3008 ADVANCED CONTROL PANEL



SMART | Temperature Control

3008 Advanced Control Panel

ADVANCED CONTROL PANEL FOR VIKING COMBI INSTALLATION, OPERATION, AND SERVICE INSTURCTIONS



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Control Panel Installation

3008 Control Panel cable can be assembled as a surface mount or behind wall.

Surface mount, cable visible Cable hidden behind the wall Install assembly plate to flat surface. min. 15 mm Pre-drill 3 pcs*1 mm holes for assembly plate Free space for assembly 35 95 mm 36 mm Optional: Make 12mm hole for cable if cable is installed inside wall. 1) Install the mounting plate and mark places for the 1) Install the mounting plate and mark places for the screws. Pre-drill 3*1 mm holes for screws. screws. Pre-drill 3*1 mm holes for screws. 2) Cut the cable opening in bottom of the panel. 2) Drill 12 mm hole for the cable. Draw and check hole 3) Install the mounting plate. location before drilling, it should not be visible when 4) Slide the panel in place from the top down. panel is mounted. 3) Install the mounting plate. 5) Remove the display protection tape. 4) Slide the panel in place top-down. 5) Remove the display protection tape.



Cable connection

Please note that cable connector release pin is positioned as in the picture, when connecting cable into panel. (Soft "click" sound can be heard when cable is connected.)



Cable release

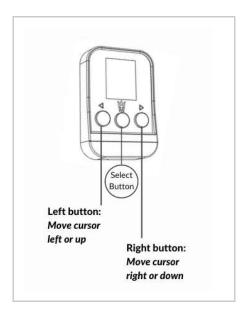
Press connector release clip (shown in the picture) before pulling the cable out.



3008 Control Panel basic features Combi

Advanced Control Panel

Before using the Control Panel ensure it is assembled correctly with the assembly plate (see assembly instructions from sales package) and connected to the Wallas unit. This manual refers to Control panel SW 1.2.75. and heater SW 1.6.64

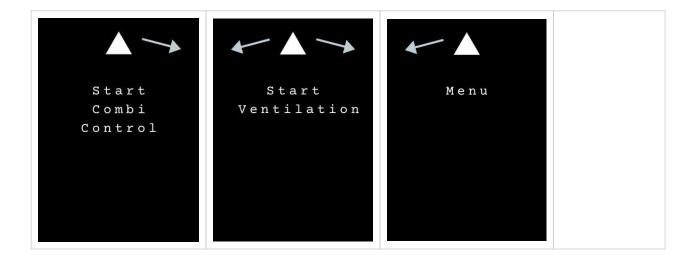


Starting the heater for the first time after power connected or reconnect

Panel will display black & white intro menu.

Before starting, choose the operation mode using the right and left buttons; Combi Control Thermostatic Mode or Ventilation Mode.

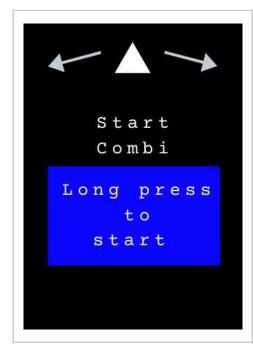
Use the arrow buttons to choose the mode you want and press the Select Button.

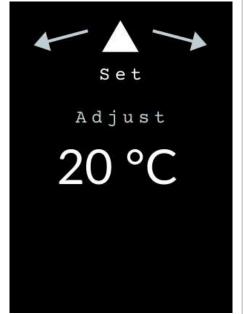


Once running in any mode, the system must be shut down completely before changing to another mode.



Starting the heater for the first time after power is restored





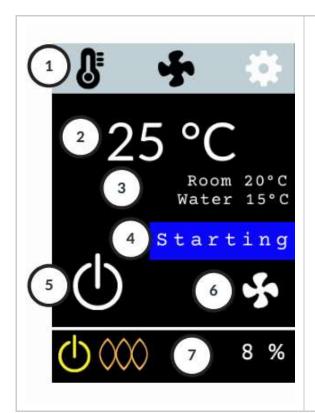
If Combi Thermostatic Mode is chosen, press and hold the Select Button for 3 seconds to start the heater (safety feature).

