EVERHOT™

SMART WATER SYSTEM

Smart Domestic water system.

EVERHOT™

SMART WATER SYSTEM

There is always hot water!

Dear customer,

Thank you for purchasing the EVERHOT system.
This system is intended for domestic use, and it should be installed by a certified electrician.
This manual provides detailed explanation about system use and guidance about operation of this new improved equipment for obtaining the best results.
If you encounter problems or faults in operating this system, please contact us for help and support.
The company guarantees three years warranty for all system components.
We believe you purchased a perfect product and hope you be satisfied from it

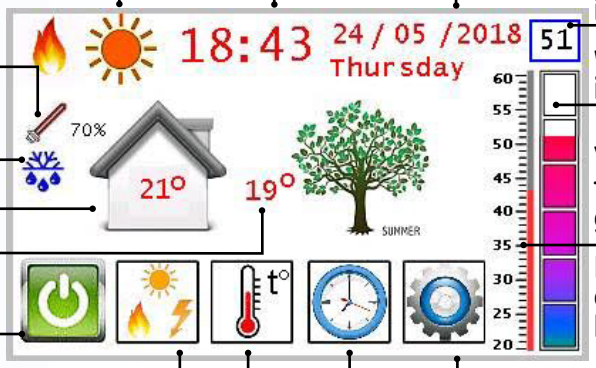
EVERHOT
SMART WATER SYSTEM

Table of contents

Main menu 1
System state settings 2
Smart boiler activation 5
System setup 8

EVERHOT
SMART WATER SYSTEM

Main Menu



System status indication

Time

Date

Water Temperature in tank

Efficiency [%] of electric heater

Water temperature in tank chart

*Boiler temperature control and solar panels defrost

Valves switching temperature chart in gas/solar mode

Indoor Temperature

Outdoor Temperature

Indicator of temperature defined for electric heating in electric state

Select system state

System setup

Smart boiler activation settings in electric state

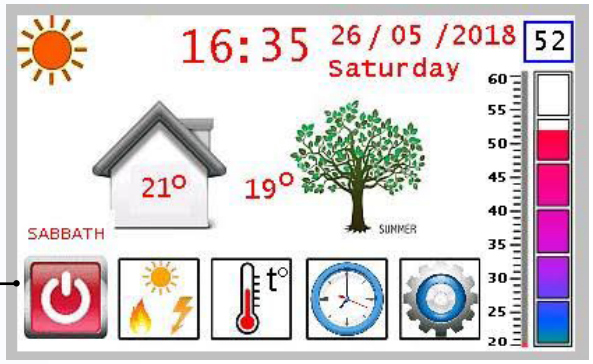
- One-time activation
- Weekly settings
- Continuous heating state

Screen lock
Continuous 3 seconds keystroke

Temperature settings in gas/solar state
Instant activation in electric heating state

Sabbath state activation
Continuous 5 seconds keystroke

Revert to normal operation state



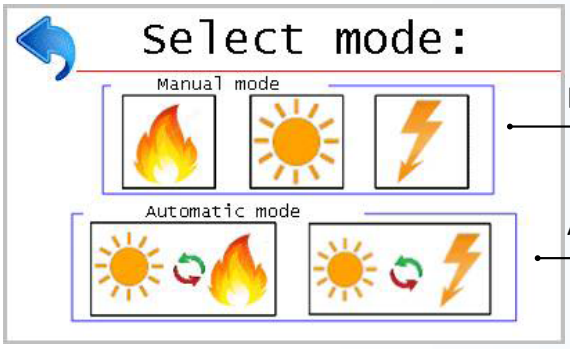
In Sabbath state the system disconnects the electric valves and electric heater and prevents any electric activation during the Sabbath. Hot water supplied only from solar panels.

*requires supplemental installation

System state settings

System state settings

Manual/automatic activation selection screen display.



Manual activation

Automatic activation

Manual activation state limits the system operation in the following states:

Electric heater water supply state
Intended for planning and smart one-time activation of electric heater or solar system.

Hot water supply from solar panels state
Intended for supplying water heated by solar heater only.
Prevents activation of electric heater and electric valves control.

