

User Guide

ECOMBI HHR
Smart Storage Heaters

ECOHR20 | ECOHR30 | ECOHR40



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

ELNUR powered by
Gabarrón

IMPORTANT INFORMATION

- Please read all the instructions carefully before installing or using the heater for the first time and retain for future use.
- **CAUTION** – Some parts of this product can become very hot and cause burns. Particular attention must be given where children and vulnerable people are present.
- Children should be supervised to ensure they do not play with the heater. Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating unattended.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Cleaning and user maintenance must not be done or carried out by children without supervision.
- Children ages from 3 years and less than 8 years must only switch the appliance on/off provided that it has been installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. They also must not plug in, regulate and clean the appliance or perform user maintenance.
- Children of less than 3 years should be kept away unless continuously supervised.
- Do not operate any heater after it malfunctions. Disconnect and Isolate from the electrical supply and have the heater inspected by a competent electrician or approved service agent before reusing.
- Do not use the heater outdoors.
- To disconnect the heater, turn off the isolator switches and at the consumer unit.
- Do not insert or allow foreign objects to enter any ventilation or exhaust openings as this may cause electric shock, fire or damage to the heater.
- Air inlets and outlets provide proper operation of the appliance and prevent its overheating. DO NOT cover or block the air intake and outlet grills.
- Use this heater only as described in this manual. Any other use is not recommended by the manufacturer and may cause fire, electric shock or injury to persons.
- This guide must be kept and given to any new user.

SAVE THESE INSTRUCTIONS

		ECOHR20	ECOHR30	ECOHR40
Balancing element output	W	550	820	1100
Storage heater element rating	W	1742	2613	3484
Charge period		7h	7h	7h
Charging (7h)	kWh	12.2	18.3	24.4
Connection		240V-	240V-	240V-
Frequency	Hz	50-60	50-60	50-60
Length	cm	72	95	117
Height	cm	76	76	76
Width	cm	19.5	19.5	19.5
Weight (including blocks)	Kg	97	140	183
Number of blocks (6kg)		12	18	24



Content for Installation Instruction

1. ECOHHR Important Information and Content Information.
2. Warning Messages & Unpacking.
3. Removing Front Panel & Wiring.
4. Removing Microtherm & Installing Bricks.
5. Refitting Microtherm & Front Panel.
6. Relocation, Resetting Safety cut-out and Main components list.
7. Connection and Disconnection, Control panel layout
8. General Settings - Initial Off-Peak Setup
9. Resetting to Factory defaults and troubleshooting
10. Connection Diagram HHR20
11. Connection Diagram HHR30
12. Connection Diagram HHR40
13. Single Power Supply Connection
14. Supplier and Contact Details

Elnur UK Ltd, Unit 1 Brown Street North, Leigh, WN7 1BU
 Customer Help Line
01942 670119
 Technical Support
01942 670119 (Option 2)

USER OPERATING INSTRUCTIONS



Note

This heater can be connected to the standard two electrical supplies Economy and 24hr supply or one single Economy/24hr supply.



Connection and Disconnection

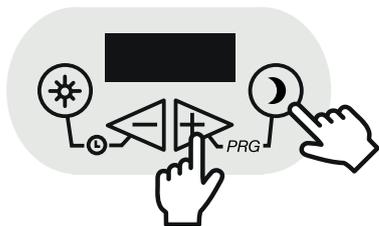
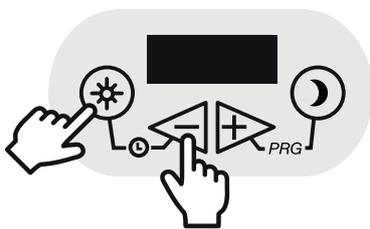
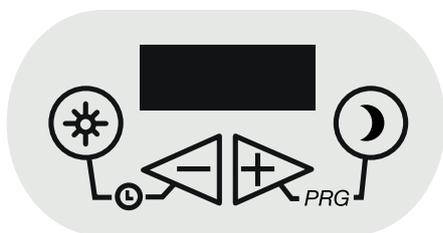
Each ECOHHR storage heater has its own power switch and is located on the right side panel. The power switch is used to turn the heater ON and OFF.

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.

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). However, the Elnur ECOHHR is capable of utilising a single economy/24hr supply by using the supplied link cables. Modification to the distribution board may be required if supplied via radial circuits.

Connection from the economy supply or economy/24hr supply to the heater should be via a 20Amp double pole isolator switch. (Radial circuits)

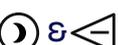
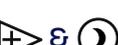
Connection from the 24hr supply (on peak or unrestricted supply) to the heater should be via a fused double pole isolator switch or a fused RCD isolator switch, depending on the installation.



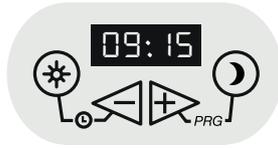
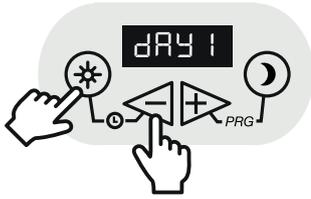
User Control Panel

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 buttons can be used 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.
-  Pressing these buttons together will allow you to set the Day and Time.
-  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.

