

# Controller CS-12

## **How it works.**

The controller CS-12 is steering the hot tap water pump (C.W.U.). The hot tap water pump operates on the basis of temperature differences. The switching on of hot tap water pump occurs when the boiler's temperature exceeds the temperature of the tray by the hysteresis set by the user. Hot tap water pump working until the temperature of the boiler and storage tank are aligned or when the set tank temperature is reached.

## **Switching the pump for continuous operation.**

Holding down the key □ and Δ at the same time will activate the hot water pump for continuous operation. The pump will work until the user manually switches it off, by holding down the key □ and Δ.

Preview tank temperature is possible by pressing a key △ and after a few seconds the controller will return to display the boiler's temperature.

## **How to use it.**

The temperature of hot water pump (C.W.U) and hysteresis can be changed by pressing the key □ (the entrance to the menu's options), the display should show a flashing letter U, or H and at this moment you can change the desired temperatures by using buttons Δ and ▽. After a few seconds, the controller automatically enter the mode and will display the current oven's temperature.

## **Hysteresis.**

This function is used to set the temperature difference (the oven and heat storage) beyond which activates the pump. This prevents the constant switching on and off of hot water pump.

## **Alarm.**

The controller is equipped with an audible alarm to indicate too high a temperature (above 90° C) on the boiler.

The controller's functions.

U- Maximum storage tank temperature

H- hysteresis of hot tap water pump (C.W.U)

## **Installation instructions**

The installation should be done by the person having the proper electrical qualifications. The sensor should be placed at the exit of the boiler by the wire-tie and isolated from the external factors by the isolation tape (it cannot be immersed in any liquid). The power cord for the pump should be connected in the following way: blue-brown- 230V, yellow Green (protective) should be connected to the ground. The controller Has the thermal security which should be installed together with the central heating sensor. This is the additional security which in case of the failure of the controller, at 90 °C, cuts off the power supply to the blower.



## **Information concerning disposal of electrical and electronic appliances**

The symbol shown above placed on the products or the enclosed documentation informs that the faulty electrical or electronic appliances cannot be thrown away together with the

domestic waste. The correct way in case of disposal, reuse or recycling of actuators is to give the appliance to the specialized waste collecting centers, where it will be taken free of charge. In some countries you may give your product away to the local distributor while buying another appliance. The correct utilization of the appliance enables preventing the precious resources and avoiding the negative impact on health and environment, which may be endangered by the improper conduct with the waste. You can get the specific information concerning the nearest collection point at the local authorities. The incorrect utilization of waste is subject to penalty provided in the appropriate local provisions.

**Guarantee**

The producer ensures the buyer that the product will work faultlessly for 24 months since the date of sale. The guarantor promises to repair the appliance, if the failures occurred due to his fault. The appliance should be delivered to the place where it was bought, enclosing this guarantee with the confirmed date of purchase. All the expenses connected with it will be due to the user. The guarantee does not cover the failures caused as a result of lightning strikes Or short circuits. The guarantee for the sold commodity does not exclude, restrict nor suspend the rights of the buyer resulting from the inconsistency of the commodity with the agreement.

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producer

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date of sale