ENIX®

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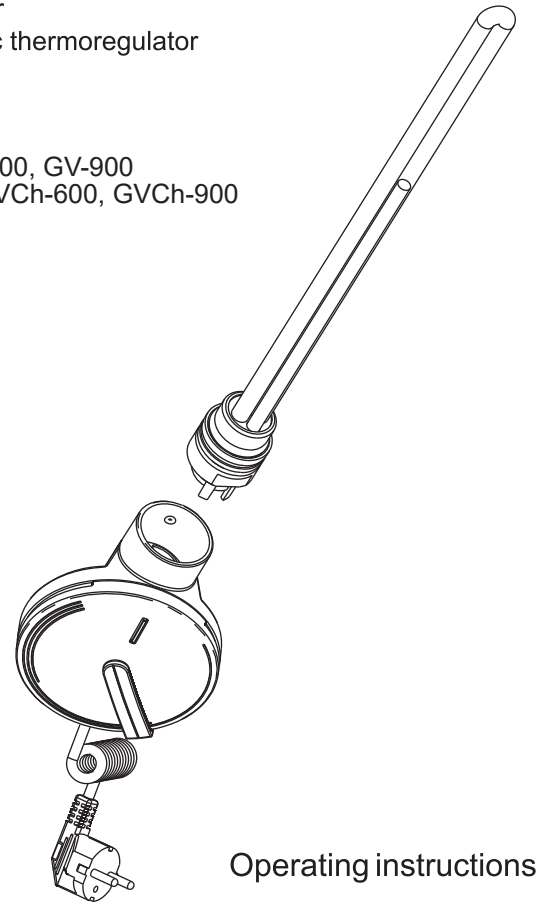
# Electric heater with electronic thermoregulator

GV-300, GV-600, GV-900
GVCh-300, GVCh-600, GVCh-900



## Operating instructions



## SAFETY INSTRUCTION

This instruction contains symbols that have been placed to draw your attention to particularly important information/sections, and, consequently, provide safety. These symbols have the following meaning:

Danger! High voltage!

Attention!

Read carefully.

Do not expose the device to extreme temperatures (below +5°C and above 40°C). It is not allowed to place any objects on the enclosure of the thermoregulator, which would impose extra load (e.g. do not hang clothes on the enclosure).

Should the inseparable feeder cable be damaged, it is to be replaced at the manufacturer's or at a specialist repair centre, or by a qualified technician, in order to avoid any hazard to safety.

## DESIGNATION AND SELECTION OF OPTIMUM SOLUTION

The family of ENIX heaters with a bayonet coupling is characterised by common design and method of installation in bathroom radiators. However, heaters differ as to the implementation of various methods of regulation.

GV GVCh maintains a constant, present temperture of heater, additionally, enables a 2-hours full power operation, regardless of set temperature.

## INTENDED USE AND TERMS OF USE

Electric heater with electronic temperature regulator is intended for heating water inside a bathroom radiator, and through it, drying clothing. It is designed to work with bathroom radiators manufactured by ENIX and by other manufacturers.



## INTENDED USE AND TERMS OF USE CONTD

The heater operates in vertical position. The heater is always installed in one of the bottom connection openings of the radiator.

The GV and GVCh heaters each with rated power of 300 W can be in the radiators with standard heating power Ös exceeds 300 W.

The GV and GVCh heaters each with rated power of 600 W can be in the radiators with standard heating power Ös exceeds 600 W.

The GV and GVCh heaters each with rated power of 900 W can be in the radiators with standard heating power Ös exceeds 900 W.

The standard heating power of the radiator ($\Phi_s$) is specified in the catalogues of manufacturers according to the PN-EN 442 standard for water temperature parameters: $t_z$ = 75°C, $t_p$ = 65°C and air temperature of $t_o$=20°C.

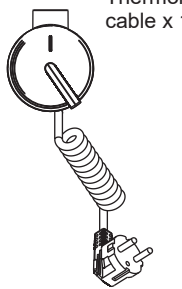
**Never install heaters which heating power exceeds the permissible value!**

**ATTENTION! Electric heaters can work only when the radiators have been completely filled with water.**

**ATTENTION!** All the afore-mentioned conditions must be met at the same time. Failing to comply with the mentioned requirements may result in a hazard to health and property.

