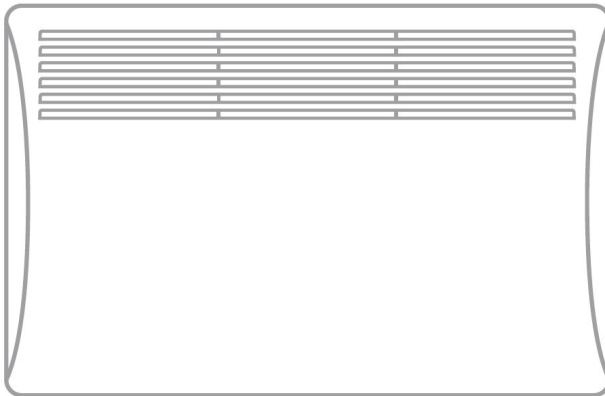hyco

Product Instruction Manual
Accona

AC500T, AC1000T, AC1500T, AC2000T, AC24000T

Panel Heater

Overview

Thank you for purchasing an Accona Panel Heater. A fixed heating solution, available in 0.5, 1.0, 1.5, 2.0 and 2.4 kW models. These are suitable for application in both home and office environments.

Please read and follow these instructions to ensure that installation and operation are as simple and safe as possible.

Important Safety Points

⚠ This appliance should only be installed and maintained by a competent person in accordance with any local electrical regulations.

⚠ 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 use of the appliance in a safe way and understand the hazards involved.

⚠ Children shall not play with the appliance.

⚠ Cleaning and user maintenance shall not be made by children without supervision.

⚠ Children of less than 3 years should be kept away unless continuously supervised.

⚠ 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.

⚠ Some parts of this appliance can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.

⚠ In order to avoid overheating, do not cover the heater.

⚠ If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

⚠ The appliance must be permanently connected to the electrical supply through an appropriately rated isolating switch with a contact separation in all poles.

⚠ This appliance must be earthed.

⚠ Only connect the appliance to an electrical supply that meets the specification detailed on the rating label.

⚠ The appliance must not be located immediately below a socket outlet.

1. Installation

⚠ Select a location for the appliance ensuring the mounting surface is suitable for the weight and heat of the appliance.

⚠ This appliance is not designed for outdoor use or use in very damp environments.

⚠ If the appliance is located in a bathroom, it must be installed so that switches and other controls cannot be touched by a person in the bath or shower.

⚠ The appliance is only intended for horizontal installation, fire risk exists if installed in any other orientation.

⚠ Ensure there are no hidden cables or pipework before commencing any drilling.

⚠ To avoid overheating risk, ensure minimum clearances are observed when installing the appliance (see diagram 1).

⚠ **Do not install the appliance in very dusty environments. Dust can burn as it passes over the heating element and adhere to the outer surface and immediate surroundings of the appliance, leading to permanent marking.**

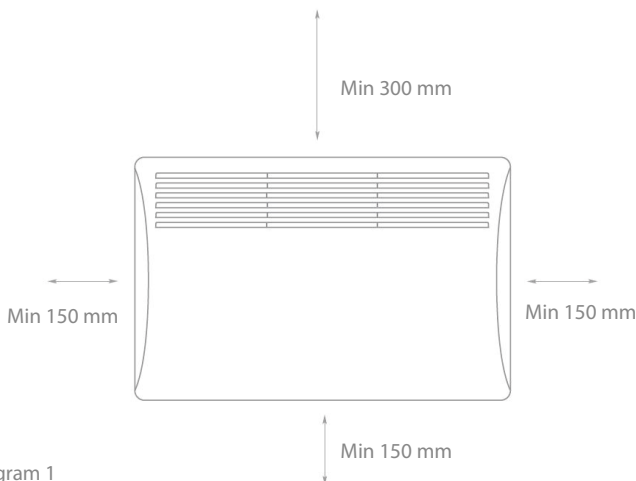## Wall Mounting

Min 300 mm

Min 150 mm

Min 150 mm

Min 150 mm

Diagram 1

- Mark the two 'L' holes as shown in diagram 2. The distance between the centres of the holes are model dependent, consult the table for the specific model being fitted.

