ELNUR
powered by
Gabarrón

The Worlds First Solar Powered Storage Heater



The worlds first solar powered storage heater

SOLAR STORAGE HEATERS

The smart solar storage heater that allows owners with solar rooftop panels to reduce heating costs using free energy from the sun. When there's not enough solar production, it uses cheaper off-peak power to charge and provide heating.

Solar Manager Technology

This is the latest of our innovations, developed and patented by us here at Elnur. Solar Manager technology is capable of detecting any surplus solar energy during daylight hours that may not be fully used in the home. This electric energy can be redirected to the thermal storage unit to heat rooms even when solar energy production has stopped.

This technology can also manage the output of several storage heaters and distribute the energy available according to the established heating needs. The user can give priority to each appliance, ensuring the efficient distribution of available power to maximise indoor comfort at the lowest cost.





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Utilisation of photovoltaic surplus

Ecombi Solar is the first storage heater on the market that is capable of utilising a household's photovoltaic production surplus, converting the solar energy into stored heat and delivering it gradually to the room providing the household with the free heating.

If the surplus production is insufficient to provide the heating desired, Ecombi Solar can function as a conventional storage heater by completing the charge during off-peak hours.

Detects surpluses in real time

Intelligent distribution of energy

SOLAR MANAGER
PATENTED TECHNOLOGY

Adapts the power of the storage heaters to the available

Compatible with any grid-connected photovoltaic



Solar Storage Heaters

Exclusive Smart Solar storage heating, efficiency and comfort with clean and sustainable energy.

Designed to suit any household, our solar heaters can be configured to use the energy from solar panels, off peak electricity tariff or a combination of both.

Option 1 - Use Ecombi Solar as your main heating system

Even without an abundance of sunshine, solar energy is still produced. With having colder winters, heating costs are becoming the highest household expense.

With our ECOHHR & Ecombi SOLAR, you can easily set them in the combined operating mode. The storage heater will utilise all the solar energy surplus produced and, if necessary, complete the appliance charge using the most economic off-peak tariffs to provide heating throughout the day and night as required.

This mode ensures the use of all the solar energy available and completes the storage heater charge to obtain maximum output and constant comfort.



Option 2 - Use Ecombi Solar with your existing heating system to significantly reduce operating costs and boost comfort levels.

Do you have an existing heating system but want to dramatically reduce operating costs?

Ecombi Solar can be programmed to only consume free energy, using surplus solar power that would otherwise be fed to the grid. Once converted into stored heat, it's delivered to the room through the smart storage heater, automatically adjusting for maximum comfort every day.

This operating mode is ideal for reducing running costs of existing heating systems such as heat pumps, wood fires or gas heaters.



Integral Management via WiFi

The integral management of heating and the distribution and use of the solar production. as well as the control of the Ecombi solar storage heaters, is possible through the G-control system via the free Elnur WiFi control app.

1 Displays the distribution of the surplus for heating on a daily, monthly or annual basis

2 Establishes the heating priorities for each room

3 Selects the operating mode best suited to the comfort desired

4 Chooses and defines the setpoint temperature on each of the appliances



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The smart way to make use of your investment in solar panels.

