AUSTRALIAN INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS (IOM Manual) Uncontrolled Document Number: HW 1901 Rev 2 Mar 2022 (This document may be updated without notice, check online or with supplier for latest version)

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HEATWAVE SOLAR OFF PEAK HEATER I.O.M.

Installation, Operation and Maintenance Manual



Introduction

This manual is designed for use by licensed electrical technicians to ensure the safe and compliant installation of Heatpac heaters in Australia and New Zealand.

There are regulations in effect for all room heating systems in every state of Australia and in New Zealand. We have included relevant references in this document wherever possible for each state and territory, however we recommend that installers check with power authorities and local regulators for any variations that may exist before installation.

Please read carefully and follow the instructions before unpacking and installing any Heatpac products. If any instructions are not clear or if you have questions, please contact our service support team;

Business hours (+61) 02 9668 8291 After Hours - M 0477 211811 Internet Online - More technical information will be available online at www.heatpac.com.au

Applications for Heatwave Solar Heaters

There's a pattern to how consumers use energy. High energy use times are typically weekday mornings, afternoons and evenings and that is when the heating usually needs to be available in colder months.

Reducing energy use at peak times on the grid is called load shifting and load shifting for a household means restricting the use of higher energy appliances during those times of the day when power is more expensive. HEATWAVE provides a way to collect solar and off peak energy when it is cheaper and then have it available for use during those times in the day when power is more expensive to buy from the grid.

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HEATWAVE is a better way to store energy <u>for heating purposes</u> than solar battery systems. Much like storing electricity in a battery, HEATWAVE stores heat energy in a bank of high density ceramic energy cells. This energy is then available on demand, for those times when it needs to be delivered into the home for room heating.



Heatwave Solar Controller for use with Rooftop Solar PV systems

The Heatwave Solar Controller uses excess solar power to heat your indoor heating unit. It uses an existing solar installation to save energy costs, and can be installed ready for a future solar power system.

The Heatwave Solar Controller is designed to be adjusted through the seasons, so 2-3 times a year.

In winter time it is possible to start the heating process with 2.5 hours of off-peak, and the rest done by your solar panels. As the days get longer, the 'Solar Only' setting can be selected as there is enough surplus solar heat your home to thermostat cut-off.



If there is a string of bad weather and less solar energy in production, the Heatwave Solar Controller uses instructions from the user adjustable buttons to help make that balancing act as effective as possible. The user adjustable Heatwave Solar Controller determines how much off-peak or night time tariff to use to start the heating process. This way there is a controlled amount of heating each night to ensure enough heating for the next day. The rest can be done by your surplus solar each day.

The number one priority for the Heatwave Solar Controller is to make sure you don't run out of hot water. The Heatwave Solar Controller has a built in algorithm that knows how best to use your free solar energy and your off peak electricity to make sure you always have a tank full of hot water.

What if the user forgets to adjust the system? The Heatwave Solar Controller is smart enough to account for this.

When set to Solar Only, the Heatwave Solar Controller will not use any other energy source to keep your water hot. If there are a number of cloudy days in a row then you may run out of heat.

When the Boost 2.5H or Boost 5H setting is selected, the Heatwave Solar Controller will try and turn on the Controlled Load (off peak) for that length of time each night, or until the thermostat opens and stops conducting energy. If the heater reaches thermostat cut-off from the solar before midday the next day, the Heatwave Solar Controller will reduce the Boost time by 12.5% each day. This will continue happening until the thermostat cut-off is reached after midday, which could mean that the Boost time is reduced to nothing.

As soon as the Heatwave Solar Controller misses reaching thermostat cut-off from the solar (The Heatwave Solar Controller can tell the difference between reaching cut-off from mains power or solar), then the set Boost time (2.5H or 5H) will start again that night. The process of reducing the boost will then start again.

The Heatwave Solar Controller is always performing the balancing act between heating efficiency every day to keep your home cosy, trying to use as much of your solar to do the job as possible.

The HEATWAVE system works with all Australian and NZ off peak supplies - ie **Controlled Load 1 & 2** as well as **ToU** (Smart meters).

OPTIONAL TIMER IF SOLAR CONTROLLER NOT USED - IE IN THE EVENT ONLY OFF PEAK POWER SUPPLY IS AVAILABLE Heatwave Programming for Off Peak power usage (INPUT programming)

Once the indoor heating unit is installed it will need to be configured by the installer to match the off peak periods available on site. If the unit is installed with the Heatwave Solar Power Controller it will automatically load the heater in off peak period between 11pm and 7 am. Alternatively, a DIN digital timer with min 20A contacts should be installed in the meter box to allow for this. Contact us for recommended units to suit your project.

Programming for Heating (OUTPUT programming)

Once the programming is completed for the input of off peak power, the installer will then use the Heatwave indoor wall mounted digital control panel to program a weekly heating output schedule that suits the occupant's lifestyle and temperature preferences.

More information about Input and Output programming is provided later in this document.

Operating features of HEATWAVE Smart Heaters

The <u>key distinguishing feature</u> of the HEATWAVE smart heater is the ability of its intelligent control system to learn the operating parameters of both the solar energy supply and the heating system at each location where it is installed. It uses a powerful digital controllers to achieve this.

It then monitors the heating requirement and available energy supply in real time and makes continuous automatic adjustments to improve efficiency and therefore save energy, reducing heating energy costs for the owner.

- Works with all off peak supplies ie Controlled Load 1 & 2 as well as ToU (Smart meters)
- Quiet, fan assisted circuslation mixes warm air with cooler air for efficient heat distribution.
- Several charging periods can be programmed during a single 24-hour interval.
- Smart indoor controller manages precise control over the released heat.



Energy Saving & Operating Cost Reduction

The HEATPAC system is cheaper to buy and install than a solar battery system in most cases, and it's also a more efficient way to use and store energy particularly whenever space heating is required.

HEATPAC's load shifting functionality makes a substantial difference to the annual cost of energy bills.

This is because the energy powering these heating systems is essentially lower cost energy supplied from the grid at off peak price levels.

