circulates the fluid inside the unit and in heating pipes. It is very important to not let the unit reach excessive pressure. Therefore, **an open expansion tank must be used at all times**. Also, a 1.5 Bar overpressure valve should be installed in the system.

PROPER DRAINAGE IS NECESSARY

To avoid all damage from flooding, there must be proper drainage in the space where unit and water boiler are installed. Also, the expansion tank overflow pipe should lead to the floor drain. Drainage must be checked before use.

WATER PUMPS OPERATE AUTOMATICALLY

Pumps are thermostatically controlled to maintain a target temperature. When the target room temperature is set higher than the current room temperature, the pump is running continuously until the target temperature is reached. To maintain the temperature, the pump runs with intervals of 10 seconds ON and 5-90 seconds OFF.

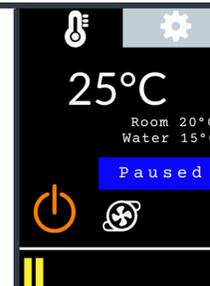
PAUSE MODE

(SAFETY FEATURE)

Pause Mode automatically turns the burner off if the water temperature rises above 82 C°/ 180 F°. The unit will start heating again when the water temperature drops to 55 C°/130 F°. It will attempt to maintain a steady 70 C°/158 F° degrees.

If the heater is in Pause Mode, *Paused* and a **Pause Icon** will appear on the screen.

Heater will re-start heating again automatically.



LOCK

(SAFETY FEATURE)

If a **Lock Icon** is displayed, the heater has locked itself for safety. The heater will also lock after 2 unsuccessful starts. Move the selection square to the **Exclamation Point Icon** and press the **Select Button**. An Error Page will appear.



If the heater has locked itself, there may have been a failure that should be investigated and resolved prior to further use. The error page will display a check list and a website for further information. If you need help, reach out to a professional.



To remove the lock, press any button to return to the main display. Move the selection square to the **Main Menu Bar** and press the **Select Button**, choose **Settings**, and press the **Select Button**. Choose **Clear Lock** from the Settings Menu and press the **Select Button**.