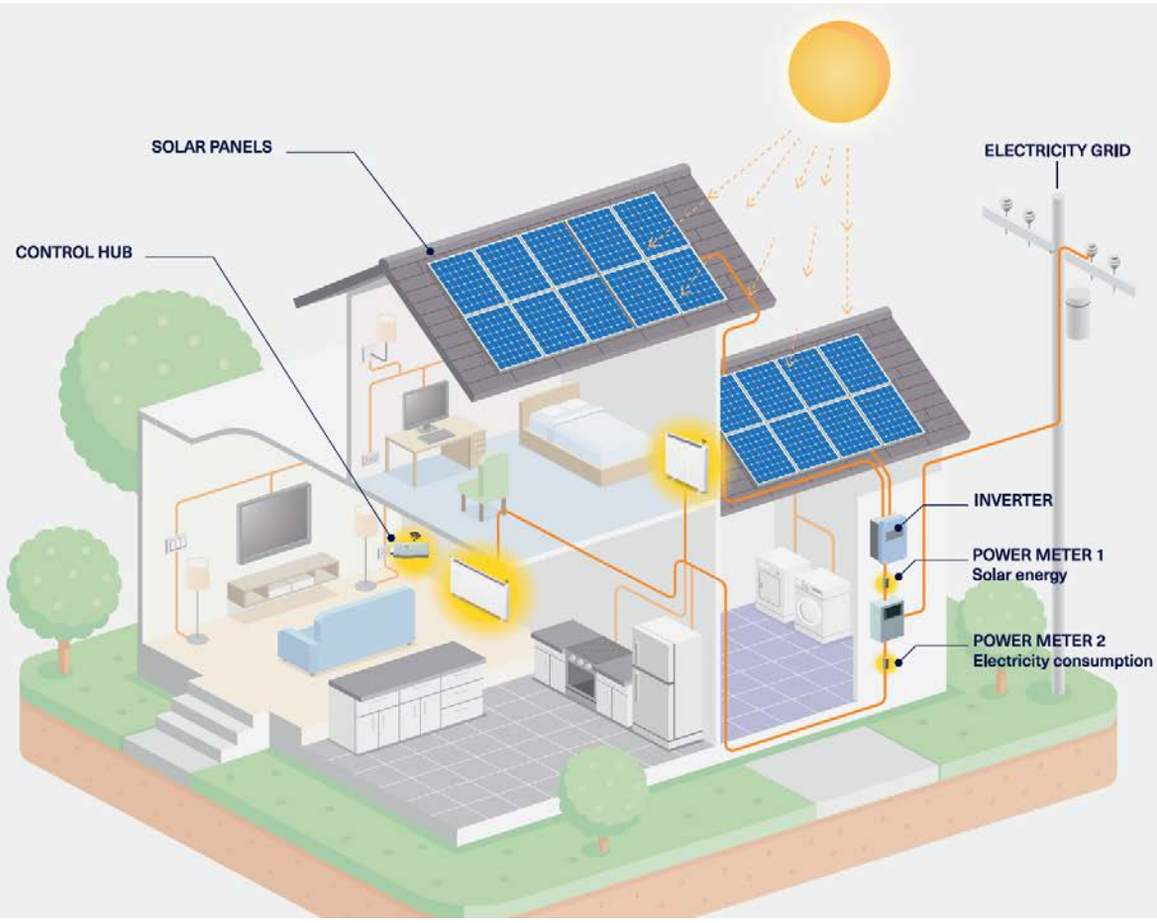
Reduce the rising cost of heating your home with Ecombi Solar

Only one Solar Box needed for an entire installation

The Solar Box accessory is a solar kit for the integral control and management of Ecombi SOLAR and Ecombi HHR storage heaters through the G Control System.

The Solar Box accessory contains the G Control Hub and the meters required for the connection of the storage heaters.

Compatible with all inverters on the market.



SOLAR HHR

EcoDesign Lot20 Compliant

Maximise self-consumption installations with surplus delivered to the grid

5 Years* Guarantee

- Transforms surplus energy into heat
- Daily and weekly programming
- 5 year warranty*
- Integral management via WIFI**
- Patented Solar Manager Technology
- Single supply only***



+ Charges using low-cost off-peak electricity or straight from solar power.
+ SOLAR HHR can operate as a back-up system to the main heating, consuming only the excess from the photovoltaic installation fed into the grid.
+ The Elnur "IEM" also manages the discharge to ensure that heat is available when needed.
+ Allows you to adapt the output of the heaters to the energy available
+ Intelligent WIFI control, via the additional G-Control Hub. Control Solar and on Peak power direct from the app or web app
+ SOLAR MANAGER Technology, manages the surplus and self-regulates and completes the charge based on a modulating operation.
+ Modulating performance based on percentage input set via g-control application only charge when enough power is being generated
+ Fan assisted heat distribution to provide faster room warm-up times.
+ Perfect electric heating product for those wanting to get the most out of their solar pv installation

Technical Features

- Static, programmable and self-regulating SOLAR storage heater with WIFI control.
- Converts all the available self-consumption surplus into heating.
- TFT display with new highly intuitive panel control and lock function.
- Built-in daily and weekly programming.
- Integrated G Control System, remote configuration and control via Internet with WIFI connection.
- Open window detection function for reduced energy waste.
- Adaptive start control.
- Built-in high-sensitivity digital thermostat 0.1°C with calibration option.
- Silent operation based on TRIAC technology
- Overheating protection on storage heating function.
- Automatic safety thermostat with manual reset.
- Built-in balancing heating element made of aluminium to supplement the stored heat as and when required.
- Stainless steel core heating elements and aluminium front panel.
- Side, front and rear air isolating chambers.
- Total appliance lock system through the Elnur Gabarron WiFI Control.
- Solar box accessory required for surplus control and management using the G Control System. Only one solar box needed per installation. It is offered as accessory.
- G Control System is compatible with Amazon Alexa and Google Assistant.



Model	ECOHHR20 SOLAR	ECOHHR30 SOLAR	ECOHHR40 SOLAR
Balancing element output** (W)	550	820	1120
Storage heater output** (W)	1742	2613	3484
Charge period	7h	7h	7h
Charging (7h) (kWh)	12.2	18.3	24.4
Connection	240 V	240 V~	240 V~
Frequency (Hz)	50-60	50-60	50-60
Length (cm)	72	95	117
Height (cm)	76	76	76
Depth (cm)	19.5	19.5	19.5
Weight (kg)	97	140	183
No. of blocks 6kg	12	18	24

*Full warranty terms and conditions available at www.elnur.co.uk
**Solar box with G-control required for surplus control, management and integral WIFI management. One solar box per installation
***Single Supply only, cannot be installed with separate 2 electrical supplies. Constant power required at all times.