The table below shows some typical Weekday time-of-use electricity costs. In this example the HEATPAC system is charged during the night at 15.86 cents per KW hour and provides heating during the day when it would otherwise cost from 26.17 up to 58.31 cents per hour.



HEATWAVE Product Range

HEATWAVE 4 is manufactured for the Australian market by a well established European manufacturer to ISO 14001 and ISO 9001 Quality and Environmental Control standards.

The equipment model numbers are as follows

HEATWAVE 4 Indoor	European Model - Elnur	Fan assisted Convection output = 4kW,	
Heating Unit	Gabarron ADL4024	Storage - 32 kWh, ceramic energy cells	
HEATWAVE Solar	Catchpower Green Solar Power Controller accessory Meter box		
Power Controller		mounted. Manages the solar and off peak power	
		output.	
HEATWAVE Wall	Heatermate Wireless	Digital programmable temperature controller	
controller		wall mounted 240V with Wireless capability.	
HEATWAVE WiFi	Heatermate WiFi	Optional HEATERMATE WiFi model allows	
Hub		connection to occupant's router for control via	
		devices	

HEATWAVE Product Specifications, Dimensions & Weights

Heatwave Solar Indoor Unit		Heatwave 4 Solar Heating System Indoor Unit Works with Rooftop Solar and all types of Off Peak power. Dynamic (Fan forced) Type for Larger areas and faster heat up. Output 4.3kW - Stored thermal energy 32 kWh - 240V 17.9A Room sizes 43m2 (@100Wm2) to 86m2 (@50Wm2) Dimensions cm-L 99 x H66 x W24 Weight - 225kgs
Heatermate Indoor Digital Controller		Heatermate Indoor Controller - Very easy to operate – simply turn it on and set your desired room temperature. Consists of Plug Unit and Control (Display) Unit Temperature sensor is located in Control Unit – place it in the room where you need to control room temperature Programmable Timer – program up to 4 periods with different room temperatures each day. Easy pairing via unique code – use multiple devices in the same house without interfering with each other Extra large LCD showing time, date and room temperature – can be used as thermometer/clock in standby mode Child lock – protects your settings from those inquisitive little fingers.
Heatwave Solar Power Contoller		Heatwave SPC Solar Power Controller diverts rooftop solar energy to the Heatwave indoor unit when it is in excess to household use. SPC uses excess solar power to charge the Heatwave indoor unit like a battery, to save hundreds of dollars every year. The solar controller collects a complete picture of power movements in the home all day, to allow off-peak to complete the charge if required. It is installed in the meter box and can be switched to heat hot water in Summer when the Heatwave unit is not in use. Switching capacity up to 4.8kW, 20A, 240VAC 50Hz.
Heatwave Complete Solar system		Full system - f+g+h above - Heatwave 4 Solar Heating System Indoor Unit plus Heatwave Indoor Controller - Self Learning temperature controller plus Heatwave SPC Solar Power Controller diverts rooftop solar energy to the Heatwave indoor unit
Optional - Heatermate Wifi model and App for remote operation		Very easy to operate – simply plug it in and set your desired room temperature. Quick Apple Store or Google Play App installation on your smart phone. Monitor and change the temperature/settings from your smart phone without going into the room. Large display showing date/time, heater ON/OFF status, SET temperature, current ROOM temperature, child lock status etc. Child lock – protects your settings from those inquisitive little fingers.

*(Please note the equipment has been modified and tested to comply with Australian and NZ Standards and HEATWAVE installations and equipment <u>must not be substituted</u> with imported or alternative units

All HEATWAVE equipment is 230~240V 1P 50Hz

Installation only by qualified & licensed trades.

Any private or commercial building in a region with some cool seasonal variations in Australia and NZ is a potential customer for a HEATWAVE system.

However traditional retail sales or even direct sales to consumers is not appropriate for these products as our first priority is safe installation and operation.

Therefore we only to supply to customers through a network of licensed electrical technicians (electricians) who are local to the customers' area and can provide personal representation, on site assembly and installation in a safe manner.

This will ensure connection to the building electrical system will be done professionally and efficiently and within all appropriate Australian standards eg AS/NZS 3000:2018 Electrical installations (known as the Australian/New Zealand Wiring Rules) and safety guidelines. We recommend local electrical tradespeople who are qualified, licensed and trained to install the systems including;

- a) Moving and installing heavy materials safely. Each HEATWAVE room heater is quite heavy once installed and needs to be delivered, assembled in-situ and fixed in place securely. It is delivered as a kit with the external heater casing and internal high density energy cells in separate parcels.
- b) Electrical installation within residential properties. These systems are "hard wired" and can not be simply plugged into existing power outlets in the home. Each state has varying regulations and licensing arrangements and so the use of local electricians is our method to meet the legal requirements of electrical equipment installation in all areas of Australia and NZ.
- c) Connecting to new and existing electrical systems and to controlled load and time of use electrical services in the property.
- d) Installing and programming the HEATWAVE controllers and training customers on their correct use to manage the system confidently.

Electrical Connection

The electrical connection must be carried out by a licensed electrician who must ensure that all electrical work is carried out in accordance with applicable regulations and standards.

We direct attention to AS/NZS 3000:2018 Electrical Installations (known as the Australian/New Zealand Wiring Rules)

In particular;

AS/NZS 3000:2018 2.6.3 Additional protection by residual current devices

2.6.3.2.2 Installation requirements -Australia only RCDs shall be installed at the switchboard at which the final subcircuit originates.

2.6.3.2.2 Domestic & Residential installations -Australia only 30mA RCDs shall be provided for all final subcircuits.

The AS/NZ AS/NZS 3000:2018 wiring rules require ALL final sub-circuits to be 30mA RCD protected.

This includes fixed electrical equipment like cooktops, hot water systems, air conditioning units and will therefore apply to all current Heatpac heating systems.

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- The requirements for a maximum of 3 circuits per RCCB, a minimum of 2 RCCBs and sharing of lighting circuits remain.
- It is recommended that each final sub-circuit is protected by a separate RCBO to avoid loss of supply to multiple circuits. For example-





AS/NZS 3000:2018 4.9 ROOM HEATERS

4.9 ROOM HEATERS

4.9.1 General

Where a permanently connected room heater, or a number of permanently connected room heaters, are installed in one room, an individual isolating switch and an individual functional switch shall be provided for each room heater or for each group of room heaters.

