

Hot Domestic Water (HDW) pump controller **AURATON 1107**

Congratulations on your purchase of the AURATON 1107 controller. Our device will save you energy and ensure thermal comfort for many years.

Before you start using the controller, please read this instruction carefully.

1. APPLICATION

AURATON 1107 is intended for automatically switching on and off circulation pumps depending on the temperature.

In hot domestic water (HDW) systems, the controller-pump assembly forces circulation of water in HDW systems with coal-fired and gas-fired boilers without systems controlling the operation of the pump. The controller's sensor measures the water temperature in the HDW tank.

In HDW systems, the controller maintains constant temperature of water in the tank or in the HDW circuit.

The range of settings for the HDW pumps is from 20°C to 80°C. The hysteresis (difference between the temperature at which the device is switched on and off) is equal to 4°C.

The **GUARD** system installed in the **AURATON 1107** controller prevents seizure of the rotor of unused pump.

If the pump is not used for a long time, the built-in processor starts the pump automatically for 30 seconds every 14 days.

NOTE: In order for the system to work after a long period of non-use, the AURATON 1107 controller must be switched on at all times.

2. INSTALLATION

2.1. Mounting the controller.

- The controller must be mounted on a wall or another support using two screws (the concrete anchors with screws are delivered with the controller).
- The cables extending from the controller must be fixed to the wall.

2.2. Mounting the sensor.

- Install the sensor in the HDW tank.

NOTE: The sensor must not be immersed in liquids or installed at flue gas outlets to the stack.

2.3. Connecting the power supply cable to the pump.

- Connect the yellow or yellow-green conductor (ground or protective neutral grounding) to the (\perp) terminal.
- Connect the blue wire to the (**N**) terminal.
- Connect the brown wire to the (**L**) terminal.

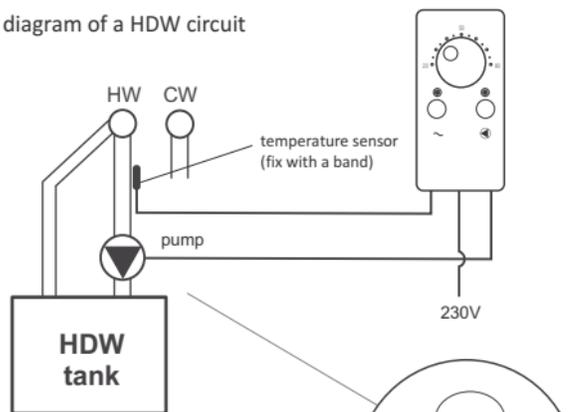
2.4. Checking the connection.

- Check if the wire is connected properly and fix the lid of the terminal box to the pump's motor with screws.

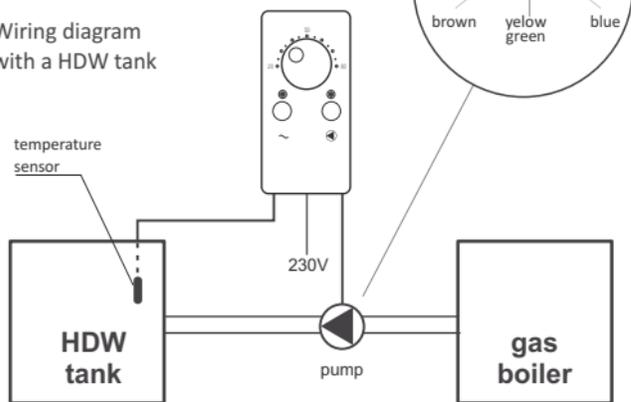
2.5. Connecting the controller.

- After the wires are secured to prevent accidental pulling, **connect the power supply cable to a 230 V/50 Hz power outlet with a grounding pin. The ambient temperature in the place where the controller is installed must not exceed 40°C.**

Wiring diagram of a HDW circuit



Wiring diagram with a HDW tank



3. OPERATION OF THE CONTROLLER

3.1. Switching the controller on

- Press the button marked as (~).
- The red diode will lit up.

3.2. Automatic operation.

- If the green diode is not lit, the controller switches the pump on/off depending on the temperature set on the controller's knob.
- The pump is switched on (green diode blinks) when the setting temperature is maintained. The controller switches the HDW pump off if the temperature measured by the sensor exceeds the preset temperature value by 2°C and switches the pump on if the temperature drops below the preset value by 2°C.

NOTE:

If the temperature measured by the sensor exceeds 90°C, the HDW pump is switched off. This prevents excessive heating of the water in the tank.

3.3. Continuous operation.

- Press the button marked as (~) and then the (◀) button (the red diode and the green diode are lit).
- The pump continues to work regardless of the temperature preset on the controller and the actual temperature in the location of the sensor.

4. TECHNICAL DATA

Temperature control range	20 – 80°C
Hysteresis (on/off temperature difference)	4°C
Power supply voltage	230V AC
Maximum load	6A

Cleaning and maintenance

- The outside of the controller must be cleaned with a clean cloth. Do not use solvents (such as benzene, thinners, or alcohol).
- Do not touch the device with wet hands. This can lead to electric shock or serious damage to the device.
- No not expose the device to excessive impact of smoke or dust.
- Avoid contact of the device with liquids and moisture.

Disposal of the device



The device is marked with a symbol of a crossed waste bin. Pursuant to European Directive 2002/96/EC and to the Act on waste electrical and electronic equipment, such mark indicates that the device, at the end of its service life, must not be disposed off together with other household waste.

The user is required to deliver it to a waste electrical and electronic equipment collection point.