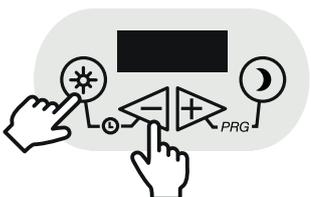
- ☀ and ⏪ Press and Hold the sun ☀ button and the minus ⏪ button together until the Day is displayed and starts to flash. Use the plus ⏩ or minus ⏪ buttons to adjust to the current Day.



- ☀ 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. Use 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 Minutes. The Minutes will now start to flash. Use the plus ⏩ or minus ⏪ button to adjust to the current minutes time.



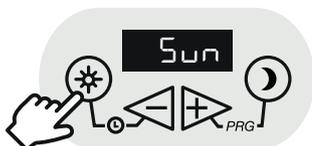
- ☀ and ⏪ Press and Release the sun ☀ button and the minus ⏪ button together to set the Minutes and to finish.

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.

Use the plus ➡️ or minus ⬅️ button to adjust the comfort temperature.

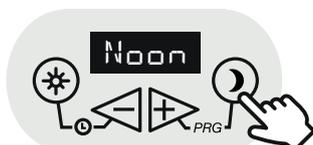


- ☀️ Press and Hold the sun ☀️ button again to set the new comfort temperature level.

Setting the Economy Temperature Level

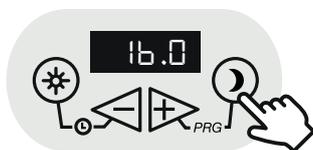
The ECOHHR storage heater has been preset with an Economy temperature level of 18°C.

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.

Use the plus ➡️ or minus ⬅️ button to adjust the economy temperature.



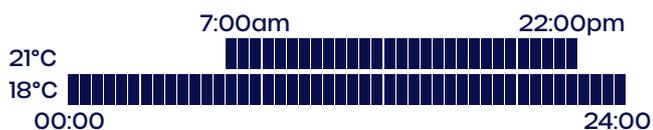
- 🌙 Press and Release the moon (economy) 🌙 button again to set the new economy temperature level.



Please note adjusting the default set temperatures can result in higher running costs. We recommend a 3°C - 5°C max difference between the economy and comfort temperature.

USER OPERATING INSTRUCTIONS

Default weekly program set for all 7 days.



Default Weekly Program

The ECOHHR storage heater has been preset with a weekly program designed to give comfort level heating throughout the day and is based on the following times.

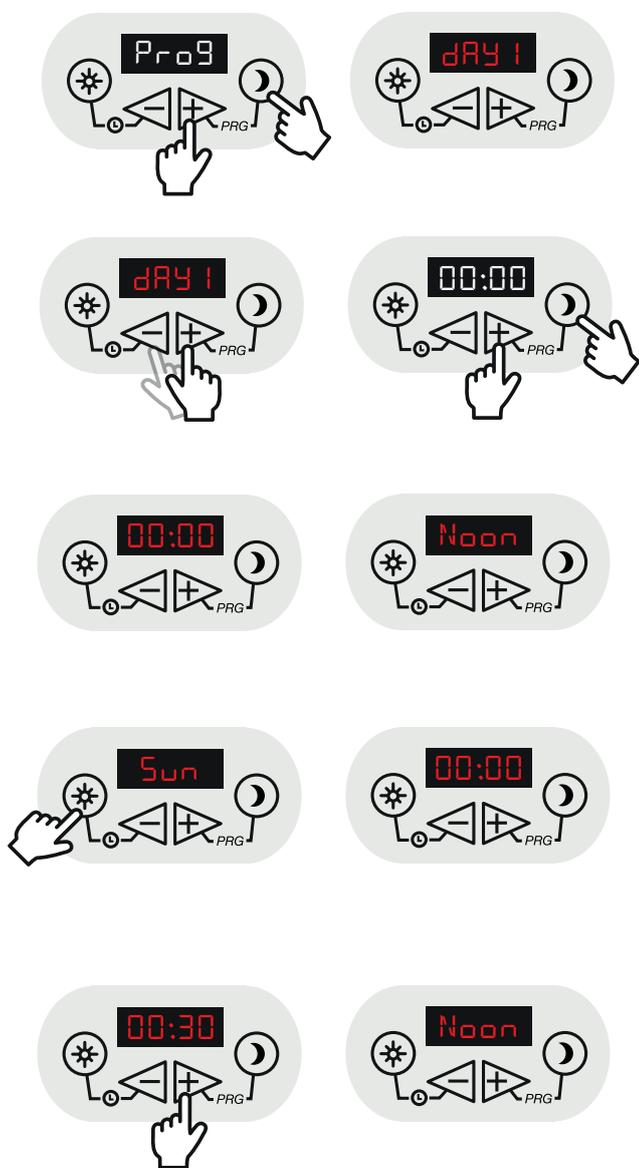
From 00:00 till 07:00am the program runs in economy mode at 18°C, from 07:00am till 22:00pm the program runs at the Comfort temperature of 21°C and from 22:00pm till 24:00pm will run in economy mode.