Where a number of permanently connected room heaters are installed in one room and are supplied by the one final subcircuit, a single isolating switch may be used for the room heaters in that room.

4.9.2 Isolating switches

In accordance with Clause 2.3.2.2, isolating switches shall be-

- (a) installed immediately adjacent to an entrance to, or within, the room where the room heater is located; or
- (b) installed on the switchboard at which the room heater final subcircuit originates.

Isolating switches may be incorporated in temperature-control devices, provided that they have a definite 'OFF' position.

4.9.3 Functional switches

In accordance with Clause 2.3.7, functional switches shall be installed in a readily accessible position in the same room, or immediately adjacent to an entrance to the room, in which the room heater or room heaters are located.

A functional switch may be-

- (a) an appliance switch or switches with an 'OFF' position incorporated within the room heater; or
- (b) an isolating switch provided in accordance with Clause 4.9.2(a).

Isolating switches – The use of a correctly selected RCBO on the heater circuit as indicated above would meet the requirement in the new standard for an individual isolating switch on permanently connected heater circuits.

Functional switches – Every HEATWAVE heater should be isolated with a 20A appliance switch to be installed adjacent to the unit as per clause 4.9.3 in AS3000, shown above. This would meet the requirement in the new standard for a functional switch for the room heater.

Power requirements

The model number, required voltage, rated load and fusing rating can be found on the data plate on the outside lower right hand side of each unit.

Connection to a supply voltage other than the one quoted on the data plate can lead to functional faults and damage to the unit, thus voiding any warranties.

Before connecting the heater to the electricity supply, please ensure that the mains supply voltage complies with the values given on the data plate.

Note - For the installation of a single or several HEATWAVE units the collective peak power requirements may be high, so it is the responsibility of the installer to ensure that power cable and breaker sizing is correct and there is sufficient power available to the system/s once in use.

Using a single supply circuit for HEATWAVE units (ToU tarrif -Smart Meter) (eg Used for Time of Use ToU "Smart Meter" systems).

1. For ToU and smart meter installation - There may be a single meter installed and the householder may be on an "unrestricted" tariff variant from their energy provider, which allows the whole house supply to operate 24/7 and charge the off peak tariff price for all consumption during the off-peak period(s) and the higher tariff price during all other hours.

Note: The current energy supplier should be consulted to confirm if the meter is the correct type and if the tariff type as detailed above is in current operation or is available from them in their area.

2. With the correct meter installed and tariff in use, wiring changes can be done at the heating consumer unit or split load consumer unit where the storage heaters are connected. The supply to the storage heaters side of the consumer unit can now be changed to the same household supply.

If the system is operating on Off Peak <u>only</u> and not with the use of a Heatwave Solar Controller, an additional timer is needed when supplying the heaters and it **is important that the timing of the off peak period matches the timing set to the heaters otherwise running costs will be higher.**

3. On the heaters:- The storage heater timer-controlled supply can be connected to the restricted terminals in the storage heater and the unrestricted terminals are connected to the normal 24hr supply. Spade connectors on the terminal block allows for easy connection although wiring can also be made via the terminal block itself.

Figure A - Standard terminal block for HEATWAVE showing Restricted Supply (Controlled load) and Unrestricted supply (Uncontrolled load) connection layout. Terminals 1,2 & 5 are for restricted supply from off peak or solar power, charging the heater elements. The unrestricted supply provides permanent power to the indoor unit controller and the heater's fan on/off temperature control function.



Figure A – see enclosed user manual and Heatwave wiring diagram for detailed connection information.

Note: A new, Australian/NZ approved cable and isolator switch rated for the heater's power should be used if required to connect the appliance in a single circuit application.

<u>Note – In all cases when using a single supply connection for HEATWAVE, the new single supply</u> <u>circuit must come directly from the Distribution Board, solely serve the new storage heater/s, and</u> <u>have RCBO protection as previously outlined in "Electrical Connection".</u>

As per AS/NZ 3000 All new Electrical installations must be undertaken by a competent person, meet the current regulations and be tested/certified.

Electrical Safety Compliance Certificates

Issuing certificates of compliance

It is the installer's responsibility to check and issue a Certificate of Compliance for Electrical Work or equivalent if required in their local state or territory.

Most states and territories require Electrical contractors, and workers completing work on behalf of an electrical contractor, to provide their customers with either a:

'certificate of testing and safety' for work on electrical equipment 'certificate of testing and compliance' for electrical installation work.

For example in NSW it's the installer and tester's responsibility to make sure the following parties receive a copy of the NSW CCEW (Certificate of Compliance for Electrical Work) :

- 1. For any electrical work to the person (customer) for whom the work is carried out.
- 2. For new electrical installations customer, distributor and Fair Trading
- 3. Any alterations or additions to an existing electrical installation that will require additional work to be done in relation to the network connection for the installation customer, distributor and Fair Trading,
- 4. Work on a switchboard or associated equipment customer, distributor and Fair Trading
- 5. Electrical installation work for an installation using a stand-alone power system customer and Fair Trading
- 6. Installation, alteration or replacement of an electricity meter customer and Fair Trading

Electrical contractors usually must keep a copy of these certificates for the nominated period of time.

Records and copies of certificates

Installers should give a certificate to the customer as soon as possible after completing the work.

Most certificates must state the following:

- the name and address of the person for whom the work was performed
- the details of the electrical equipment or electrical installation tested
- the day the electrical equipment or electrical installation was tested
- the electrical contractor licence number under which the electrical equipment or electrical installation was tested.

In addition to the above, a certificate must contain a suitable certification statement. For example:

- <u>electrical equipment</u> a statement that certifies the electrical equipment (to the extent it is affected by the electrical work) has been tested to ensure it is electrically safe
- electrical installations a statement that certifies the electrical installation (to the extent it is affected by the electrical work) has been tested to ensure it is electrically safe and is in accordance with the requirements of the wiring rules and any other standard applying under the Electrical Safety Regulation to the electrical installation.

