

Controller CS-77C

The main purpose of the controller.

This controller is a dual-function device. Model CS-77C controls two pumps independently.

The main principles of central heating pump.

The task of the controller is to switch on the pump if the temperature exceeds the desired value, and switch it off if the boiler cools down (due to extinction). This prevents unnecessary operation of the pump, which saves electricity (savings, depending on the degree of utilization of the boiler reach even 60%), and extends the life of the pump.

The main principles of the pump II.

In this device we have a possibility to regulate the pump's temperature of switching on and turning it off. The pump after crossing the temperature of switching on (which is sets by the user) -switches on (O), and will turn off when the set temperature exceeds the temperature of switching off sets by the user (U).

How to use it.

The desired temperature of the central heating pump is changed by pressing a key □ in order to entrance menu options, the display should show a flashing letter C, at which point you can change the demanded temperature by using the buttons ◊Δ. By holding down the button □ again, a flashing letter O should be shown on the display and at this moment we set the temperature of the II pump. Another pressing of the button- will be the letter U, and in this option we can set the temperature of switching off (II pump). The temperature's changes we can make by using buttons Δ?. After a few seconds, the controller automatically enter the mode and will display the current temperature of central heating pump(C.O.), the II pump temperature preview we can make by pressing minus or plus ◊Δ, in display mode of current temperature C.O.

Anti- frost function.

An additional security feature is an installed anti-frost function which protects water from freezing. When the temperature drops below 5 ° C the sensor, the heating pump shall be attached permanently.

Anti- stop function.

This increases the reliability of the pump. The controller is equipped with a system to prevent sticking of the pump so called anti- stop function. In about 15 days the pumps are activated for 15 seconds.

Manual work.

In this function, you can check whether the connected pump is efficient, by pressing ◊Δ buttons simultaneously. Pressing the buttons once again will turn off the pump.

Hysteresis.

It is the difference between the temperature of the entry in the cycle of switching on of a controller and the temperature of the return to standby. The controller has a fixed 2 step.

Alarm.

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

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.