Use **Arrow Buttons** to set the desired temperature and press the **Select Button**. Main panel display will appear.

Note: Wallas unit should start heating at about 5 minutes of running, while comleting the starting process takes approximately 12 minutes.

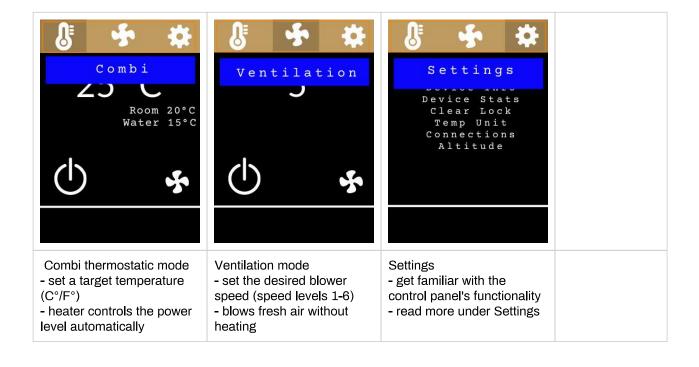


Digital Panel Legend:



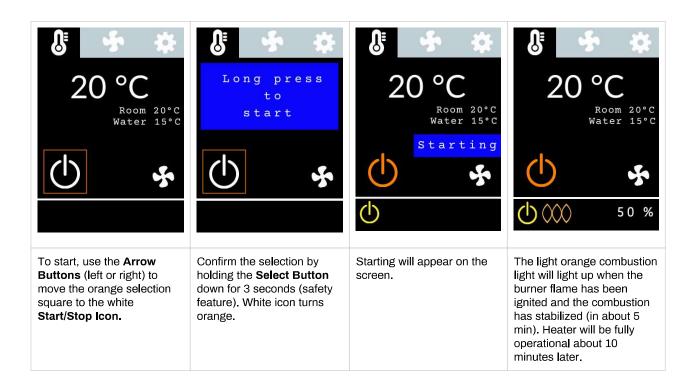
- 1 Main Menu Bar
- 2 Target Temperature or Blower Speed
- 3 Room Temperature / Water Temperature (C of F available)
- 4 Heater Status
- 5 Start/Stop Icon (white Icon Off, orange Icon On)
- 6 Air Boost Icon
- 7 Info Bar: Power On/Off, Combustion, Info, Lock, Heater power %

Operation modes (Main Menu Bar)

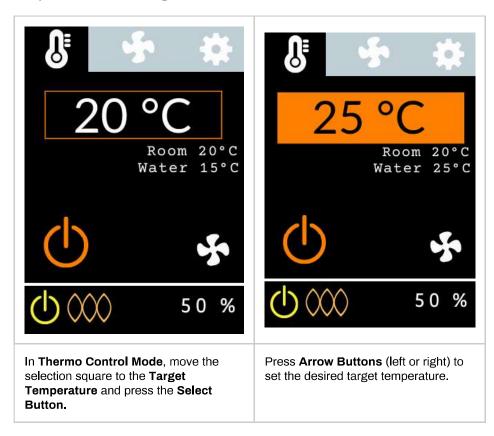




Ignition



Temperature/Power setting

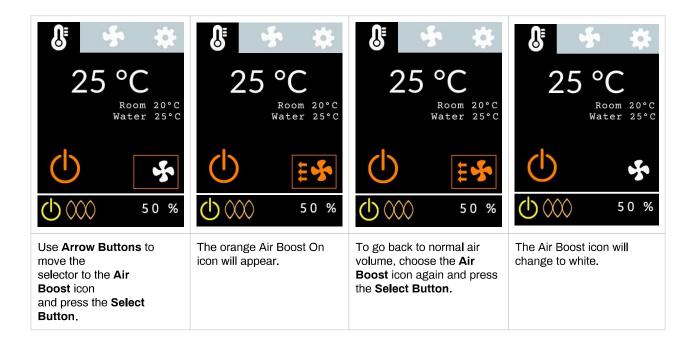


Viking Combi is primarily an air heater - water is heated simultaneously as a convenient by-product. Power distribution is approximately 50-90 % for air heating and 10-40 % for water heating. Water temperature cannot be controlled separately.