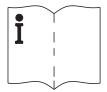
## CONTENTS OF PACKAGE

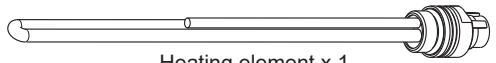
Thermoregulator with cable x 1



Key x 1

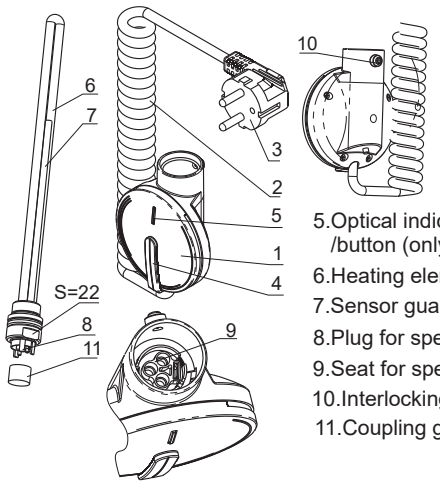
Operating instructions x 1





Heating element x 1

## STRUCTURE




1.Termoregulator enclosure
2.Connection cable
3.Connection plug
4.Control hand-wheel
5.Optical indicator /button (only for GV, GVCh)
6.Heating element
7.Sensor guard
8.Plug for special coupling
9.Seat for special coupling
10.Interlocking screw
11.Coupling guard

## ASSEMBLY

ATTENTION: it is possible to install the radiator with an electric heater in zone III (more than 60cm), exceeding the overall dimensions of a shower or tub (NEVER OVER THE TUB OR INSIDE THE SHOWER CUBICLE!)

**DANGER: do not connect the thermoregulator unit to the mains, before the installation process has been completed!**

Prior to the commencement of installation work, it is required to study this instruction carefully. All actions are to be carried out with care. Do not alter the sequence of installation activities.

1. Use the open-ended spanner no.22 to screw the heating element to the connection opening in the vertical collector of the radiator.



## ASSEMBLY CONTD

Now the radiator can be filled with water. All other assembly activities can be carried out, after having completed all finishing work in the bathroom.

2. Remove the shield (12) from the end of the heating element and slide the regulator completely over the plug of the special coupling (8), thus enabling the fitting of the pins of the plug into the appropriate indentations inside the special seat (9).
3. Determine the position of the enclosure, in relation to the radiator, and lock the enclosure, using a set screw (10).

**Screw tight delicately and carefully without exceeding the maximal torque amounting 0,3 Nm.**

**4. Fill the radiator with water.**

## ACTIVATION AND PRINCIPLE OF OPERATION

**1. ATTENTION! Make sure that the radiator is filled with water.**

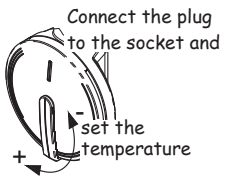
2. If the radiator has been connected to the central heating system in such a way that the supply water (hot water from the boiler) enters the radiator from the top (the connection on the top ferrule on the radiator's collector), close one of the valves on the return/feed line of the radiator.

**ATTENTION! Never close both valves at the same time.**

3. Connect the connection plug (3) to the power outlet that has an earthing bolt. Supply voltage: 230V, 50Hz.

At start-up, the device measures the temperature and activates the heating element, depending on the results of the measurement and comparison with the required temperature.

4. Set expected temperature using the hand-wheel (4).




If the temperature value set by the hand-wheel (4) has been achieved, the heating element is deactivated and the diode (5) turned off.
If the set temperature is higher than the measured temperature, the heating element is activated and the diode (5) lights up in red.



## ACTIVATION AND PRINCIPLE OF OPERATION CONTD

5. **Point 5 refers to the heaters of the GV and GVCh type, exclusively.**
The pressing of the button (5) activates the heater for 2 hours, regardless of the hand-wheel settings. After 2 hours, the heater returns to the normal working mode (see point 4).


The activation of the 2-hour mode is signalled by the flashing of the diode (5).

Repeated pressing and holding of the button for 3 seconds cancels the command.

6. The heater does not require any maintenance or care during operation. Should it be necessary, wipe the device with a damp cloth.

## TECHNICAL PAREMETERS OF HEATERS

| | POWER | OUTPUT |
|---|---|---|
| GV-300, GVCh-300 | 230V ~50Hz | 300W |
| GV-600, GVCh-600 | 230V ~50Hz | 600W |
| GV-900, GVCh-900 | 230V ~50Hz | 900W |

Insulation class: I (requires an earthing circuit), IP54

## ENVIRONMENT PROTECTION

When the working life of the device has expired, do not dispose of it in the same place as other household waste.
The user is obliged to return the device to the collecting centres that collect used-up electronic and electric equipment.

The centres that collect such equipment, including local collecting and municipal centres, constitute the proper system, intended for the collecting of such equipment.

Improper utilisation may result in hazard to the environment and human health.