INSTALLATION AND USER GUIDE

Gabarrón

ECOMBI HHR

SMART STORAGE HEATER

ECOHHR20
ECOHHR30
ECOHHR40

Please, read these instructions CAREFULLY before installing or using this appliance for the first time.

User Operating Instructions

Connection and Disconnection

Each ECOHHR storage heaters has its own power switch and is located on the right side panel. The power switch is used to turn the heater ON and OFF.

If this switch is turned OFF then the storage heater will not take a charge when the off peak supply is on and will not give out any heat. Therefore it is important to make sure this is turned ON at all times.

Note: Two electrical supplies needed.
Economy and **24hr** supply.

Each ECOHHR storage heater requires two electrical supplies. One is an economy tariff supply (off peak or restricted supply) and the other is a 24hr supply (on peak or unrestricted supply).

Connection from the economy supply (off peak or restricted supply) to the heater should be via a 20Amp double pole isolator switch.
Connection from the 24hr supply (on peak or unrestricted supply) to the heater should be via a fused double pole isolator switch or a fused RCD isolator switch, depending on the installation.
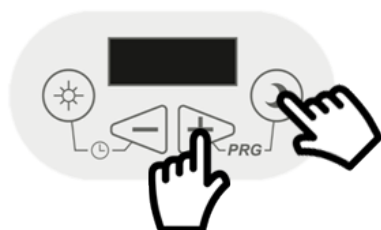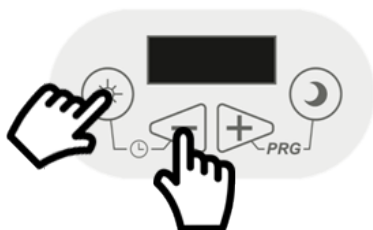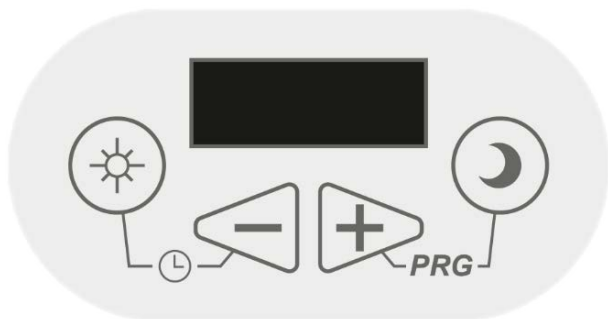
User Control Panel

You will find the keypad on the top right side on the heater. This easy to use keypad only has four buttons, however these four button can be use in different ways to give you many functions and will be explained in more detail in later sections.

Basic Key functions:

☀   This button is used to set the ***'Comfort'*** temperature. Default is 21°C.

☾   This button is used to set the ***'Economy'*** temperature. Default is 18°C.

−   This button is used to decrease values.

+   This button is used to increase values.

☀ and −   Pressing these buttons together will allow you to set the Day and Time.

☾ and +   Pressing these buttons together will allow you to set the weekly program.

User Operating Instructions

Setting the Day/Time

The ECOHHR storage heater has been preset with the Day and Time however you will need to adjust this with summer and winter times (when the clocks go forward and back).

To check the Day and Time on your ECOHHR storage heater follow these steps.

☀ and ⊟ Press and Release the sun ☀ button and the minus ⊟ button together and the display will first show the Day and then the current Time.
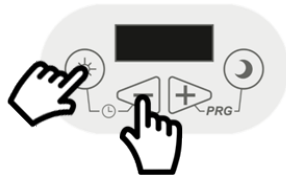
If the Day or Time are incorrect and you want to change then follow these steps.

☀ and ⊟ Press and Hold the sun ☀ button and the minus ⊟ button together until the Day is displayed and starts to flash. Use the plus ⊞ or minus ⊟ buttons to adjust to the current Day.

☀ and ⊟ Press and Release the sun ☀ button and the minus ⊟ button together to set the Day and move onto the Time.
The Hour will now start to flash. Used the plus ⊞ or minus ⊟ buttons to adjust to the current hour time.

☀ and ⊟ Press and Release the sun ☀ button and the minus ⊟ button together to set the Hour and move onto the Minute.
The Minutes will now start to flash. Used the plus ⊞ or minus ⊟ button to adjust to the current minutes time.

☀ and ⊟ Press and Release the sun ☀ button and the minus ⊟ button together to set the Minutes and to finish.

User Operating Instructions

Setting the Comfort Temperature Level

The ECOHHR storage heater has been preset with a Comfort temperature level of 21°C.

To increase or decrease the Comfort temperature level please follow these steps.

☀ Press and Release the sun (comfort) ☀ button. The word **SUN** will be displayed for a short time and then the current set temperature for the comfort level will start to flash. Used the plus ➕ or minus ➖ button to adjust the comfort temperature.

☀ Press and Release the sun (comfort) ☀ button again to set the new comfort temperature level.

Setting the Economy Temperature Level

The ECOHHR storage heater has been preset with an Economy temperature level of 18°C.

To increase or decrease the Economy temperature level please follow these steps.

🌙 Press and Release the moon (economy) 🌙 button The word **Noon** will be displayed for a short time and then the current set temperature for the economy level will start to flash. Used the plus ➕ or minus ➖ buttons to adjust the economy temperature.

🌙 Press and Release the moon (economy) 🌙 button again to set the new comfort temperature level.

User Operating Instructions

Default Weekly Program

Default weekly program set for all 7 days.

The ECOHHR storage heater has been preset with an economical weekly program designed to give the best efficiencies and is based on the following times.

