Danfoss

Electronic Solar Heat Regulator
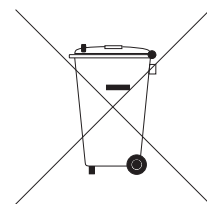## *SH-E01*

Danfoss Heating

User Guide

SH-E01

Electronic Solar Heat Regulator

For a large print version of these instructions please call Marketing on 0845 121 7400.

This product complies with the following EC Directives:
Electro-Magnetic Compatibility Directive.
(EMC) (2004/108/EC)
Low Voltage Directive.
(LVD) (2006/95/EC)

$C \in$

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Merci d'avoir choisi les produits Danfoss

Gracias por adquirir productos Danfoss

Obrigado por comprar um produto Danfoss

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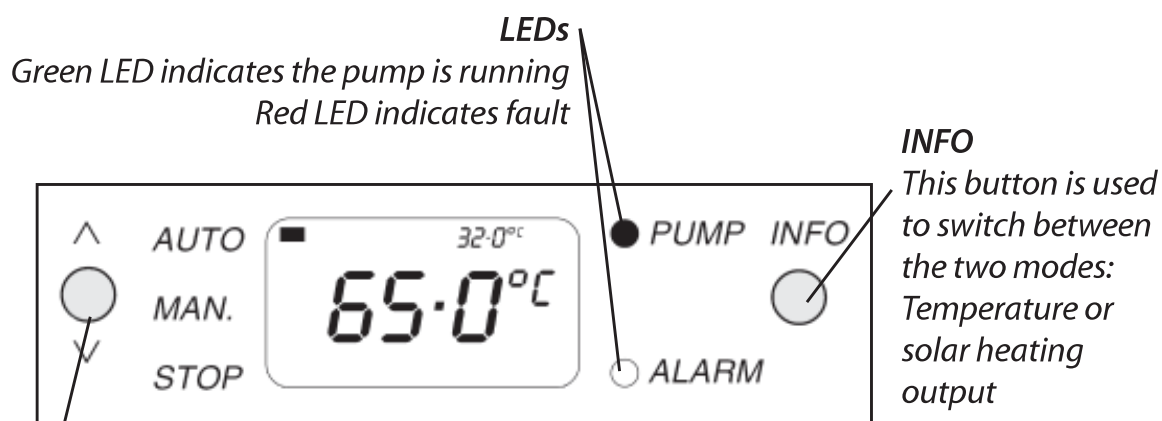**PT**

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1.0 Basics
1.1 Description of function

The regulator controls the heat transmitted from the solar collector to the utility water tank.
The pump of the solar heat installation is controlled automatically via temperature sensors.

LEDs

Green LED indicates the pump is running
Red LED indicates fault

INFO
This button is used to switch between the two modes: Temperature or solar heating output

PUMP
This button is used to switch between pump operation patterns:
AUTO   Automatic operation of circulation pump   Normal operation
MAN   Circulations pump runs continuously   Used e.g. for service
STOP   The pump does not run   Used e.g. for service

1.2 Temperature display

The display shows either temperature or solar heat output. Select by pressing the INFO button. If temperature is displayed, the temperature is given at both the solar collector and the bottom of the hot-water tank. The solar collector installation is in operation when the temperature of the solar collector is higher than the temperature of the hot-water tank.

Temperature in hot-water tank

Temperature in solar collector
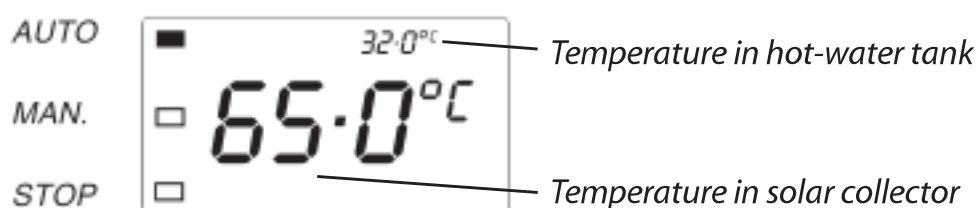
2.0 Advanced
2.1 Power Failure

In case of power failure, the regulator remembers the accumulated solar heat output and the days counter for 24 hours. The pump mode setting is also retained.