A sample certificate (Worksafe Qld) is shown below as an example of what may be required;

	TESTING AND COMPLIANCE (Electrical installations)
CERTIFICATE OF:	TESTING AND SAFETY (Electrical Cathol Catholic Control of Catholic
(rease man recram crear box)	lassed in accordance with s26 of the Electrical Safety Regulation 2013
* Work performed for:	
Name	
* Address	
Street	
Suburbitown	Postcode
* Date of test _ / _ /	* Electrical contractor licence number
* Date of test / / Name on contractor licence	* Electrical contractor licence number
* Date of test / / Name on contractor licence Electrical contractor phone m	* Electrical contractor licence number
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* Date of test 1 1 Name on contractor licence Electrical contractor phone m For electrical installations, affected by the electrical wo accordance with the requirer the Electrical Safety Regulati For electrical equipment, th by the electrical equipment, the by the electrical work, is elect	* Electrical contractor licence number umber

We recommend all installers check with their local state or territory to make sure they have tested all new installations and issued a completed compliance certificate as required by law and keep a copy for their records.

Safe handling for delivery & installation

All Heatpac heating units are heavy and safe handling should be considered both when taking delivery of the units and also when delivering and installing them on site.

The heaters are delivered in kit form for final assembly by the installer on site within the zone to be heated.

Once assembled, the <u>units can not be lifted or moved</u>, so choose a final location carefully and check with the client to have their agreement before work begins. The largest component being the casing for the unit, supplied in a cardboard carton should be unpacked as per the following instructions first and placed in the final location before bringing the energy cells to the unit and fitting them.

We recommend the use of a suitable rated hand trolley to move the Heater casing and the heavy ceramic energy cells.

We <u>strongly recommend</u> the wearing of **steel capped safety footwear and gloves** as the ceramic energy cells are heavy and have sharp edges, dropping them on feet or fingers and hands could result in serious injury.



Make sure the floor structure is sound and suitable for the weight of the units.

Carpet and other soft floor coverings may require to be cut around the feet of the heater to allow it to sit firmly without settling and movement.

Unit weight installed-	
HEATWAVE 4 INDOOR UNIT	NSTALLED WEIGHT
99CM WIDE, 66CM HIGH, 24 CM THICK	225 KG



Û Note- This circuit not to be used if smart meter/TOU.

Off Peak must be on the same phase as the mains terminal Suitable RCBO nust be fitted between the solar Power Manager unit and the Heatwave Heater

All electrical work and cable sizing must be in

accordance with AS3000

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"HEATWAVE 4" SOLAR / OFF PEAK **CIRCUIT SCHEMATIC**

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Heatwave+Greencatch+Heatermate

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WIRING HEATWAVE TO THERMOSTAT TYPE CTM 20



INSTALLATION INSTRUCTIONS AND USER GUIDE

CE



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ADL 2012 ADL 3018 ADL 4024 ADL 5030

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

1. WARNING

- Please read these instructions before installing or using this appliance for the first time. The warranty of the storage heater will not cover any damage caused by non observance of any of these instructions.
- This Guide must be kept and given to any new owner.
- 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. Children must not play with the appliance. Cleaning and user maintenance must not be made by children without supervision.
- Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or 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. Children aged from 3 years and less than 8 years shall 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. Please check that the voltage in the rating label fits the power supply.
- Should the heater be moved and reinstalled it is essential that the work is carried out by a fully qualified engineer.
- If during any installation the thermal insulation shows any sign of damage, it is necessary for the faulty part to be removed and replaced by an identical part.
- The use of storage heaters is forbidden in any area where there is a presence of gases, explosives or inflammable objects.
- Do not use this heater to dry clothes. Do not cover this heater or put objects in contact.
- The air outlet grill at the top of the heater cabinet and the air inlet at the bottom of the heater are provided to ensure the most efficient operation of the appliance. They also protect the heater from overheating; therefore, it is essential that at no time are they covered.
- Surfaces of this appliance could be hot. Children should be supervised to ensure they do not play with the heater.
- Check the voltage in the rating label is the same than supply.
- This heater should be switched off at the isolating switch before any repair work is carried out. This action should also be taken during the times of the year when heat is not required.
- The installation of the heaters must be carried out in such a way that each pole can be disconnected from the supply having a contact separation of at least 3 mm.
- The storage heater should not be installed just below an electrical socket.
- The appliance must be installed in such a way that it is impossible for anyone using a bath or shower, to touch the controls. Never touch the heater with wet hands.
- The nominal charging time of this storage heater is indicated on its rating plate and must be controlled by means of a programmer.
- The installation must be carried out in accordance with the current electrical regulations.
- This appliance must be earthed.
- After installation a survey of the first charging cycle should be carried out to ensure that the main input thermostat switches off. Ventilate the room during this first cycle.

- Before carrying out any work inside the appliance, the heater must be disconnected from the electricity supply.
- Never open a charged heater.
- To maintain stability, it is essential that the heater is placed on a level surface and care should be taken to avoid irregular surfaces, such as may result from carpets or tiled surrounds partially protruding under the heater.
- The presence in the air of particles of smoke, dust and other pollutants could, in time, discolour the walls and surfaces around the heater.
- CAUTION Some parts of this product can become very hot and cause burns. Particular attention must be given when children and vulnerable people are present.



WARNING: In order to avoid overheating do not cover the heater.

2. INTRODUCTION

Storage heaters are designed to take advantage of the considerable economical benefits of any restricted hour electricity tariff.

The heaters consume electricity only during the off-peak tariff, but due to the highly efficient storage medium, give you a truly economical 24 hours of comfort temperatures.

The input control operates a highly sensitive thermostat which regulates the amount of heat stored.

The discharge takes place when the built-in blower operates. The blower drives fresh air through the core and is heated. A bimetallic device mixes the hot air with fresh air to provide homogeneous temperature.

It is important that the correct rating of heater is installed to provide the selected level of heat. This will ensure the best possible running costs against other fuels.