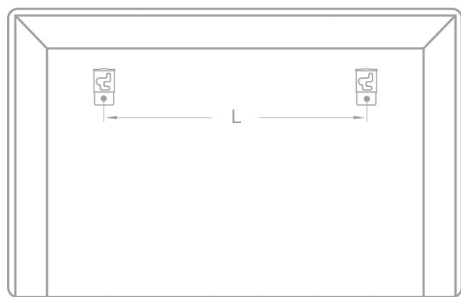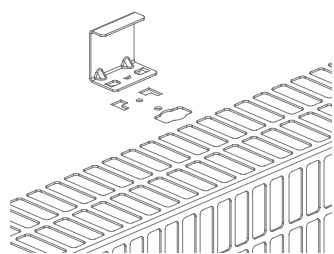| Model	AC500T	AC1000T	AC1500T	AC2000T	AC2400T
'L' value	155 mm	155 mm	250 mm	250 mm	250 mm

Diagram 2

Diagram 3

- Drill the two 'L' holes as marked in the previous step and insert 2 wall plugs and screws. Leave at least 5 mm of exposed thread to hang the appliance onto.

- Assemble the two brackets supplied, as shown in diagram 1, to the rear of the appliance. Once in place, secure the brackets using the supplied screws.

- Fit the spacer onto the rear of the appliance (see diagram 3). The rear of the spacer has hooks that engage into the corresponding slots of the appliance as it is pushed down.

- Hang the appliance on the screws by locating them into the centre of the two corresponding top brackets and then sliding the appliance down, right and down (see diagram 4).
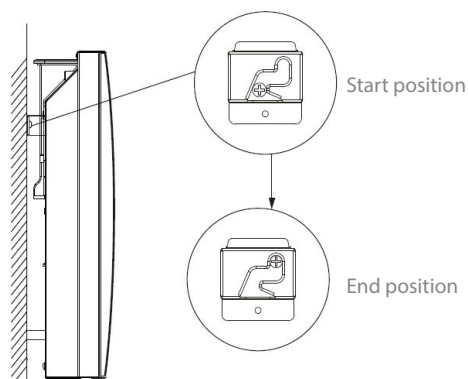
Start position

End position

Diagram 4

- Fit the final fixing bracket via the air inlet grilles located on the underside of the appliance (see diagram 5).

- Slide the fixing bracket along the air inlet grille until it contacts flush to wall. Mark the hole requirement on the wall and then remove the appliance by reversing the movement in the earlier step.

- Drill the hole and insert a wall plug.

- Return the appliance to the wall and insert the final screw into the fixing bracket to complete the wall mounting.
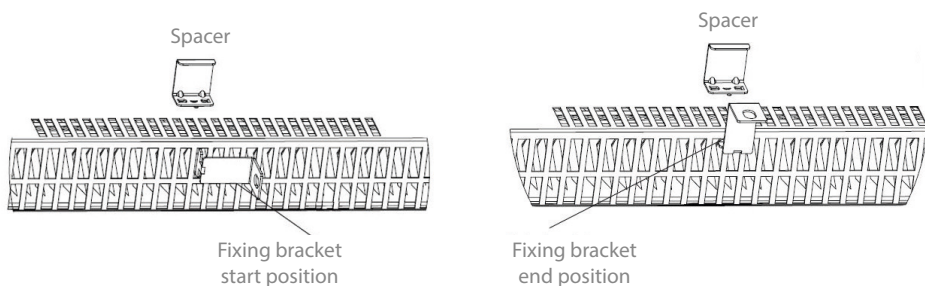

Spacer

Spacer

Fixing bracket
start position

Fixing bracket
end position

Diagram 5

2. Electrical Connection

⚠️ If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

⚠️ The appliance must be permanently connected to the electrical supply through an appropriately rated isolating switch with a contact separation in all poles.

⚠️ This appliance must be earthed.