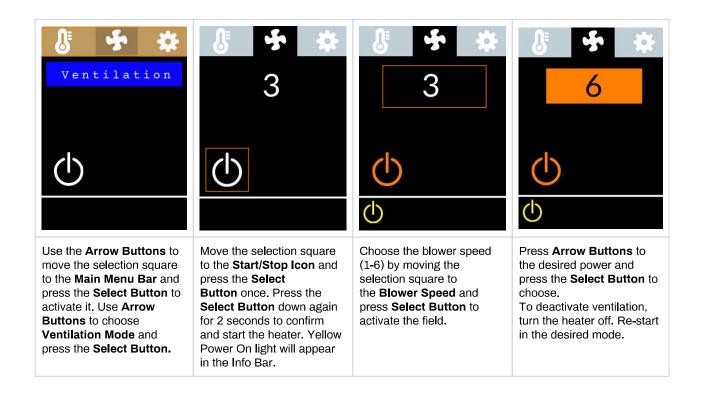
Air Boost

The Air Boost feature maximizes the air volume for quick defrosting and drying, but does not change the set temperature, power level of fuel rate. Air Boost can be activated in Combi Thermostatic Mode, when the system is heating.



Ventilation mode

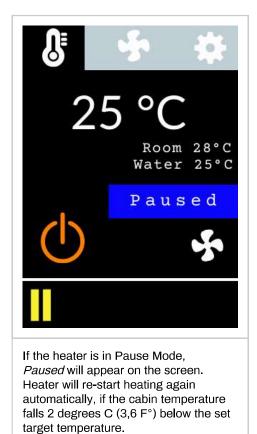
Ventilation Mode blows fresh air without heating at 6 blower speeds. Choose Ventilation Mode prior to starting the device.



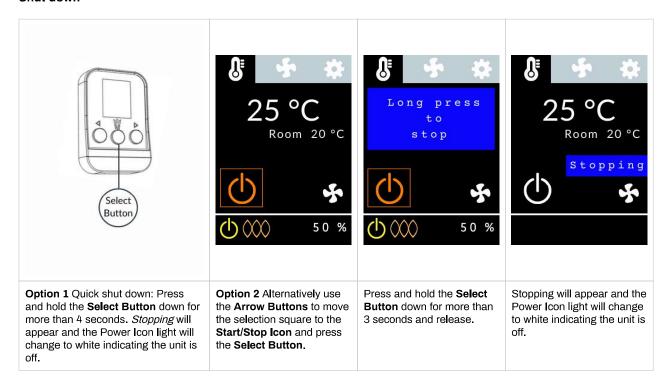


Pause Mode (in Combi Thermostatic Mode only)

Pause Mode automatically turns the heater off if the temperature remains +2 C° (3,6 F°) above the set level for 1/2 hour due to local ambient conditions. Pause Mode can be delayed temporarily by slightly increasing the target temperature. Power can be turned on by increasing the target temperature in the Pause Mode.



Shut down

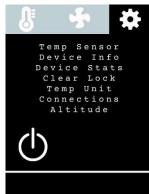


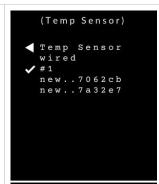
Note: The system mode that was used last upon shutdown will be the same mode when the heater is turned on again.

