Ecombí
The smartest storage heater

✓ 35% Energy Saving*.
✓ Maximum comfort.
✓ Total control.
✓ Ultimate efficiency.

With Ecombí, saving money is child’s play.

*Up to 35% energy saving compared to SH-M manual storage heater under ‘live’ testing. Full report available at www.elnur.co.uk
THE FUTURE IS ALREADY PRESENT WITH THE SMARTEST STORAGE HEATER
ECOMBI

INNOVATION AT ITS FINEST

ECOMBI is a new efficient heating system that both controls electricity consumption and optimises heat management. Our system is the most economical of the electric storage heating solutions available in the market.

The ECOMBI smart system assesses energy consumption and heat loss in the room every day in order to establish the heat needs precisely and effectively adjusting the energy required.

The arrival of ECOMBI is a real revolution in traditional heating systems. ECOMBI optimises control of the energy running costs, while providing maximum comfort. This electric heating system adapts to your daily needs whatever the weather conditions.

Could you ask for more? Well you can with the ECOMBI smart system.

Once autumn arrives, the temperatures and weather can be very unpredictable well into spring. The days can be cold, very cold or there may even be days when the temperatures are mild and pleasant. ECOMBI constantly monitors room temperature using its high-sensitivity thermostat to ensure that the room is always at the desired temperature. ECOMBI will guarantee you feel warm and comfortable all day long on the coldest days or it will adjust the amount of heat required on those warmer days by means of the ESICC (ECOMBI Smart Input Charge Control) module to adjust the amount of heat required on those warmer days. This will avoid any unnecessary extra energy consumption.

The best quality components available on the market and this exclusive ESICC electronic module, patented and designed by ELNUR, provide an outstanding level of performance and offer the user cheaper and customised heating. This is what the ECOMBI System, the most innovative and outstanding heating system and the only one of its kind on the market, is all about.

In the same way as the traditional storage heater, the ECOMBI system is designed to use the Time-Of-Use (TOU) or Time-Of-Day (TOD) low cost off-peak electricity.

This is efficiency and controllability at minimum cost!
ECOMBI AND THE TRADITIONAL ELECTRIC STORAGE SYSTEMS

During the autumn, the cold winter and into spring, your heating system will have to deal with different temperatures. The operation of a traditional Electric Storage System is simple: storing all the heat possible while it is being charged, coinciding with the Time-Of-Use (TOU) or Time-Of-Day (TOD) low cost off-peak electricity tariff, and releasing it into the room during the rest of the day.

The greatest advantage of these traditional systems is their ability to provide a comfortable temperature at a really affordable price all day long.

STATIC ROOM STORAGE HEATER

In the case of Static Storage Heaters, the charge control is regulated by different sensors according to the temperature readings taken inside the equipment, inside the room and also outside the home.

By incorporating these different sensors, Static Storage Heaters can help to cut electricity consumption by 15% compared to a manual storage heaters in the market which do not include these sensors.

A Static Storage Heater normally uses the complete off peak charging period to load its core of energy at 100%. It will release this stored heat during the release period.

FAN-FORCED STORAGE HEATER (ETS)

In the case of Dynamic Storage Heaters (Fan Forced), the charging is performed in a similar way, but the main advantage of this system is how the release of the stored heat is controlled and the option of the stored heat being released when the customer really requires it. These storage heaters are ideal for large and open areas.

If the user manages the temperature optimally, storage heaters can result in an energy saving of 25% compared to a manual storage heater.

A Fan Forced Storage Heater will not use the complete off peak charging period because it will not discharge completely the heat during the release period. It will only release the heat when it is strictly needed and programmed by the user.
HOW DOES ECOMBI SYSTEM WORK?

Ecombi is focused on the energy loading.

The CHARGING MANAGEMENT is, in fact, the CONSUMPTION CONTROL.

The target is to transfer all the loaded energy to the room.

Once autumn arrives, the temperatures and weather can be very unpredictable well into spring. The days can be cold, very cold or there may even be days when the temperatures are mild and pleasant. ECOMBI constantly monitors room temperature using its high-sensitivity thermostat to ensure that the room is always at the desired temperature.

Another of the major benefits of the ECOMBI system is that, in the case of a sharp change in temperature or unexpected heat loss in the room, it can provide additional heat using a back-up heater.

ECOMBI optimises control of the energy running costs, while providing maximum comfort.

Why spend more if I am going to need less?

The essence of ECOMBI System is the dynamic management of the energy charging and it is defined by our ESSIC technology.