Ecombi SOLAR

EcoDesign Lot20 Compliant

Maximise self-consumption installations with surplus delivered to the grid

5 Years* Guarantee

- Transforms surplus energy into heat
- Daily and weekly programming
- 5 year warranty*
- Integral management via WIFI**
- Patented Solar Manager Technology
- Single supply only***



+ Charges using low cost off-peak electricity or straight from solar power.
+ Ecombi SOLAR can operate as a back-up system to the main heating, consuming only the excess from the photovoltaic installation fed into the grid.
+ The Elnur "IEM" also manages the discharge to ensure that heat is available when needed.
+ Allows you to adapt the output of the heaters to the energy available
+ Intelligent WIFI control, via the additional G-Control Hub. Control Solar and on Peak power direct from the app or web app
+ SOLAR MANAGER Technology, manages the surplus and self-regulates and completes the charge based on a modulating operation.
+ Modulating performance based on percentage input set via g-control application only charge when enough power is being generated
+ Perfect electric heating product for those wanting to get the most out of their solar pv installation

Technical Features

- Static, programmable and self-regulating SOLAR storage heater with wifi control.
- Converts all the available self-consumption surplus into heating.
- TFT display with new highly intuitive panel control and lock function.
- Built-in daily and weekly programming.
- Integrated G Control System, remote configuration and control via Internet with wifi connection.
- Open window detection function for reduced energy waste.
- Adaptive start control.
- Built-in high-sensitivity digital thermostat 0.1°C with calibration option.
- Silent operation based on TRIAC technology
- Overheating protection on storage heating function.
- Automatic safety thermostat with manual reset.
- Built-in balancing heating element made of aluminium to supplement the stored heat as and when required.
- Stainless steel core heating elements and aluminium front panel.
- Steel structure powder coated in epoxy RAL 9010.
- Solar box accessory required for surplus control and management using the G Control System. Only one solar box needed per installation. It is offered as accessory.
- G Control System is compatible with Amazon Alexa and Google Assistant.



Model	ECOSSH158SOLAR	ECOSSH208SOLAR	ECOSSH308SOLAR	ECOSSH408SOLAR
Balancing element output** (W)	450	600	900	1200
Storage heater output** (W)	975	1410	2130	2830
Charge period	7h	7h	7h	7h
Charging (7h) (kWh)	6.82	12.2	18.3	24.4
Connection	240 V	240 V~	240 V~	240 V~
Frequency (Hz)	50-60	50-60	50-60	50-60
Length (cm)	55	72	95	117
Height (cm)	73	73	73	73
Depth(cm)	18	18	18	18
Weight (kg)	61	79	112	148
No. of blocks 7.5kg	-	8	12	16
No. of blocks 11kg	4	-	-	-

*Full warranty terms and conditions available at www.elnur.co.uk
**Solar box with G-control required for surplus control, management and integral WiFi management. One solar box per installation
***Single Supply only, cannot be installed with separate 2 electrical supplies. Constant power required at all times..