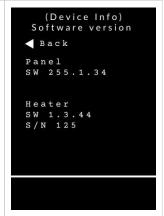


Settings:









Move the selection square to the Main Menu Bar and press the Select Button. Use the Arrow Buttons to choose Settings. Press the Select Button. Use the Arrow Buttons to move the selection square down and press the Select Button to choose.

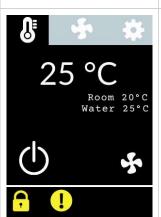
Temp Sensor

- Choose the desired sensor to measure the indoor temperature with.
- Wired is the hardwired sensor in the heater unit
- Wireless sensors are listed by sensor numbers
- When a wireless sensor is selected, it gets a running number ID

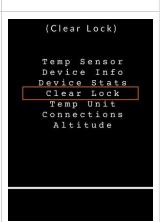
Device Info

- Control panel and heater software versions (needed for customer service/tech help)
- Heater unit serial number (needed for customer service/tech help)









Device Stats

- Check there is enough voltage to start the unit (must have at least 10 V)
- Check usage hours (units must be serviced every 2000 hours/3 years)
- System starts
- Pump cycles since new
- Previous error code

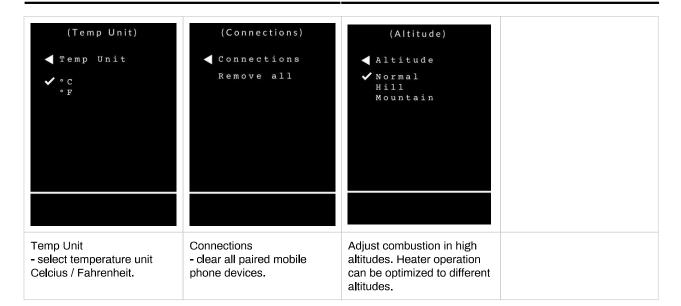
If a Lock Icon is displayed, the heater has locked itself for safety. The heater will also lock after 3 unsuccessful starts. Move the selection square to the Exclamation Point Icon and press the Select Button. An error Page will appear.

If the heater has locked itself, there may have been a failure that should be investigated and resolved prior to futher 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, 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.





