

### Thermoplush TSR 1x15 heating control unit

#### *Intended use*

The Thermoplush TSR 1x15 heating control unit is a control, operating and power unit in one housing. It is used to control “Thermoplush heating products” with an operating voltage of 230V/50Hz. Any use other than that described above is not permitted and may cause destruction of the control unit or the electrical appliance connected to it! Use in wet-rooms or outside is not permissible.

#### *Safety precautions*

The controller was designed for regulating Thermoplush heating elements with a rated voltage of 230V/50Hz.

Operation at different rated values than those given is not permitted. Also observe the permissible rated current (refer to rating plate). The earthed contact plug (German Schuko plug) must also be protected by using an RCD (residual current device) with a trip current of 30mA maximum. If it can be assumed that safe operation is no longer possible, stop using the appliance!

Do not cover the controller during operation. (Avoid risk from a build-up of heat at the TSR 1x15 unit.)

#### *Disclaimer of liability*

If not used with due care, it may cause damage to property and risk of physical injury as a result. The manufacturer assumes no responsibility or liability for any loss and damage that result from improper operation and incorrect use and maintenance or are related to this in any way. Similarly, we undertake no responsibility for violations of patents or violations of other rights of third parties, which ensue from use of this controller. The manufacturer reserves the right to make changes with regard to the product, technical specifications or the instructions for assembly and for operation without prior notice.

Important: opening of the appliance and operation other than for the intended purpose will lead to voiding of the guarantee.

# P. R. HAVENER

Wärme für Kirchen

## **Operating the controller:**

Once the TSR 1x15 has been plugged in, the control unit is ready to use. Turn the knob clockwise to switch on the heating after it has been plugged in. It is supplied with **maximum power** in the first 15 minutes - the LED light is **yellow**. The numbers on the operating knob show the set power as a percentage. For reasons of safety, the regulating range is limited to between 10% and 70%. After 15 minutes, the control switches over to the selected **operation at reduced power** – the LED light is **green**. (It accepts the power set at the operating knob.)

To switch off the heating while it is connected, simply turn the operating knob anti-clockwise until you hear a 'click'. The LED goes out.

**In order to avoid continuous heating, the controller will cut off automatically after 20 hours for reasons of safety.**

This automatic cut-off time can be altered in the factory upon request (order). In order to reset the automatic cut-off, turn the knob on and off briefly. If the controller is switched off and on again briefly during normal operation (while LED light is green), the heat-up time of 15 minutes is overridden.

Exception: when the controller is unplugged.

## **Possible faults:**

The controller does not appear to be working:

No power supply, check fuse and power to the plug.

The automatic cut-off has turned the appliance off:

restart the controller by turning the knob off and on again.

Display lamp is red:

There is a fault in the electronics: return the appliance to the manufacturer for repairs.

The LED light is flashing (yellow or green):

The appliance is overloaded: check power consumption / observe rating plate.

The appliance is overheating: check the air vents on the appliance / clean with compressed air if necessary.

The heating is cold when connected:

The automatic cut-off has turned the appliance off: restart the controller by turning the knob off and on again.

Power is set too low: when temperatures are very cold, output is probably set too low, e.g. at 10%, and is hardly noticeable. Check the power settings on the controller.

The heating is too hot when connected:

The heating can be adjusted to between 10% and 70% – if cushions are too warm, reduce power by turning the knob.

Technical specifications: operating voltage      230V/50Hz  
maximum output                      1000W at 230V 50Hz  
current load                      4.3 A  
IP rating                                      IP 20  
permissible ambient temperature   -10°C to +25°C  
weight                                      550g