ESICC (ECOMBI Smart Input Charge Control) electronic management module assesses the energy consumption and adjusts energy charging to cover the user’s comfort needs.

ECOMBI will only charge the real required energy to heat up the room. No more and no less. It will only be charged during the off-peak tariff.

This assessment and management will happen every single day and every single night!

This will lead to significant energy savings. The innovative ECOMBI System can reduce energy consumption by 35%*.

Besides this, with ECOMBI, room heat requirements can be programmed. Different periods of COMFORT TEMPERATURE AND ECO TEMPERATURE can be set up in a daily and weekly basis. Guarantying you a comfort time only when you need it.

* Up to 35% energy saving compared to SH-M manual storage heater under “live” testing. Full report available at www.elnur.co.uk

This is efficiency and controllability at minimum cost!
GREAT BENEFITS, GREAT VIRTUES
Extremely user friendly with just three simple steps

The ECOMBI control panel is highly intuitive. Thanks to its user-friendly system, it will take you just three simple steps to set the mode and desired temperature.

To set it in the Automatic ECOMBI Mode, push the “mod.” button until an “A” appears on the screen.

Use the “+” and “-” keys to select the desired temperature of the room.

And that is all it takes to enjoy the all day long comfort of the ECOMBI System.

Individualised control

The ECOMBI units have an individual thermostat for constant and separate control of the room heat requirements where it is installed. It is all included in each ECOMBI.

Possibility of managing different charging periods

ECOMBI allows different charging periods to be programmed during a single 24-hour interval. Each unit has its own digital timer to set the available Time Of Use (TOU) or Time Of Day (TOD) off-peak tariff periods.

The system is also pre-set up to be directly connected with digital meters in the future, which means that the electricity company itself could manage the energy charging of the system directly.

Delayed Charging

A very useful feature of the ECOMBI System that helps to optimise managing the energy is the delayed charging. If the off-peak tariff charging period is from 12.00 a.m. to 7.00 a.m. and ECOMBI has established that it needs to charge 50%, the charging will take place in the second part of the charging period. This means that the ECOMBI will be 100% ready at the start of the peak tariff period, thus making the most of cost-cutting potential. This feature may be turned on or off using the unit parameters.

Weekly programming

The ECOMBI system has a weekly programme feature to meet your needs.

You can programme your ECOMBI unit to run on the days of the week that you choose. This option is very useful when used in weekend homes or in offices, where there are days of the week when the system does not need to be run.

Comfort Temperature vs. ECO Temperature

Set up temperature can be programmed in a daily or weekly basis. The user can decide which periods of the day should be in Comfort temperature and in ECO temperature (±3°C). On weekends this program can be overridden.
ECOMBI SYSTEM INSTALLATIONS

To enjoy the desired level of comfort and lower costs provided by the ECOMBI System, an appropriate sizing of the room where it is to be installed is very important.

### Technical features
- Silent performance.
- Temperature sensor with calibration option.
- Overheating protection at storage heating.
- Safety thermostat with manual reset.
- Class I insulation.
- Convector heating element made of Aluminium.
- Storage heating elements made of stainless steel.
- Microtherm G 10mm insulation, vermiculite and ecological fibre.
- Front, side and real air isolating chambers.
- Storage core made of a specially designed material for ECOMBI.
- Steel structure powder coated in epoxy RAL 9010.
- Robust plastic fittings.
- Easy to install on any kind of wall.
- Very intuitive keyboard with lock option.
- Compatible with two-period off peak electric tariff in a single 24-hour interval.
- Daily and weekly programming.
- Deferred storage energy option.
- Storage, Combined storage, Convection, Frost protection and Automatic ECOMBI operation modes can be set up.

### ECOMBI SPECIFICATIONS

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<tr>
<th>MODEL</th>
<th>ECO158</th>
<th>ECO208</th>
<th>ECO308</th>
<th>ECO408</th>
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<td><strong>Convector output</strong> 230 V / 240 V W</td>
<td>450 / 490</td>
<td>600 / 653</td>
<td>900 / 980</td>
<td>1200 / 1307</td>
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<td><strong>Storage heater output</strong> 230 V / 240 V W</td>
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<td><strong>Charging (7h)</strong> kWh</td>
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*Storage heater elements and convector element will never operate at the same time.

### Customer Service

A product manufactured in accordance with the highest level of quality performance deserves to be complemented by excellent service. At ELNUR, all departments are customer-focused, offering quick and efficient solutions to any problems that may arise. If you have any queries, please email us at advice@elnur.co.uk or call us to the following telephone number 01942 670119.