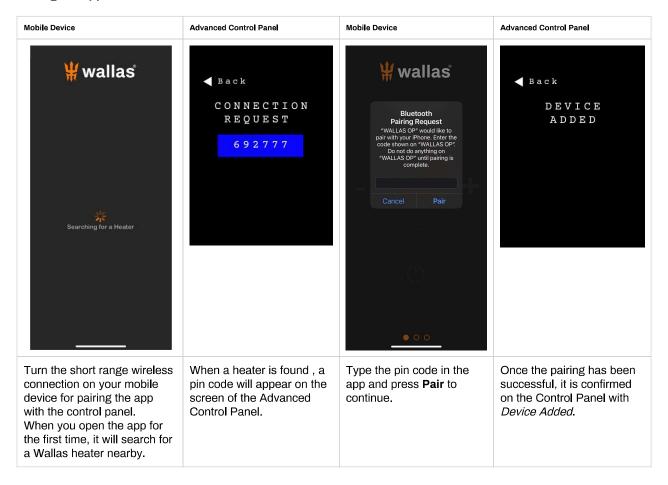


Wallas Remote application and Control Panel connection for Combi

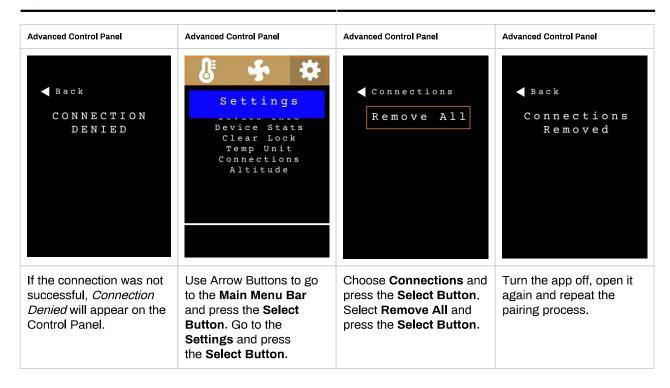
Local Connection

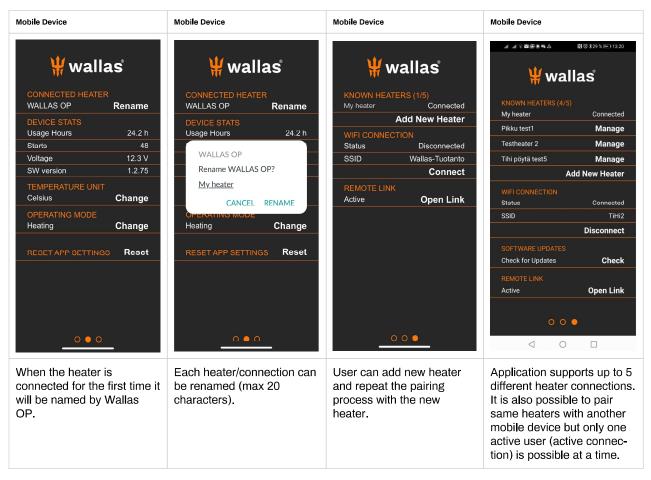
Advanced Control Panel can be connected into the mobile application with local connection. You can then operate your heater with the "Wallas Remote" application. First, download the "Wallas Remote" application to your mobile device from your application store.

Pairing the app with the heater

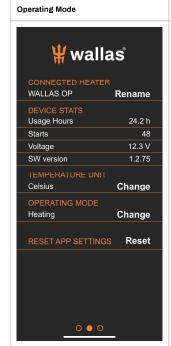














Ignition



Temperature



Air Boost

Heater can be started remotely in two modes:

Heating/Thermo Control:

Set a target room temperature C°/F°

Ventilation: Blow fresh air without heating Prior to starting the heater, choose mode by swiping the screen to the 2nd page and tap Change under Operating Mode to set the desired mode (Heating or Ventilation).

Due to safety, heater cannot be sarted remotely in Manual Mode.

To switch between the modes, turn the heater off and start in the desired mode.

Press and hold the **Start/Stop Icon** down for 2 seconds to start the heater.

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

Heater starts in Thermo Control Mode.

In Heating/Thermo Control Mode the thermostat can be set to a target room temperature.

Press the **Minus** or **Plus Icons** to adjust the temperature to the desired level.

Air Boost maximizes the air volume for quick defrosting and drying, but does not change the set temperature.

While the system is heating, press the **Air Boost Icon** until the orange Air Boost light appears.

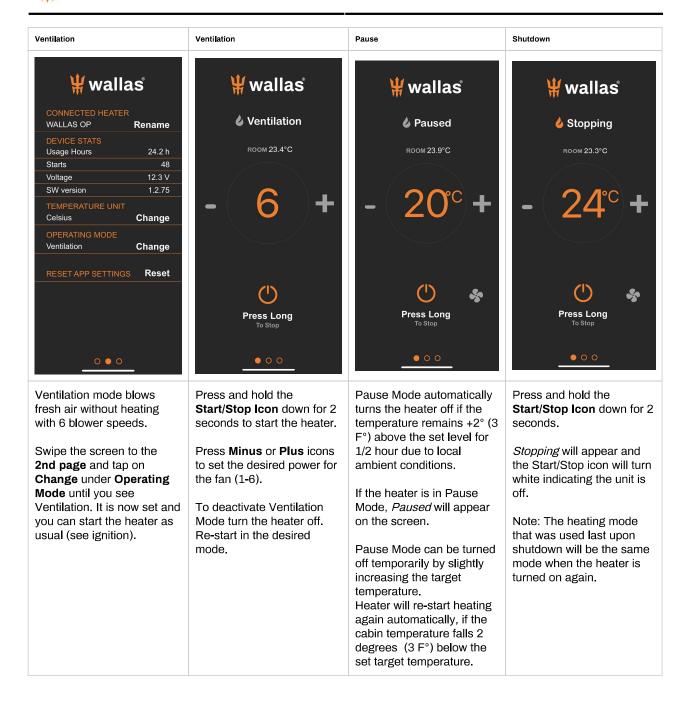
To go back to normal air

volume, press the Air

Boost Icon again. The light will turn off.