Hot water supply from gas heater state
Intended for activation of gas heater (Junkers) only.

Automatic activation

State of automatic switching between hot water supply from solar panels and any type of electric heating system
E.g., heat pump, ATMOR, etc.

State of automatic switching between hot water supply from solar panels and gas heater (Junkers)
Intended for use of solar or gas (Junkers) heating only. Without activation of electric heating.

System state settings

State of automatic switching between solar and gas (Junkers) heating

Accessed by pressing this icon in the main menu display screen

Selection of automatic switching between solar panels and gas heater state. The selected system state will appear in the main display screen.

Pressing this icon access the setting of temperature for switching between heaters

The following screen is displayed:

Menu for setting temperature for heater switching

In order to define the temperature for heater switching slide the square icon inside the pink bar to the left or right, and press "set". Thereafter the red vertical line in the main display screen will indicate the defined temperature on a scale between 20˚C to 60 ˚C. In this state the system automatically operates to supply solar heated water when the water temperature in the tank is greater than the defined switching temperature. As water temperature in the tank drops below the defined switching temperature during use, the system automatically switch into gas heating state (Junkers) within 20 seconds.

System state settings

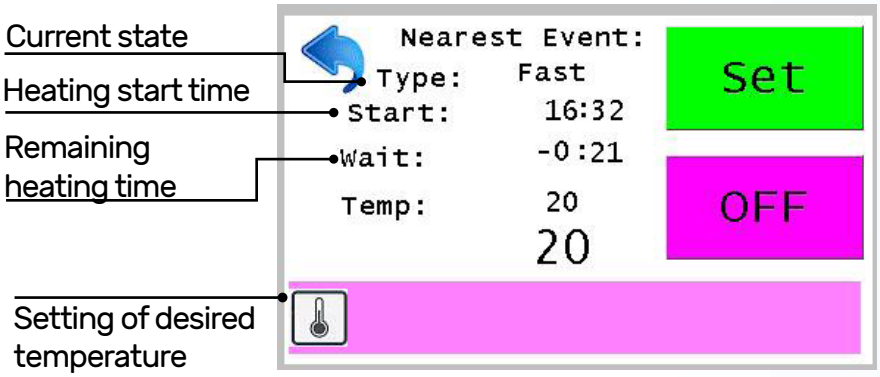
State of hot water supply from boiler instantaneous heating

Accessed by pressing this icon in the main menu display screen

Select hot water supply from boiler state. The selection will appear in the state indication section on the main display screen.

Pressing this icon instantly activates electric heating to water temperature defined using the below display

This screen is then displayed:



Menu for defining desired water heating temperature, state display and remaining heating time

In order to define the temperature for heater switching slide the square icon inside the pink bar to the left or right, and press "set". The start time and remaining heating time for reaching desired water temperature indications are then immediately displayed. Upon activation of the boiler the color of the lightning icon in the main display screen is changed from orange into red. When heating is completed the system issues an audible indication that the boiler is deactivated, and the color of the lightning icon is changed back to orange. The instantaneous heating state can be deactivated by pressing the "off" button, which will immediately deactivate the heating and change the color of the lightning icon from red to orange.

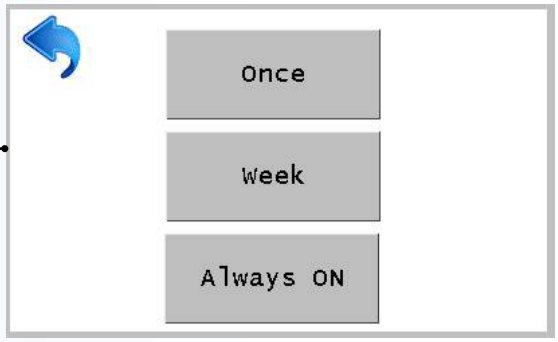
Smart boiler activation

Smart boiler activation

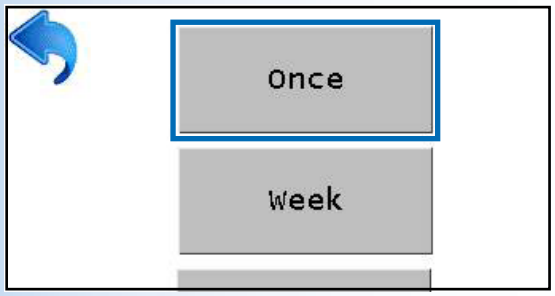
Note that smart activation is available only when the system is in electric state