2.2 Forced cooling

If the temperature of the hot-water tank exceeds 90°C, the pump will run until the hot water has been cooled to 60°C. The pump must be on AUTO.

2.3 Regulator fault display

If the temperature sensors have a fault, this is shown by the red LED being lit and F1 or F2 flashing. Call in the installer.
If the red LED is lit and the tank temperature flashes at the same time, the temperature of the hot-water tank may be too high. If this state continues, call your installer.

2.4 Solar Heat Output

Days counter

AUTO

20

MAN.   *1520*

Solar heat output

STOP

Solar Heat Output
Gives the performance of the solar heat installation. The figure is calculated on the basis of the difference between the temperature in the solar collector and the temperature in the tank, as well as the time in which the pump is running in AUTO.
Max. display value is 2999.

Days Counter

Gives the number of days for which the solar heat output has been calculated. The max. calculation covers 30 days.

Automatic reset of *Solar Heat Output* and *Days Counter* is effected when the days counter reaches 30.
A manual reset can be made by pressing the *INFO* button for 3 seconds.

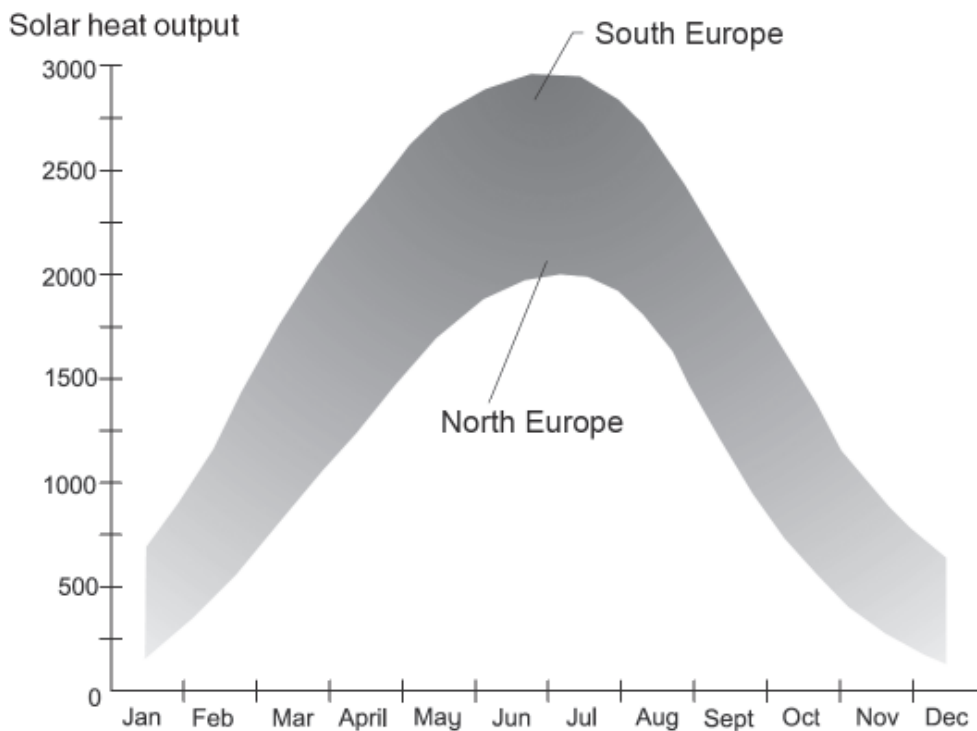## 2.5 Solar Heat In Europe

The graph indicates the amount of solar heat per month that can be expected in different regions of Europe.

2.6 Solar heat is free - go for it!

The performance of the solar heat system relates directly to the amount of hot water used. The higher consumption the better performance.
During longer periods of absence, eg. during summer holidays, in which plenty of free solar heat may be expected, one might observe that the performance is below average.