From 00:00 till 07:00am the program runs in economy mode at 18°C, from 07:00am till 09:00am the program runs at the Comfort temperature of 21°C, from 09:00am till 17:00pm the program will run in economy mode at 18°C, from 17:00pm till 22:00pm the program will be at the Comfort temperature 21°C and from 22:00pm till 24:00pm will run in economy mode.

Setting the Weekly Program

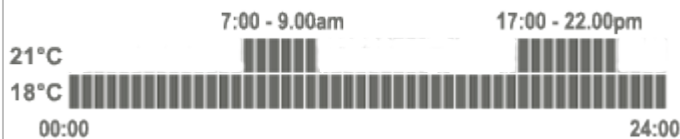If you wish to change the default weekly program then follow the next steps. Please note by changing the economy times you may increase the running costs and reduce the efficiency of the heater.

We suggest that you first make a note of the times when you want the heater to be at the Comfort and Economy temperatures.

Press and Release the moon (economy) ☽ button and the plus ⊕ button at the same time. The word **ProG** will display for a short time and then **dAY1** will flash.

Used the ⊖ or ⊕ button to select the day you wish to change the programming for. Then Press and Release the moon (economy) ☽ button and the plus ⊕ button at the same time to select and enter the program for that day.

The display will now flash between the time interval 00:00 and the set temperature level **Noon** (Economy setting)

If you wish to change the temperature level from **Noon** (Economy) to **Sun**(Comfort) for this 30 minute segment 00:00 to 00:30 then Press the sun (comfort) ☀ button. The display will now flash between the time interval 00:00 and **Sun**(Comfort).

Now Press the Plus ⊕ button to move to the next 30 minute segment. The display will now flash between the time interval 00:30 and this temperature level

*(If you want to keep the current setting of **Noon** (economy) or **Sun**(Comfort) then just Press the plus ⊕ button to move to the next 30 minute segment.)*

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User Operating Instructions

Setting the Weekly Program - *continued*

If you wish to change the temperature level from **Noon** (Economy) to **Sun**(Comfort) for this 30 minute segment 00:30 to 01:00 then Press the sun (comfort) ☀ button. The display will now flash between the time interval 00:30 and **Sun**(Comfort).

Now Press the Plus ⊞ button to move to the next 30 minute segment. The display will now flash between the time interval 00:30 and this temperature level

Repeat the above steps, selecting either the **Sun**(Comfort) temperature or **Noon**(Economy) temperature and pressing the Plus button to move to the next 30 minute segment.

You repeat this until you go through all the 30 minute segments and the display shows **dAY1** again.

At this point you can either Press the Plus button and repeat the above for day 2 and the other days or copy day1 to day2, day2 to day3, day3 to day4, and so on.

Repeat above steps and go through all 24 hours until dAY1 (or programmed day) is displayed again.

Setting the Weekly Program - *Copying Days*

To copy **dAY1** to **dAY2**. (while on the day you want to copy)
Press and Hold the Plus ⊞ button until **CP12**(copy day 1 to day 2) is displayed and then release. After a short time the display will show **dAY1** again.

Press and Release the ⊞ button to move to day 2, **dAY2** is now displayed.

To copy **dAY2** to **dAY3**.
Press and Hold the Plus ⊞ button until **CP23**(copy day 2 to day 3) is displayed and then release. After a short time the display will show **dAY2** again.

Press and Release the ⊞ button to move to day 3, **dAY3** is now displayed.

Repeat as above and go through copying each day. Once you have gone through all the days the display will show the set temperature as you have programmed.

User Operating Instructions

Economy Mode Override Function

At some point you may wish to temporally override your current running program from Economy to the Comfort temperature.

To override the Economy Mode you'll need to follow these steps.

Press and Hold the sun (comfort) ⊛ button until the word **Sun** is displayed. The heater will now maintain the comfort temperature until the next programmed change. At which point the heater will then continue to run your current program.
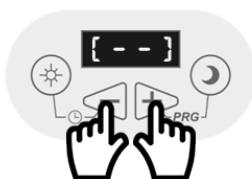
Control Panel Child Lock Function

The ECOHHR storage heater has a built in child lock function that allows you to block any unwanted changes to the heaters settings by disabling the control panel.

*To lock the control panel :-*
Press and Hold the plus ⊕ and minus ⊖ buttons until **[- -]** is displayed. The heaters control panel is now locked and will now not allow anyone to use or change anything.

To unlock the control panel :-
Press and Hold the plus ⊕ and minus ⊖ buttons until the temperature is displayed. The heaters control panel is now unlocked and will now allow anyone to use again.

User Operating Instructions
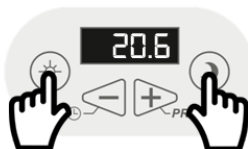
ECOHHR Current Status Function

The ECOHHR has a function that allows you check the current status of the heater. This function allows you to see what temperature the heater is currently measuring the room to be, the current core temperature, the air temperature at the grille, the percentage of charge the heater tried to take last period and how long the balancing element has been used for during the last on peak time.

To check the current Status :-
Press and Release the sun ☀ and the moon ☽ buttons together. The display will now show the current room temperature that the sensor is measuring.

Now Press and Release the plus ⊞ button to see the current Core temperature.

Now Press and Release the plus ⊞ button to see the current Air temperature at the grille.

Now Press and Release the plus ⊞ button to see the last charge percentage.

Now Press and Release the plus ⊞ button to see how long the balancing element had been on for during the last 24hrs.

Cleaning your ECOHHR

Before cleaning, make sure the power has been turned off and the heater is cold to touch.

Occasionally, clean dust with a dry, soft cloth.
Do NOT use any solvent or abrasive products for cleaning.

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