Accessed by pressing this icon in the main menu display screen

Selection menu

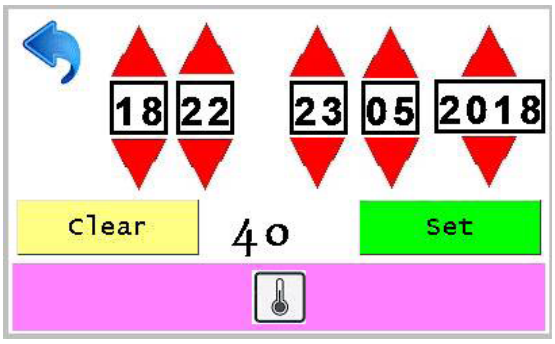


One time smart activation button



Intended for planning activation of electric heating in advance. e.g., for having hot water at specific time of return home from a trip, for example,
select one-time activation by pressing the "Once button".

The following screen is displayed:

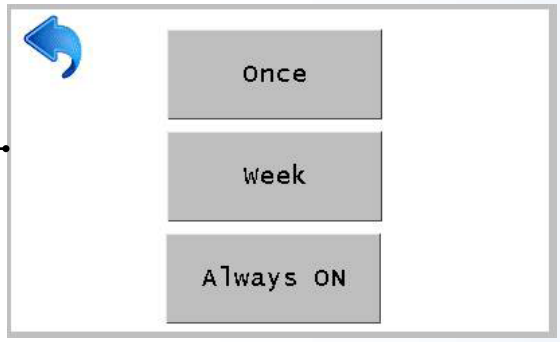


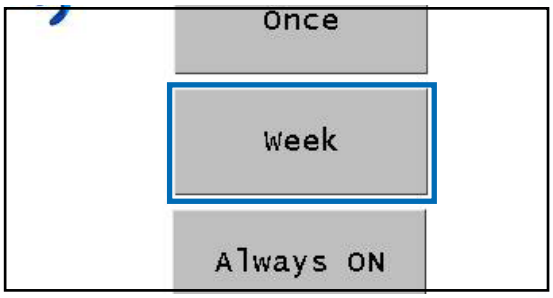
This display is used to define date and time of activation of electric heater, and the desired water temperature (the system will activate electric heating than only when water temperature in the tank is smaller then the desired water temperature) The date and time can be set by pressing the red triangular arrows, desired temperature is set by sliding the square icon inside the pink bar to the left or right, and pressing "set". Before reaching the defined date and time settings the system checks the water temperature inside the tank, and activate electric heating only if the water temperature is smaller than the desired temperature setting. Upon reaching the desired water temperature the electric heater is deactivated (if needed). The one-time activation can be cancelled by pressing the "clear" button.