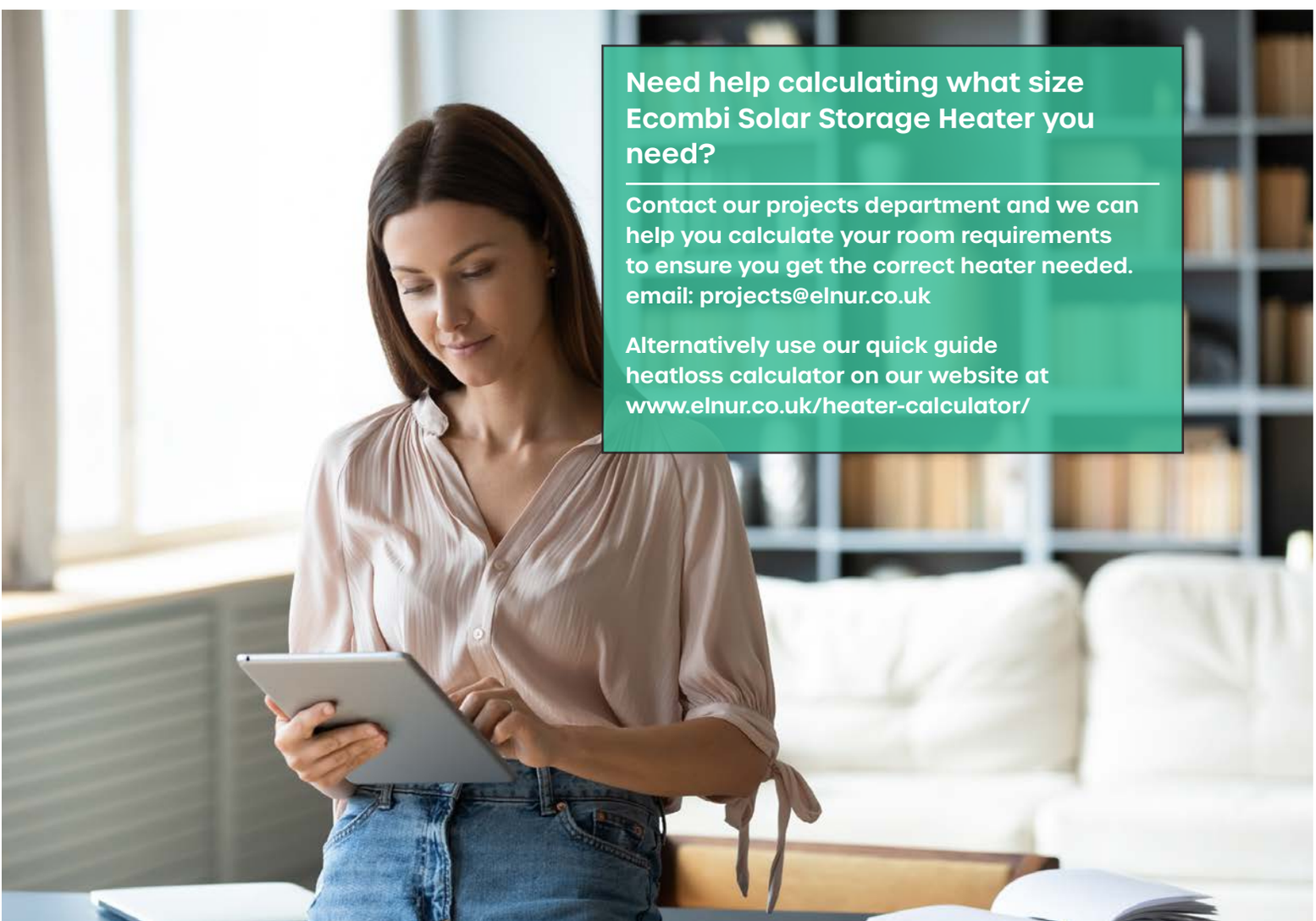
Solar Box Accessory

EcoDesign Lot20 Compliant

Solar Kit for the integral control and management of Ecombi

- Accessory required
- Accessory required to control Solar PV*
- Wireless connection through G-Control
- Only one Solar Box per installation
- Patented Solar Manager Technology
- Solar Box contains the USB control unit and meters required for the connection of the Ecombi SOLAR storage heaters with the G Control System.





Need help calculating what size Ecombi Solar Storage Heater you need?

Contact our projects department and we can help you calculate your room requirements to ensure you get the correct heater needed.
email: projects@elnur.co.uk

Alternatively use our quick guide heatloss calculator on our website at www.elnur.co.uk/heater-calculator/

Visit the Elnur website today

For the very latest information, product updates, downloads and advice, please visit
www.elnur.co.uk

See our range of Mattira Electric Combi and System boilers.

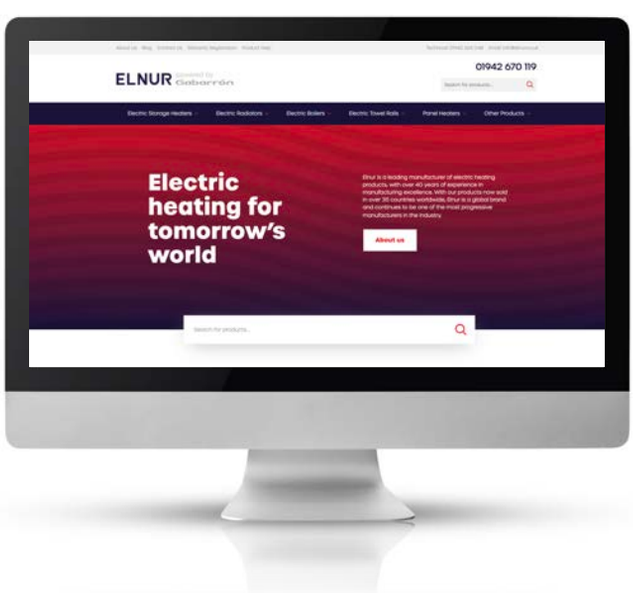
Read our industry blog for the very latest information and advice.

Watch our “how to” videos.

View and download our product brochures, case studies and installation/user guides.

Get hints and tips from the experts.

Register warranties for new Elnur appliances.



ELNUR

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

Headquarters
Elnur S.A.
Madrid (Spain)
export@elnur.es
www.elnur-global.com

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