To avoid transport problems, the heater casings and storage bricks are packed separately. The bricks with some slight defects in the corners can be used.

You should be aware that storage heaters, when fully charged, can have high surface temperatures.

3. INSTALLATION INSTRUCTIONS

Installing the controlled storage fan heater:

1.- Chose the right place to install the heater, considering the minimum distances between heater and other objects. It is needed a minimum distance of 50 cm to assure a good heat delivery.

2.- Open the carton box by the indicated side, and remove the box containing the accessories, electrical elements and parts to fix to the wall. Turn upside down the box so the heater stands up on its feet and remove the shipping carton. Check the type is the asked and it is O.K.

3.- Screw on the wall the fixing part, making drills at 61 cm over de floor (Fig. 1).



This device prevents the heater overturning when a force of up to

20kg is applied to the upper parts to the exterior. The function of the device is not to hang the heater. If there is any doubt as to the strength of the wall, please consult an expert. Storage heaters are very heavy and the installer must ensure that they are securely fixed and there is no possibility of them overturning.

4.- Remove the front outlet grill by removing the four screws. Remove also the front panel by removing the two screws at the bottom of the heater.

5.- Attach the LH & RH spacers to the storage heater using the screws supplied, in the same way as the screws are fixed in the upper rear section of the heater side. Check the heater is separated 25mm from the wall at the top and bottom of the heater (Fig. 2). Fit and screw the appliance to the anti-tilt device.

6.- Remove the inner front panel.

WARNING !

At the other side of this part there is a breakable panel of thermal isolation. It must be handle with care. Avoid touching it.



7.- Place a row of storage bricks carefully, with the flat side heading the bottom of the heater. Insert one of the heating elements in the holes in the right side insulation (Fig. 3).



8.- Check that the heating element rests completely on the bricks without restricting a new row (Fig. 4).

9.- Arrange two new rows of bricks, ensuring the flat side of each bricks is facing towards the bottom of the heater, and insert a new heating element. Repeat the operation for the third heating element. Place the last row of bricks also with the flat side toward the bottom of the heater. Check there is no gap between bricks.

10.- Connect the heater following the enclosed diagram. Ensure all connections are correct and that no connection is damaged. Do not leave any remaining wire inside the heater.

11.- Refit the inner front panel. If the bricks have been fitted correctly you will find no difficulty during this action.

12.- Attach the front panel by hanging it on the "V" in the upper part and securing it at the bottom with the two screws.

13.- Finally, fit the outlet grill with the four screws.

INSTALATION OF THE WIRELESS AMBIENT THERMOSTAT (OPTIONAL).

- Fix the module to the wall vertically.
- Connect the module following the attached diagram and the color code.
- Do not leave any remaining wire inside the heater.
- The wireless ambient thermostat has its own instructions.

fig. 5

4. USING THE HEATER

The input control allows leading the heat you want to store during the night.

On mild weather it is enough to set the input control at intermediate positions, you can set the input control at maximum position if necessary. In this position the heater stores the maximum energy.

Controlled storage fan heaters deliver their heat from a highly insulated core by means of a silent fan. This fan should be managed by a good remote thermostat.

During the first cycles some odors are possible; in this case ventilate the room until they disappear.

5. MAINTENANCE OF YOUR STORAGE HEATER

This controlled storage fan heater does not need any special care. Dust accumulated on the heater surface can be removed using a wet cloth when the controlled storage fan heater is cold. Do not use dissolvents or abrasive products.

Night storage heaters ADS are manufactured under an assured quality system using environment friendly procedures.

Please take the heaters to a clean point once their useful life is finished, in order to recycle their materials in the right way.

6. TECHNICAL SPECIFICATIONS

Model	ADL 2012	ADL 3018	ADL 4024	ADL 5030
Input	2000W	3000W	4000W	5000W
Voltage	220– 240V~	220– 240V~	220– 240V~	220– 240V~
Charging time	7 h	7 h	7 h	7 h
Energy storage	14 kWh	21 kWh	28 kWh	35 kWh
Total weight	123 kg	173 kg	225 kg	277 kg
Lenght	63 cm	81 cm	99 cm	117 cm
Wide	24 cm	24 cm	24 cm	24 cm
Height	66 cm	66 cm	66 cm	66 cm
Bricks	12	18	24	30





EN: WARNING: In order to avoid overheating do not cover the heater.

EN

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 city office, your household waste disposal service or the shop where you purchased the product. These instructions are only valid in the EU member states.

OWNER'S MANUAL EN HEATERMATE WIRELESS

Thank you for choosing Heatermate Wireless. This programmable temperature controller will provide you with comfortable home environment and will help you to save energy.



Control Unit

Plug unit

ON/OF

D Δ

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1. Insert 2 AA batteries into Control Unit.

- 2. Press POWER button to turn Control Unit ON -TARGET temperature will be displayed under CURRENT temperature.
- 3. Plug Plug Unit into power socket.

1. Quick Start-up Guide

- 4. By pressing UP/DOWN buttons on Control Unit, select your desired TARGET temperature.
- 5. Plug your heater into Plug Unit.
- 6. The temperature sensor is located in the Control Unit, please place it in the room where the temperature needs to be controlled.
- 7. If child lock is activated, press and hold **DOWN** button for 3 seconds to deactivate.