Smart boiler activation

Weekly smart activation

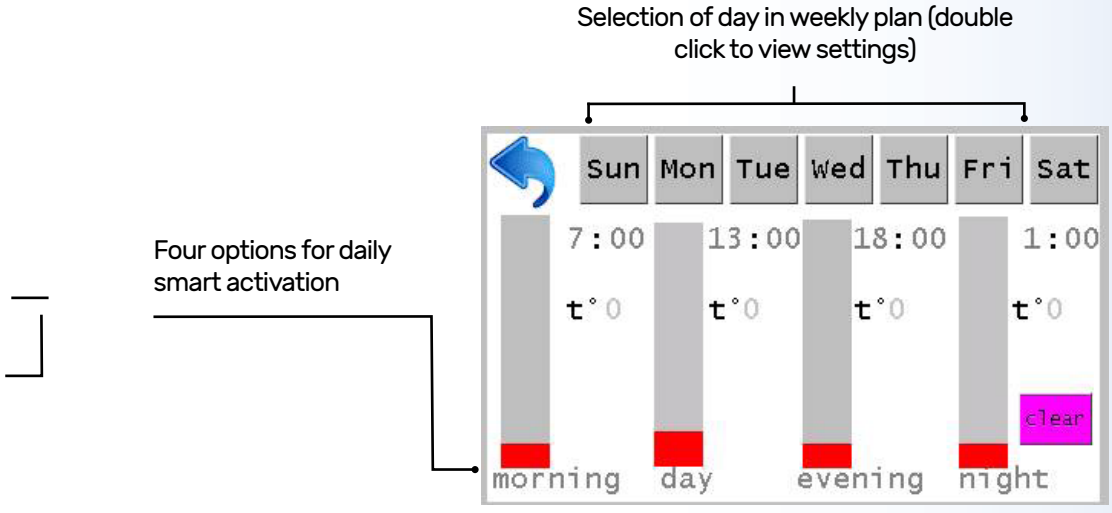
Accessed by pressing this icon in the main menu display screen





In order to set weekly electric heating **press the "Week" button.**

The following screen is displayed:



In this stage press "Sunday", for example, and select one of the four displayed option, for example, press the evening chart.

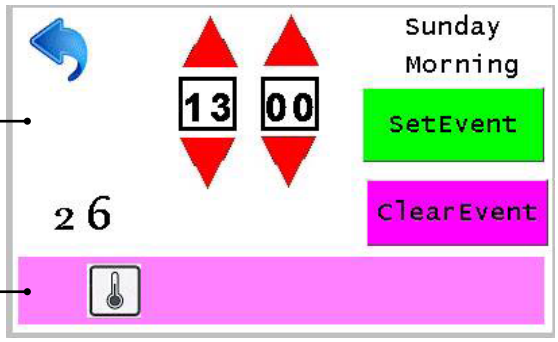
Smart boiler activation

Weekly smart activation

The following screen is displayed:

Setting time for reaching desired water temperature (the system activates heating in advance accoding to temperature differences)

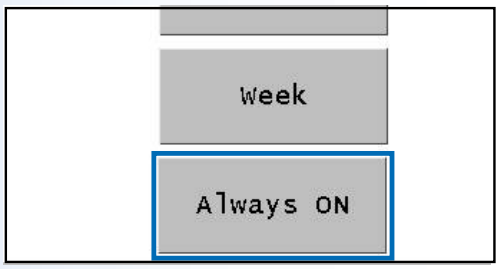
Temperature setting (upon reaching the defined temperature the electric heater is deactivated)



The time is set by pressing the red triangular buttons, and the temperature is set by sliding the square icon inside the pink bar and pressing SetEvent , and similar settings can be done in the other charts. To simplify the weekly settings it is possible to mark part/all days of the week in which the same time and temperature settings should be used, selecting the required chart from the 4 options, setting the time and temperature and pressing SetEvent and the system will set the same options for all selected days simultaneously. The same procedure can be used to cancel such settings. To view the setting made for a specific day press twice the square icon of the desired day.

Continuous activation of electric heater

Accessed by pressing this icon in the main menu display screen



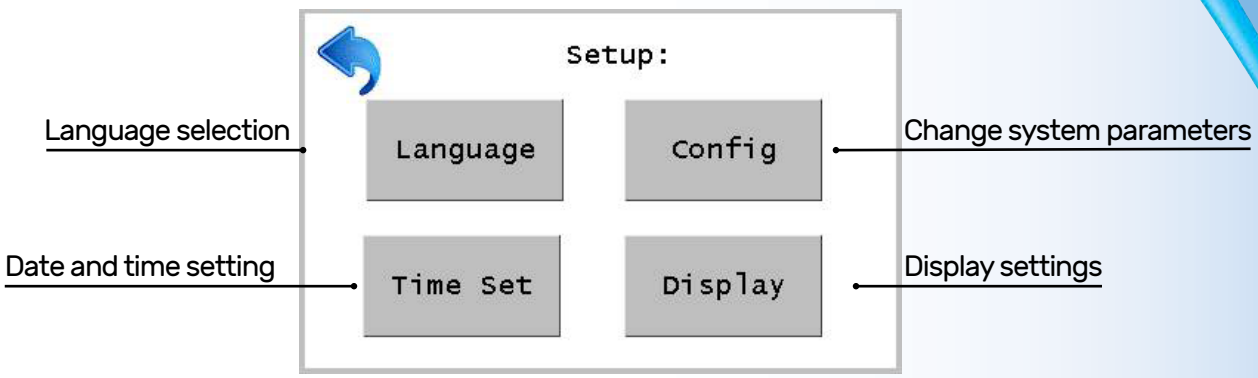
In order to activate electric heating to maintain a desired temperature
press the "Always on" button.