⚠️ Only connect the appliance to an electrical supply that meets the specification detailed on the rating label.
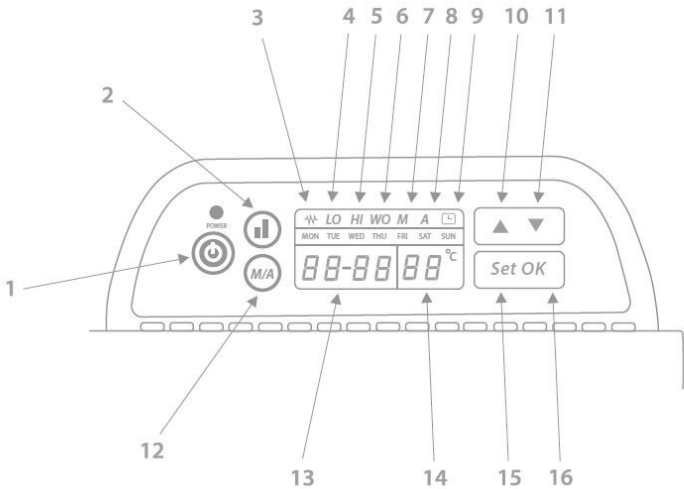
⚠️ The appliance must not be located immediately below a socket outlet.

• Make connections as below;

     - Green/ yellow earth wire to terminal marked ⊕ or 'E'
     - Brown live wire to the terminal marked 'L'
     - Blue neutral wire to the terminal marked 'N'

3. Controls

LCD Display

Number	Description	Number	Description
1	On/ off	9	Run on timer mode
2	Full / half power mode	10	Up
3	Element on indicator	11	Down
4	Half power	12	Manual/ auto mode select
5	Full power	13	Time (HH:MM)
6	Open window detection	14	Target temperature*
7	Manual mode active	15	Set select
8	Automatic mode active	16	Ok select

* primarily represents target temperature however, where referenced it displays current segment/ child lock active.

4. Preparing the Appliance

Switching the Appliance On

- Switch the power supply to the appliance on.

- Turn the appliance on using the rocker switch on the right hand side of the appliance. A blue light will be illuminated above to the on/ off button.

- Press the ⊚ button and the LCD display will now be illuminated.

Setting the Time and Date

- **The appliance will time out if no button is pressed within 4 seconds and the process will need to be restarted. Take time to read through each section before performing each task.**

- When setting the time and day it is essential to ensure that ONLY the day of the week is flashing e.g. MON and no other icons. Press OK to exit and restart if required.

- Press OK first (keep holding this down) followed by SET and hold both until the appliance beeps.

- The day of the week will flash. Use the [▲ ▼] arrows to select the day and press SET to confirm.

- The hour will flash. Use the [▲ ▼] arrows to select the hour and press SET to confirm.

- The minutes will flash. Use the [▲ ▼] arrows to select the minutes and press SET to confirm or leave to time out.

- *During the setting process use SET when confirming the day/ hour/ minute required. Do NOT press OK as this will exit the process and you will need to restart.*

To see a video for setting the time and date scan this QR code.

Selecting the Operating Mode

- On first power on the appliance will default to manual mode, M will be illuminated.

- To select your chosen operating mode press (M/A) to choose either M (manual) or A (automatic).

Setting the Target Temperature

- Use the [▲ ▼] arrows to set the target temperature. The temperature display will briefly flash, when it stops flashing it is now set and ready to use.

- To change the target temperature at any time, use the [▲ ▼] arrows.

Manual Mode

- Manual mode is the simplest way to use your appliance. No timers are running. The thermostat will control the heating element to reach and maintain the target temperature.

- Select manual mode by pressing (M/A) until the M (manual) icon is displayed. **Nb. Setting the time and date is not essential for M (manual) mode.**

Run on Timer Mode

- Whilst in manual mode it is possible to control the length of time the appliance operates for using a run on timer function. This is most convenient if you require the appliance to turn itself off after a period of time.

- Select manual mode by pressing (M/A) until the M (manual) icon is displayed.

- Press SET to enter the run on timer programming screen.

- The hour, day of week and [⏱] icon will flash (see section 3. Controls).

- Use the [▲ ▼] arrows to select the hour for the appliance to turn off and press SET.

- The minutes will flash. Use the [▲ ▼] arrows to select the minutes for the appliance to turn off.

- Once the desired hour and minute for the appliance to stop heating are displayed, press OK to confirm.

- The appliance will now display the [⏱] icon to confirm run on timer mode is active.

- Run on timer mode will be cleared if the appliance is switched off.