2. Speficiation

Control Unit

Temperature range	0~60 °C
Current Temp. Resolut	ion0.1 °C
TARGET Temp. Resolu	ution1 °C
Power supply	3V(2pcs* AA 1.5V)
Max.Rang	20 meters in open land
Transmission Frequen	cy433.92Mhz
Product demension	
Net weight	
Wall mount holder & Ta	able stand

Plug Unit

Max. operation voltage/Frequ	ency240V/50Hz
Max.current/Load	10A/2400W
Product dimension	132x62x76mm
Weight	140g

3. Buttons

Control Unit

- 0 LCD: Indicate working status
- ð LCD: **CURRENT** temperature(room temp.)
- LCD: TARGET temperature(wanted temp.)
 LCD: Display CLOCK/HEAT/COOL programs
- 5 Pairing button (((m))) : * Turn on backlight for 5 seconds
- * Send signal to the Plug Unit 6 **DOWN** button:
- * Set target temperature/Set Clock(-) * Child lock
- **O UP** button:
- * Set target temperature/Set Clock(+) * Switch between HEAT/COOL mode
- 8 OK button: confirm setting value/set P1~P8 ğ SET button:
- *Setting mode *Activate all programs/Deactivate all programs
- **D POWER**() button: *Go into Standby Mode or Operational Mode.
- Wall mounting hole 1
- Room temperature sensor 12
- B Battery compartment



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4. Pairing Code

When you unpack this product, the Plug Unit and the Control Unit come already uniquely paired to each other and are ready to use. If pairing is lost or pairing of another Control Unit to the Plug Unit is required, it can be done as follows:

Press and hold ON/OFF button(1) for 3 seconds - blue LED will start flashing. While LED is flashing press Pairing button(6) on the Control Unit to send the pairing signal to the Plug Unit. Once the pairing signal is received by the Plug Unit the LED will stop flashing and will go out. The Plug Unit and the Control Unit are now uniquely paired (wirelessly connected) to each other.

NB:

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*After connecting/pairing successfully once, Plug Unit will memorise the pairing code and will not need to be paired again if it is disconnected from power.

*Two (or more) Plug/Control units sets can be operated in the same household without interfering with each other, as each Plug/Control unit set is connected via a unique pairing code.





1. When you first insert batteries into Control unit it goes into Standby Mode (Pic.1)

2. Pressing POWER button will activate Operation Mode which is set to HEATING (flame symbol) by default (Pic.2). Pressing UP/DOWN buttons allows to select TARGET temperature.

3. Press and hold SET button for 3 seconds to enter into day/time setting mode. Weekday will be flashing - set weekday (MO-SU) by pressing UP/DOWN buttons, then press OK to proceed with setting up hours and minutes in similar manner, then press OK to save and exit.

For example: we set CLOCK as 20:07 on Monday (see Pic.2).

6. How to switch between Heating&Cooling Modes

1.In Operational Mode press UP button for 3 seconds to enter selection between Heating (default) and Cooling modes - flame or snow symbol will be flashing.

2.Press UP/DOWN button to select.

3. Press OK button to save and exit.

4. The current mode symbol (flame or snowflake) will be showing in Standby Mode. (Pic.1).



Plug Unit

- LED indicator: indicate on/off status
- **(b)** ON/OFF button:
- Manually turn OFF and turn ON - Pairing code
- **1**6 Socket
- Rating label
- B Plug

7. Setting HEAT/COOL program There are 8 programs available P1-P8:

P1~P4 for HEATING P5~P8 for COOLING

Each program has a TARGET temperature, and a time interval defined by Start Time and Finish Time.

1. To start programming, in Operational Mode, press *OK* button for 3 seconds - the settings for P1 program will come on the screen. Short press *OK* – TARGET temperature for P1 will begin to flash – set it by pressing *UP/DOWN* buttons - press *OK* when finished – Days of the Week for P1 will begin to flash - by pressing *UP/DOWN* buttons set Days of the Week and press *OK* when finished – Start Time Hours for P1 will begin to flash - set by pressing *UP/DOWN* buttons and press *OK* when finished – P1 Start Time Minutes will begin to flash – set P1 Start Time Minutes by pressing *UP/DOWN* buttons and press *OK* when finished. Continue on with setting up P1 Finish Time in similar manner.

2.When you finished with programming P1, pressing **SET** button will switch to the next program: P1 -> P2, P2->P3 etc. Repeat above steps to program up to 4 time intervals for HEATING and up to 4 time intervals for COOLING, as required.

3.When programmed interval (e.g. P1) is finished and no interval is programmed after it, the settings will revert to the settings of the manual Operational Mode.

4. To activate all programs short press **SET** button – OFF sign will be flashing – by pressing **UP/DOWN** buttons select ON then press **OK** – P symbol will appear next to time on display – all programmed intervals are now active.

5.To deactivate all programs follow the above procedure and select OFF – P symbol will disappear from the display– all programmed intervals are now deactivated.

— 8. Operating Principle Heating Mode:

1.When **CURRENT** temperature drops below **TARGET** temperature by more than 0.5°C, Control Unit will send signal to Plug Unit to turn it ON. Plug Unit LED goes ON and flame symbol appears on the screen of Control Unit. Plug Unit is now supplying power to your heater .

2.As the room starts to warm up, *CURRENT* temperature will be rising and when it reaches *TARGET* temperature Control Unit will send signal to Plug Unit to turn it OFF. Plug Unit LED turns OFF and flame symbol disappears from the screen. Your heater in now OFF.

3.In accordance with the above, in HEATING mode Control Unit will maintain the room temperature between *TARGET* temperature and *TARGET* temperature minus 0.5°C.

Cooling Mode:

4.When CURRENT temperature rises above **TARGET** temperature by more than 0.5°C, Control Unit will send signal to Plug Unit to turn it ON. Plug Unit LED goes ON and snowflake symbol appears on the screen of Control Unit. Plug Unit is now supplying power to your air-conditioner.

5.As the room starts to cool down, *CURRENT* temperature will be decreasing and when it drops down to *TARGET* temperature Control Unit will send signal to Plug Unit to turn it OFF. Plug Unit LED goes OFF and snowflake symbol disappears from the screen of Control Unit. Your air-conditioner is now OFF.

6.In accordance with the above, in COOLING mode Control Unit will maintain the room temperature between TARGET temperature and TARGET temperature plus 0.5°C.

——9. Other functions Child Lock

In any mode, child lock will be activated if no input is detected for 10 minutes - the child lock symbol($\widehat{\square}$) will appear at the top of LCD (see Pic.3). Press **DOWN** button for 3 seconds to deactivate child lock.



Manually turn Plug Unit ON/OFF

Press ON/OFF button() to turn Plug Unit OFF. When Plug Unit is in such manual OFF state, Control Unit will no longer control it. To resume automatic control Plug Unit needs to be manually turn ON by pressing button() again.