Be aware that when running in Air Boost mode, the system amperage draw will be quite high, so use it with care if DC power is limited.





WiFi Connection

The 3008 Control panel can be connected to the internet with a WiFi connection.

You can then operate your heater with the " Wallas Remote" application through the Internet.

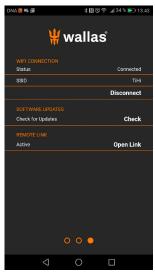
Wifi connection is created through the Wallas Remote application. (Local connection between application and Control Panel must be available before setup)

The first time selecting Connect, the application will ask for SSID and Password. Application will share this information with Control Panel.

NOTE! If you sell your heater or give it away, you need to clear WiFi settings. (SSID="empty", password="empty") and you should remove the Wallas application from your device.









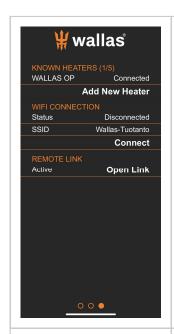


Feed your internet connection details.

When internet connection is finalized status will be "connected". After few minutes " REMOTE LINK" will appear "REMOTE LINK" display will connect to internet panel. You can:

- set room temperature target
- start /stop your heater Note: heater start and stop takes several minutes.

You can see when heater was last connected into internet, and what the heater state is.
You can see some statistics of your heater.
Available graphs will vary depending of your heater model.





When you start application and heater is not in range you can operate heater by opening the "Remote Link".

Note! Before you can operate heater, you need to read safety warnings and agree.

Wallas-Marin reserves the right to develop usability and features of the application.



Connections tips:

- 1. Read from your mobile device user guide how connections and WiFi connections are managed in your device.
- 2. Make sure that local connections and WiFi are allowed in you mobile device (airplane mode is OFF).
- 3. Your mobile device is not in power save mode and location permission is given to Wallas application.
- 4. Check that heater is connected to power and Control panel is connected via cable to the heater.
- 5. Distance between Mobile device and Control Panel is not too long.
- 6. Control Panel is not in use by another person. Only one local connection is possible at a time.
- 7. If your mobile device already has connection to the heater it can not create new connection before the old connection is removed from your device. In some phone models this has to be made manually. Remove "WALLAS OP" from your phones paired short range wireless connection devices list (note there might be several OP pairings in mobile device list, remove all) and restart short range wireless connection before new pairing is possible. This may be the case if control panel pairing code only blinks fast and your mobile device is repeating the connection requests.
- 8. Change connection to other Wallas heater.
 - Close Wallas remote application.
 - Remove old connections from your mobile device short range wireless connection paired devices list. Restart your devices short range wireless connection.
 - If there is no other users for new Wallas heater you can select Control panel menu Settings/Connections/Remove all.
 - Restart application.
 - When/if "Change Device" link appears (30-60 sec) press the link.
 - Wait connection procedure to finalize.
- 9. In some phone models Pairing request will open in background info window. (See your mobile devices user guide.)



Software update

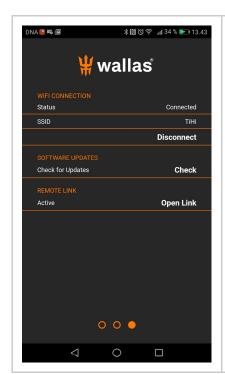
It is recommended to check software updates and perform software updating regularly to ensure optimal heater performance.

Before updating the software:

- check that the heater and the cell phone have sufficient level of power in battery
- · check that the WiFi signal is strong and the internet connection is reliable
- be prepared to disconnect control panel cable, or heater power to make master reset to the system if necessary

Software update is a complex process, and errors may happen if there is a power or network failure during the update, including complete system failure.