Automatic Timer Mode

- **When programming automatic timer mode you are only setting the time periods during which you want the appliance to be switched on.**

- Automatic timer mode allows the appliance to be operated by a user defined schedule. This offers up to four separate segments of operation to be defined for each day (all segments do not need to be used).

- This feature is strongly recommended where heat demand is predictable as it can help reduce energy wastage. In addition, this allows spaces to be heated in anticipation of the demand without the need for somebody to be present to turn it on. See 2 examples of how automatic mode could be used below;

Example 1 – in a domestic flat
Segment 1 (when user wakes up) – Heating ON 06:00 and heating OFF 08:00
Segment 2 (when user returns from work)– Heating ON 17:00 and heating OFF 22:00
This uses 2 segments over a 24 hour period

Example 2 – in a commercial office
Segment 1 (staff arrive to work for the day) – Heating ON 07:00 and heating OFF 17:00
This uses 1 segment over a 24 hour period
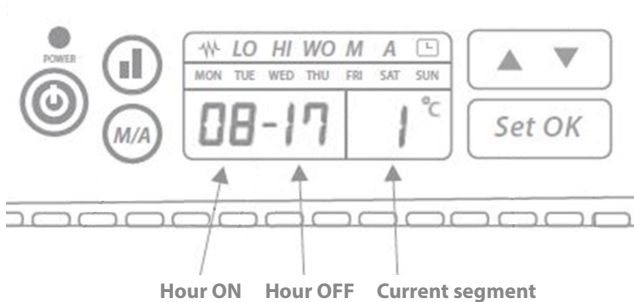

Diagram 4

Hour ON   **Hour OFF**   **Current segment**

* in automatic timer mode up to four separate segments (1 - 4) of operation can be defined for each day. The the segment being programmed (1 - 4) is shown in the °C target temperature box.

Diagram 5

- **When programming automatic timer mode there are no minutes. It is HOUR ON/ HOUR OFF using 24-hour time format (see diagram 4).**

- Press SET, the day of the week will flash.

- Use the ▲ ▼ arrows to select the day and press SET to confirm. The display in diagram 5 is setting the 1st segment for Monday.

- Segment 1 of the chosen day is now being programmed.

- The 1st block of digits will flash, this shows the hour for heating to turn ON e.g. 00 = 12am, 08 = 8am.

- Use the ▲ ▼ arrows to select the hour for the appliance to turn ON (08 = 8am) and press SET to confirm.

- The 2nd block of digits will flash, this shows the hour for heating to turn OFF e.g. 10 = 10am, 14 = 2pm.

- Use the ▲ ▼ arrows to select the hour for the appliance to turn OFF (10 = 10am) and press SET to confirm.

- The appliance will now move to segment 2 which can be programmed for chosen ON/ OFF times as above.

- This can be repeated for as many of the 4 segments as desired. When programming for the current day is complete (no matter how many segments have been used) press OK. This will NOT take you to the next consecutive day, it will take you back to the beginning and you must begin the process of selecting your chosen day to programme again.

To see a video for setting automatic mode scan this QR code.

Selecting Between Full and Half Power

- Press the ⬚ button to choose between the settings. The current setting will be displayed by either the *LO* or *HI* icon on the display (see section 3. Controls).

Child Lock

- Press the [▲ ▼] arrows simultaneously and hold until the appliance beeps. The temperature display will be replaced by [ ] icon to indicate the appliance is locked.

- Repeat the first step to unlock.

- If you are unsure whether child lock is active when the appliance is in standby, press the ◎ button to illuminate the LCD display. Press any button to check whether the child lock [ ] icon is displayed.

Frost Protection

- The appliance has a frost protection mode which will not allow the temperature of its surroundings to drop below 5°C. This feature will operate regardless of any settings that have been selected. The only way to prevent this feature operating is to switch off the heater at the main switch (not standby).

Open Window Detection

- Open window detection will detect any sharp drop in the room temperature due to an open window. This is designed to help reduce energy wastage, it is recommended to be set on.

- The appliance will beep and stop heating, *WO* will flash to indicate open window detection. To clear, the appliance should be switched off and back on using the ◎ button.