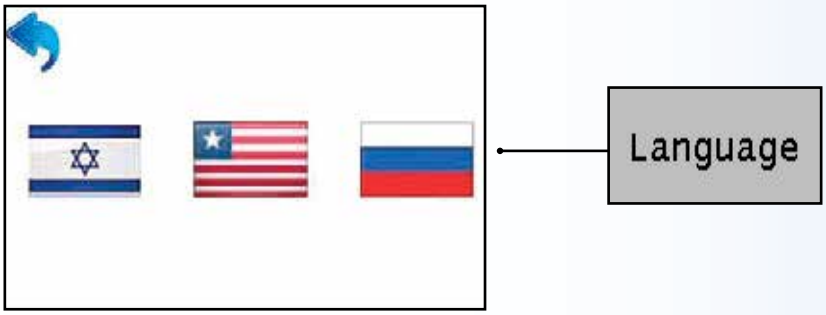
The following screen is displayed:

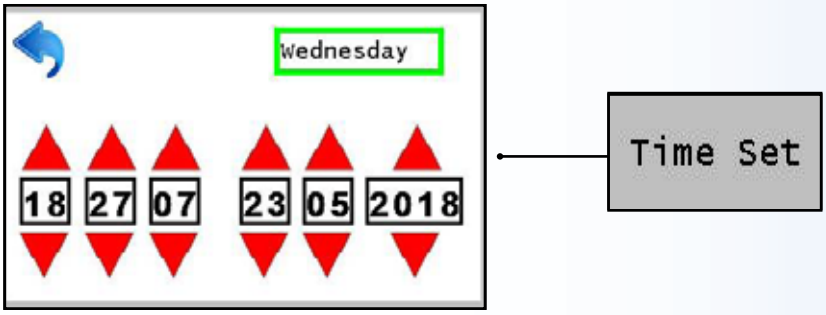
To set desired temperature to maintain a desired temperature slide the square icon in right or left direction inside the pink bar than press SetEvent. The system maintains a constant water temperature inside the tank within a 2°C range until cancelling/change of settings. To cancel continuous activation press the ClearEvent button.

System setup

Used for changing system setting and various definitions





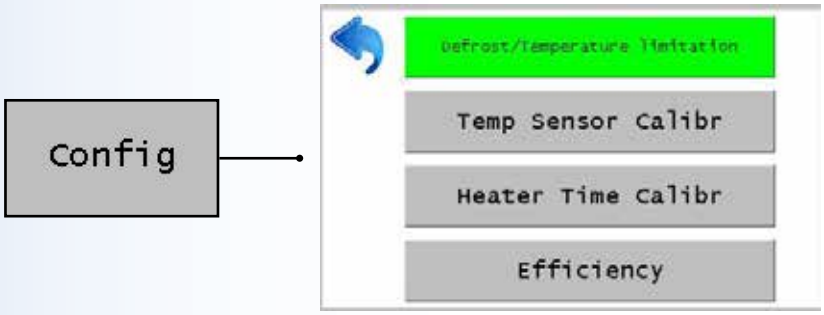


System setup

solar collectors defrost/ temperature limitation

For solar collectors defrost and limiting temperature inside the tank installation of a water pump is needed. This water pump provides several advantages:

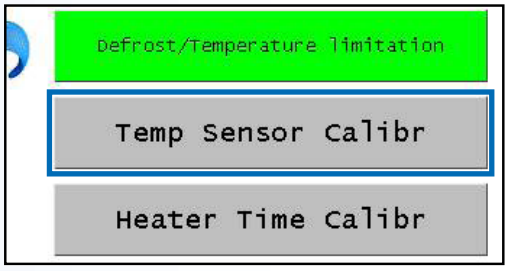
- In worm days water circulation between the solar collectors and the tank by the Everhot system can set a maximal water temperature inside the tank heated by the solar collectors.
- limiting the maximal temperature inside the tank substantially reduces scale accumulation and protects the tank and the pipes of the solar collectors from over pressure of hot water.
- provides skin burns prevention from opening of hot water faucet.
- In cold areas (e.g., Jerusalem, the Golan heights) the water in the solar collectors pipes may freeze during the winter, which can cause blust of sealers/pipes. The activation of the water circulation option by the Everhot system prevents such phenomena.



Prevent burst of sealers/pipes in cold days. Prevent skin burns in hot days

Temperature sensors settings

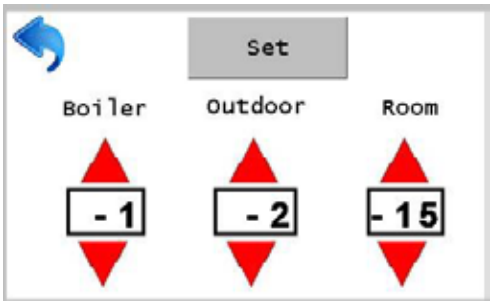
Due to measurement deviations of sensors installed outdoor, inside the water tank, and indoor, these sensors can be calibrated by the system



Press temperature sensors settings button

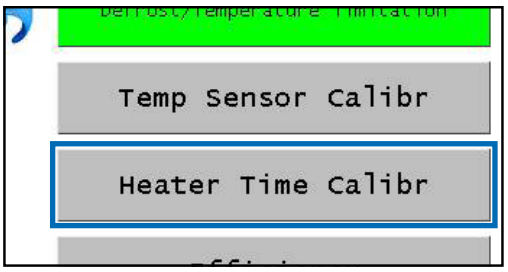
The following screen is displayed:

Temperature is measured by manual thermometer and the system is calibrated using the red triangular buttons.



System setup

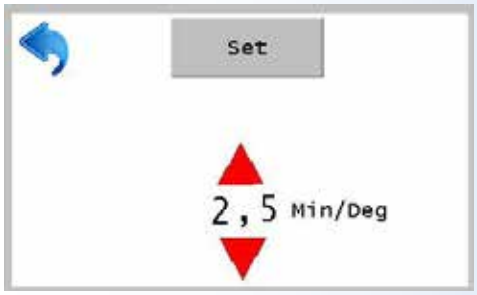
Heating time calibration



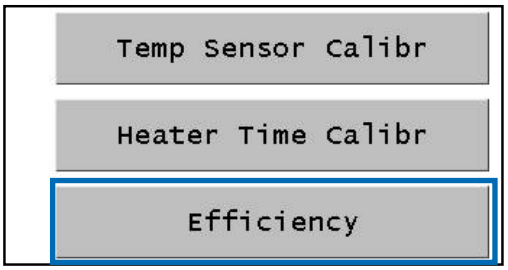
Heating time calibration may be required since tank volume may differ from one installation to another, or due ti scale accumulation. The system can calibrate itself automatically, but this requires several days of operation. To calibrate heating time after installation press this button.

The following screen is displayed:

Using the red triangular buttons minutes to Celsius degree definitions can be set. For more information on this option contact the system technician



Heating element efficiency



The system automatically runs an efficiency test once a month to determine amount of scale accumulated on the heating element.
To activate press this button.

The following screen is displayed:

Select automatic or manual activation. In manual mode the system immediately starts the efficiency test. In the automatic mode the system runs the efficiency test once a month.
The above display screen shows the date and the results of the last efficiency test, or in the following icon in the main display screen.

For more details:

+972-508-506040

www.everhot.co.il