Return to Factory Settings

To return Control Unit to factory settings press UP and DOWN buttons simultaneously for 3 seconds – the screen backlight will flash four times while Control Unit returns to factory settings. NB:The pairing with Plug Unit will not be lost after

factory reset.

Setting mode time out

During setting, if no input is detected for 10 seconds, Control Unit will automatically return to Operational Mode.

— 10. Clearning and Disposal

- When cleaning, the product must be disconnected from power socket.
- Only use dry and soft cloth to clean Plug Unit and Control Unit.
- Do not use abrasive or solvents.



- In order to protect environment, the user should return unserviceable product to relevant facilities in accordance with statutory regulations.
- The crossed-out wheeled bin indicates the product needs to be disposed separately and not as municipal waste.

- 11. Warranty and Technical Support

This product comes with 2 years manufacturer warranty – please contact your place of purchase for warranty replacement. For technical support please contact us via www.heatermate.com.au

Gabarrón

ELNUR SA

TRAVESIA VILLA ESTHER 11 28110 ALGETE (MADRID)

Wi-Fi PROGRAMMABLE THERMOSTAT

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Installation and use manual

- · Wireless connection to the Smartbox
- Equipped with a back-lit LCD display with "White-LED" technology
- · Easy to program via APP
- Weekly programming
- Battery powered (not included)
- "All glass" finish for a pleasant and modern design

ENGLISH

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The installation and electrical connection of the devices and appliances must be implemented by qualified personnel and in conformity with current laws and regulations.



Carefully read the instruction manual before using the product as it provides important guidelines regarding safety, installation and use. The instruction manual must be preserved with care for future reference.

- Ensure the product is intact once it is removed from its packaging.
- Packaging components (any plastic bags, PVC suspensions, etc.) must be kept out of reach of children.
- The programmable thermostat is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or by those with a lack of experience and knowledge of the instructions, unless they are supervised or have received the necessary instructions concerning use of the device by a person responsible for their safety. Children should be supervised to ensure that they do not play with the device.
- If necessary, clean the programmable thermostat with a slightly damp cloth.



This symbol on the product or its packaging to indicates that this product shall 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, such as for example:

- sales points, in case you buy a new and similar product;

- local collection points (waste collection centre, local recycling center, etc...).

DISPOSAL OF ELECTRICAL & ELECTRONIC EQUIPMENT

By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handing of this product.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your house hold waste disposal service or the shop where you purchased the product.



Important: for the system modes and operation of the WIFI temperature control system and for correct installation, also see the specific manual of the smartbox and of the APP.



Radio frequency waves emitted by the wireless programmable thermostat are not a risk to human or animal health.



Important: the manufacturer shall not, under any circumstances, be liable if the products fail to operate due to the interruption of the internet network or unavailability of these resources: Cloud, Server, Portal.



Important: internet access costs are charged to users according to the rates of their mobile phone provider.



Important: the manufacturer reserves the right to introduce any technical and/or constructive changes deemed necessary, with no prior notice.

KEYS



4

DISPLAY



INSTALLATION Radio range warnings

During installation, some precautions must be taken in order not to limit or, in some cases, inhibit the range of the radio waves between Smartbox and Programmable thermostat, in particular:

- install the appliance away from metal furniture or structures which could alter or screen propagation of radio signals;
- make sure that there are no electrical or electronic devices (television, microwave oven, etc.) within a range of at least 1 m from the appliance.

Note: if there are no obstacles between the Programmable thermostat and Smartbox, the "open air" range is approximately 200 m; indoors with the presence of walls, the range is approximately 30m (see "technical data").

Radio range decreases significantly when the components are interposed between the obstacles. This attenuation varies in different degrees depending on the type of material the walls or barriers to cross are made of.

The presence of noise or electromagnetic interference sources can also reduce the indicated radio range.

Below are some examples of mitigation related to materials, which impact on the "Free air" range declared above.



radio range reduction of 65%÷90%

INSTALLATION DIMENSIONS



Programmable thermostat installation: independent fixed

Wall mounted - onto a recessed rounded box or with a rectangular 3 module box.

INSTALLATION EXAMPLE





Install the programmable thermostat preferably at a height of 1.50 to 1.60 m from the floor, far from sources of heat, air inlets, doors or windows and anything that may alter its operation.

FASTENING THE WALL BASE

- Switch off mains power 230V~ to device
- Fasten the base of the programmable thermostat with the screws supplied: to the wall, to the rounded or rectangular recessed box via the relative paired holes A.



- A base fastening holes: wall-mounted, round or rectangular recessed box
- **B** wire passage from corrugated tubes, round or rectangular recessed box
- C programmable thermostat hooking teeth
- D programmable thermostat fastening slot
- E screws to fasten the wall base to the rectangular or round recessed box.



To ensure the programmable thermostat is fitted correctly to the wall-mounted base, the latter must not be bent due to the screws being tightened too much to the rounded or rectangular recessed box.

ELECTRICAL CONNECTIONS



Important: the installation and electrical connection of the devices and appliances must be implemented by qualified personnel and in conformity with current laws and regulations. The manufacturer declines all liability in connection with the use of products subject to special environmental and/or installation standards.

Relay terminals

- connect the device to be controlled to the terminals:
 - 1 common (C)
 - 2 normally closed contact (NC)
 - 3 normally open contact (NO)

Examples of electrical connections

Connection to a boiler





Disconnect the 230V~ mains voltage that powers the devices to be controlled

Connection to a motorized valve



FASTEN OR REMOVE THE PROGRAMMABLE THERMOSTAT TO/FROM THE WALL-MOUNTED BASE

After having made the electrical connections:

- . Apply the terminal cover to the base, securing it to hook E
- . To remove the cover, use a small screwdriver on hook E for leverage.





Hook the programmable thermostat to the wall base in teeth C. Then press the programmable thermostat at the bottom to complete fastening in slot D.



SIGNALLING BATTERIES LOW OR DOWN

When the \blacksquare symbol blinks, this indicates that the batteries are running out and as from this moment there are 15 days to replace them.

Note: the backlight of the display is automatically deactivated.

If the discharged batteries are not replaced within this time the display will completely turn off.