- It is possible to switch the feature on or off. Press and hold OK until the appliance beeps and the *WO* icon is no longer visible. This means open window detections has been switched off.

6. Cleaning and Maintenance

⚠ This appliance should only be installed and maintained by a competent person in accordance with any local electrical regulations.

⚠ Ensure any future maintenance or modifications to the appliance complies with the guidelines in these instructions.

⚠ Isolate the appliance from the electrical supply before performing any maintenance task.

⚠ Ensure the appliance has cooled down before performing any maintenance task.

⚠ Do not use abrasive chemicals to clean this appliance.

⚠ Use a soft damp cloth when cleaning, avoid excessive use of liquids.

⚠ **If the unit has been off for a prolonged period, safely remove any excess dust from the unit and immediate vicinity before turning on.**

• The appliance should be inspected and cleaned periodically. Ensure the inlet grilles at the base and the outlet louvres at the front of the appliance are cleared of dust or other debris that may causes a blockage and in turn reduce the airflow in and out of the appliance. If unchecked this may lead to the appliance running at hotter temperatures.

• Use a soft brush or vacuum cleaner to gently remove any debris from the inlet grilles and outlet louvres.

7. Specification

Model	AC500T	AC1000T	AC1500T	AC2000T	AC2400T
Power	0.5/ 0.25 kW	1.0/ 0.5 kW	1.5/ 0.75 kW	2.0/ 1.0 kW	2.4/ 1.2 kW
Voltage	230 V	230 V	230 V	230 V	230 V
Dimensions (h x w x d)	400 x 460 x 90	400 x 460 x 90	400 x 595 x 90	400 x 830 x 90	400 x 950 x 90
Weight	3.4 kg	3.4 kg	4.7 kg	5.7 kg	7.4 kg
Timer	Yes	Yes	Yes	Yes	Yes
Current	2.2 amps	4.3 amps	6.5 amps	9.0 amps	10.4 amps
Number of louvres	2	2	3	4	4

Table for information requirements for electric local space heaters							
Model identifier(s):		**AC500T**	**AC1000T**	**AC1500T**	**AC2000T**	**AC2400T**	
Item	Symbol	Value					Unit
Heat output							
Nominal heat output	Pnom	0.5	1.0	1.5	2.0	2.4	kW
Minimum heat output (indicative)	Pmin	0.25	0.5	0.75	1.0	1.2	kW
Maximum continuous heat output	Pmax	0.49	0.97	1.48	1.97	2.34	kW
Auxiliary electricty consumption							
At nominal heat output	elmax	0.490	0.974	1.485	1.976	2.342	kW
At minimum heat output	elmin	0.248	0.480	0.715	0.983	1.166	kW
In standby mode	elSB	0.00035	0.00035	0.0004	0.0004	0.0004	kW
Type of heat output	Electronic room temperature control plus week timer						
Other control option	Room temperature control, with open window detection						
Contact details	Hyco Manufacturing Ltd - 01924 225 200						

8. Troubleshooting

Error code	Meaning
E1	Temperature sensor error - contact Hyco.
E3	Overheat event - the appliance will beep until any button is pressed to clear the fault. The cause of the overheat should be investigated before continuing to use the appliance.
WO	Open window detection - resolve cause then to clear, the appliance should be switched off and back on via the on/ off button.

9. Guarantee and Service Policy

This product is covered by a standard parts or replacement warranty for a period of 1 year from the date of purchase.

If there is a manufacturing defect within the warranty period we will send spare parts, repair and return the unit or, at our discretion, supply a replacement product. Incorrect installation and failure to follow correct operating instructions are excluded. Consequential costs such as labour charges or damage to surroundings are expressly excluded.

10. Contact Us

If you experience a problem with this product you should first contact our service department on 01924 225 200 before taking any further action. Experience has shown that issues can often be resolved without the need to return or uninstall the product.

INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 2012/19/EU.

At the end of its working life this equipment must not be disposed of as household waste. It must be taken to a local authority waste collection centre or to a dealer providing this service. Disposing of electrical and electronic equipment separately enables its components to be recovered and recycled to obtain significant savings in energy and resources. In order to underline the duty to dispose of this equipment separately, the product is marked with a crossed out dustbin.