Therefore it is forbidden to start software update for control panel if the Wallas heater is the only heat source and being unable to start heater would create a danger.



For software update make sure that

- WiFi signal is strong and the internet connection is reliable
- WiFi HotSpot name (SSID) is visible in application page and the status is "Connected"
- the heater is "OFF" before starting the update Updating may take up to 6 minutes, depending on network and connection.

If new software version is available *Update link* will appear on the screen. Select update.

Do not close application or heater power while update is ongoing. Control panel display will close and start a few times during the update. After the update is done, control panel will start and application will reconnect to panel.

Note: In some phone models you may have to do the pairing again after software update.

Possible problems/errors:

If the software update is not successful

• if File error message appears, start update again after few minutes

If the software update stops during download

- close the application
- · restart the short-range wireless connection from your mobile device
- · start update again
- Tip! find different location, where WiFi signal is better or WiFi hotspot has a better connection

If control panel is jammed during update:

• disconnect panel cable and try again after few minutes



Error Codes

Possible error codes are listed on the table below.

Combined Code	Error message	Problem	Troubleshooting
10A06	Ignition failed	Ignition failed, maximum allowed number of pump pulses	Check the fuel, check the fuel filter, tighten all joints.
1020B	Low voltage	Supply voltage is below minimum	Renew/charge the battery.
10001	System error		Contact service
10003	System error		Contact service
10201	System error	Unexpected flame-out	Check the fuel level, check the fuel filter.
10206	Ignition failed	Preheating failed, residual fuel burning for too long	Try to start again, if same fault, contact service.
20005	System error		Contact service
20A0207	System error	Water thermostat is missing water temperature data	Contact service
20B0205	System error	Analog control (potentiometer) is missing	Connect the controller, check control panel wiring.
203020A	Ignition failed	No fuel was detected, maximum allowed number of pump pulses	Check the fuel, check the fuel filter, tighten all joints.
2010204	Combustion fan	Burner fan is not working (no tachometer signal)	Contact service
2020204	System error	Ventilation fan is not working (no tachometer signal)	Contact service
2030204	System error	Fuel pump output short-circuit	Fuelpump wires are in shortcut, check the wiring.
2030205	System error	Fuel pump not connected (no current detected on output)	Fuel pump is missing, connect fuel pump connector.
2040205	Water pump	Water pump is missing (no load on output)	Connect the waterpump connector.
2050204	System error	Burner or ventilation fan power short-circuit	Contact service
2060204	Glow plug	Glow plug short-circuit	Renew the glow plug.



2060205	Glow plug	Glow plug missing (no current detected on output)	Renew the glow plug, check that the glow plug connector is connected to the ECU.
2070005	System error		Contact service
2080001	System error		Contact service
2080006	System error		Contact service
2080008	System error		Contact service
2080208	System error		Contact service
3000007	Burner temp sensor	Burner temperature is missing/invalid	Contact service
3010007	Air temp sensor	Air temperature is missing/invalid	Connect air temperature sensor.
3010202	Air overheat	Air temperature is too high	Check air vent's and warm air hoses for blockages.
3020007	Water temp sensor	Water temperature is missing/invalid	Contact service
3020202	Water overheat	Water temperature is too high	Water is not circulate, bleed the air out of the system, check the waterpump.
50001	System error	CAN bus other errors	Contact service
50006	System error	CAN bus timeout error	Contact service
50008	System error	CAN bus busy error	Contact service
7020B	Low voltage	Cannot start, low voltage	Renew/charge the battery
7020C	System error	Cannot start, device locked	Open locking mode from the control panel, check control panel user manual.
7020D	System error	Cannot start, enable input not asserted	Enable wire is missing, connect the enable wire or set the main power ON
7020E	System error	Cannot start, burner temperature missing or too high	Powercut during the operation, Wait that unit cools down and try to start again.