All thermoregulation is suspended and all settings are saved to be restored when the new batteries are inserted.

INSERTING OR REPLACING BATTERIES

Unhook the programmable thermostat from the wall base (see previous paragraph)

Insert the batteries, respecting the polarity.

Hook and fix the programmable thermostat to the wall base (see previous paragraph)





Attention: battery life may be more than 2 years. However, it is recommended to replace them at least every 24 months to avoid them running out when you are away (e.g. Christmas holidays, etc.)

ONLY USE GOOD QUALITY ALKALINE BATTERIES

(Duracell or Energizer batteries are recommended)

3V dc power supply

2 x 1,5Vdc LR6 - AA (not included)



Dispose of flat batteries in appropriate containers and as required by the environmental protection regulations.

PROGRAMMABLE THERMOSTAT ASSOCIATION TO SMARTBOX

The programmable thermostat must be coupled to the Smartbox with the specific PERRY PROGRAMMABLE THERMOSTAT APP. Instead of association via APP, you may associate the programmable thermostat by pressing the association key on the Smartbox for 3 seconds and the two external buttons (O+Link) on the programmable thermostat for 3 seconds.



If no aerial symbol appears on the programmable thermostat, repeat the operation above.

If the aerial symbol contract appears on the display of the programmable thermostat, it means that it has been associated correctly to the Smartbox.

If the symbol of the crossed-out aerial \bigotimes appears on the display of the programmable thermostat, it means that it has been associated correctly but there are communication problems with the Smartbox. Make sure that the two devices are not too far apart or that there are no objects or walls significantly shielding the radio signal.

THE PROGRAMMABLE THERMOSTAT CAN OPERATE IN 3 DIFFERENT MODES:

Auto: the set temperature changes automatically depending on the program set via APP.

Override: this is a temporary mode activated when the temperature is modified directly by the user; the change remains valid until the next programmed change.

OFF: the programmable thermostat was switched off directly by the user, it suspends all temperature control and can be remote-controlled.

If the programmable thermostat is not associated to a Smartbox, it cannot operate in Auto mode.

Override mode:

by modifying the temperature using the arrows Are the override symbol 🕅 appears on the display.

To exit the override mode, wait for the next programmed change, or press the kev (1) twice.

OFF mode:



Pressing the key \oplus suspends all temperature control, the programmable thermostat can be remote controlled via APP.

To exit the OFF mode, press 🕐 again and the programmable thermostat will go back to Auto mode.

OPERATIONS CARRIED OUT DIRECTLY BY PROGRAMMABLE THERMOSTAT

Key lock



To lock the keyboard, simultaneously press the keys $\blacktriangle \forall$ for 3 seconds, and the lock symbol \square will appear on the display.

To unlock the keyboard, simultaneously press the keys \blacktriangle for 3 seconds, and the lock symbol \bigcap will disappear from the display.

Reset



To restore the programmable thermostat to default conditions, perform the reset operation by simultaneously pressing the keys: (1) $\blacktriangle \forall$ for 3 sec.

The text reset.

The programmable thermostat $\underline{\textit{loses association with the smartbox}}$ e and programming is cancelled.

Note: the programmable thermostat will also be removed from the APP (see APP instructions)

Default settings:

·Programmable thermostat mode: OFF

·Set temperature: 18°C

·No RF radio connection (no association to smartbox)

·type: Heating

·Type of ON/OFF differential temperature control: Hysteresis 0.5°C

·Descaling pump: OFF

·Away OFFSET: 2°C

PROGRAMMABLE THERMOSTAT TECHNICAL SPECIFICATIONS

•Power supply by 2x 1.5V alkaline type AA batteries, over 2 year duration ·I CD backlit ·4 keys, with lock option •Type of action, disconnection and appliance: 1 / BU / Electronic, Type of output; relay with contact in COM / NO / NC exchange, potential free - max 5(3)A/250V~ ·Cross-section of the wires to the terminals: 1.5 mm² ÷ 2.5 mm² ·Rated impulse voltage: 4 kV ·Software: class A ·Radio emission: the appliance intentionally emits radio waves at a frequency of 869,525 MHz, with a max. power 0.5mW e.r.p. Integrated PCB aerial, indicated range 200 m outdoors, approximately 30 m indoors ·Non-volatile memory to store settings ·Temperature scale: °C (Celsius) •Weekly programming, with 1 minute resolution, precision +/- 1 minute ·10 programmable temperature levels a day ·Set temperature: 0 ÷ 35 °C, at 0.5 °C steps •Room temperature measurement: 0 + +50 °C, resolution 0.1 °C, precision +/- 0.5 °C ·Operating temperature 0 ÷ +45 °C ·Storage temperature: -10 °C ÷ +60 °C ·Temperature control mode: - ON/OFF differential (default setting) Hysteresis settable at 0.2 °C / 0.4 °C / 0.8 °C / 1.6 °C - PID modulating proportional settable 10 minutes / 15 minutes / 20 minutes / 25 minutes ·ERP Energy classification Reg. EU 811/2013: - in ON/OFF differential mode = FRP Class I 1% - in modulating proportional mode = ERP Class IV 2% ·Insulation class: Class II (pic.) ·Protection rating: IP30 ·Rate of pollution: Normal ·Descaling pump (2 minutes to move the pump if not activated the week before) ·Operating mode: Heating (default setting) / Cooling ·Away OFFSET: 0.0 / 0.5 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0° C Temperature for marble test: terminals, printed circuit 125° C; enclosure 75° C

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F.A.Q.

(Frequently Asked Questions and Inconsistent Resolutions)

consult the FAQ on page:

https://www.elnur-global.com/frequently-asked-questions/

EU SIMPLIFIED CONFORMITY DECLARATION

The manufacturer declares that the type of radio equipment listed below complies with Directive 2014/53/EU (RED).



www.heatpac.com.au

Manufacturer, Fabricat, Fabrikant, Fabbricante, Fabricante:

ELNUR SA TRAVESIA VILLA ESTHER 11 28110 ALGETE (MADRID)

Type, Typen, Tipo: **30200250**

Series, serie:

V002

CE