Setting the Weekly Program

If you wish to change the default weekly program then follow the next steps. Please note by changing the programmed 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.



Use 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.

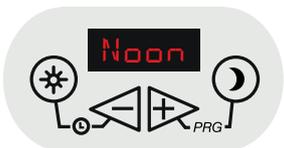
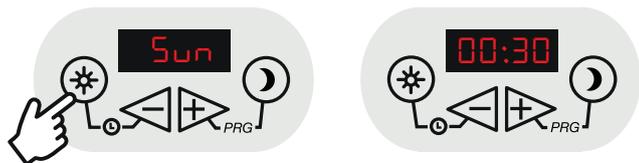
The display will now flash between the time intervals 00:00 and the set temperature level **Noon** (Economy setting)

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).

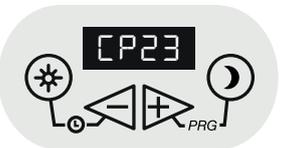
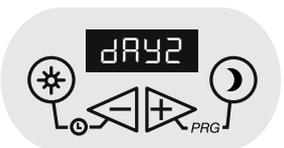
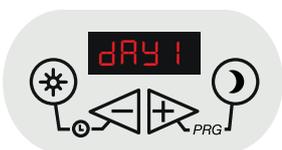
Now Press the Plus button to move to the next 30 minute segment. The display will now flash between the time interval 00:30 and this temperature level

(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.)

USER OPERATING INSTRUCTIONS



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



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.

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.

Repeat this until you go through all the 30 minute segments and the display shows **dAY 1** 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.

Setting the Weekly Program - Copying Days

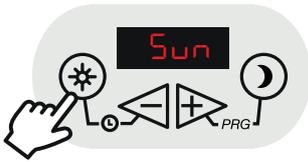
To copy **dAY1** to **dAY2**. (while on the day you want to copy) press and hold the button until **CP12** (copy day 1 to day 2) is displayed and then release. After a short time the display will show **dAY1** again.

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.

USER OPERATING INSTRUCTIONS



Economy Mode Override Function

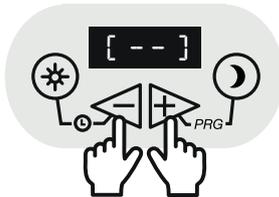
At some point you may wish to temporarily override your current running program from Economy to the Comfort temperature.

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.

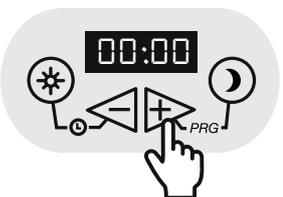
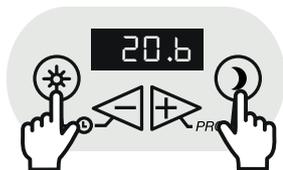
USER OPERATING INSTRUCTIONS

ECOHR Current Status Function

The ECOHR 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 amount of the last charge percentage the heater did.

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



Cleaning your ECOHR

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.

PRODUCT FICHE

MODEL(S): GABARRON ECOHHR20, ECOHHR30, ECOHHR40

ErP

Item	Symbol	Value			Unit
		ECOHR20	ECOHR30	ECOHR40	
Heat Output					
Nominal heat output	P _{nom}	0.8	1.2	1.6	kW
Minimum heat output	P _{min}	N.A.	N.A.	N.A.	kW
Maximum continuous heat output	P _{max, c}	0.8	1.2	1.6	kW
Auxiliary electricity consumption					
At nominal heat output	el _{max}	0.000	0.000	0.000	kW
At minimum heat output	el _{min}	0.000	0.000	0.000	kW
In standby mode	el _{sb}	<0.0005	<0.0005	<0.0005	kW

Item	Value. All models
Type of heat input	
Electronic heat charge control with room and/or outdoor temperature feedback	Yes
Type of heat output / room temperature control	
Electronic room temperature control plus week timer	Yes
Other control options	
Room temperature control, with open window detection	Yes
With distance control option	Yes
With adaptive start control	Yes

Contact details	ELNUR, UK Unit 1, Brown Street North, Leigh, Wigan, WN7 1BP
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Commission Regulation (UE) 2015/1188 of 28 April 2015. Ecodesign requirements for electric storage local space heaters.

ELNUR

Supplier:

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Unit 1, Brown Street North
Leigh, Lancashire, WN7 1BU.
+44(0)1942 670119
info@elnur.co.uk

Manufactured by:

ELNUR S.A.
Travesía de Villa Esther, 11 28110, Algete
Madrid Telephone: +34 916281440



The symbol on the product or in its packaging indicates that this product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local council office, your household waste disposal service or the shop where you purchased the product. These instructions are only valid in the EU member states.

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www.elnur.co.uk



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