moda

INSTRUCTION MANUAL

Opal

Electric Panel Heater

PLEASE READ AND SAVE THESE INSTRUCTIONS

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1. Symbols

This symbol indicates a hazard with an average risk level which, if not avoided, could result in serious injury or death.

This symbol indicates danger to the life and health of persons due to electrical voltage.

This symbol located on the device indicates that it is prohibited to place objects (such as towels, clothes etc.) above or directly in front of the device. To avoid overheating and fire hazards, the device must not be covered.

This symbol located on the device indicates that its surfaces are hot during and immediately after operation. Hot surfaces should not be touched: danger of burns.

This symbol located on the device indicates that it is prohibited to spray the device.

This symbol located on the device indicates that instructions in the operating manual must be observed when installing and using the device.

2. Warnings & Precautions

Read this manual carefully before using or installing the heater. Always store the manual in the immediate vicinity of the heater or its site of use.

Read all safety warnings and all instructions.

The heater should only be installed and used according to the instructions in this manual. Failure to follow the warnings and instructions may result in electric shock, fire, serious injury, or all of the above. Save all warnings and instructions for future reference.

Some parts of this product can become very hot and cause burns. Do not touch the surface when in operation. Do not install close to curtains or other combustible materials. Particular attention should be given where children and vulnerable adults are present.

Never cover the heater. Covering the heater risks overheat and fire.

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 beenplaced 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, or clean the appliance, or perform maintenance.

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 shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- Keep the power cable away from all hot parts of the appliance.

- Do not use the heater with the power cable wound up. This can cause a dangerous build up of heat. Do not wind the cable around the appliance as this may cause weakening and splitting of the insulation. The power cable should be fully unwound and removed from any storage areas before use.
- Prior to each use of the device, check that the cable, mains plug, casing and element are intact and in good condition. The heating element may be damaged if the heater is dropped or hit. Do not use if you detect damage to any component.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons to avoid a hazard.
- Make sure that the voltage indicated on the rating plate for this appliance corresponds to your power outlet: AC 240V, 50Hz.
- Check for transportation damage and make sure all parts are complete after the appliance is unpacked. Do not use if any parts are missing or damaged.
- Do not leave the heater unattended during use.
- Do not use the appliance with an external controller.
- It is recommended to plug the device directly into a wall socket. Use of extension leads is not recommended because many models do not support high-powered appliances. Make sure any extension lead used can safely support the power requirements of the product.
- Do not share the heater's socket with other appliances: risk of fire due to excessive load.
- The power cable should not be positioned under the carpet or items of furniture. Do not run the cable where it will be a trip hazard.
- The device must not be located immediately below an electrical socket outlet.
- Do not use this device in the immediate surroundings of a bath, shower, swimming pool or any other water container. Risk of electric shock. This product is not suitable for bathroom use.

- The device must be placed where the switches and controllers cannot be touched by a person in a bathtub or shower. Never place the device where it may fall into a bathtub or other water receptacle.
- Do not use the device with wet or damp hands.
- No part of the appliance should be submersed in any type of liquid.
- Cleaning should be carried out using a damp cloth only. No abrasive chemicals or materials should be used.
- Never insert fingers or other objects or body parts into the heater's protective grill: risk of electric shock or injury.
- The device must only be installed in an upright and fixed position on a smooth, stable, heat-resistant surface.
- The device is for indoor use only. Do not use outdoors.
- Make sure the minimum safety distances from walls and objects stated in the installation instructions are observed at all times. This is very important to prevent damage to walls, furniture and soft furnishings and to prevent the product overheating.

- Do not use the device in rooms where contact with flammable or potentially explosive materials like dust, gas or vapour cannot be avoided.
- Do not operate the device when wet. If the device gets wet during cleaning, allow it to dry out before using.
- Do not expose the device to water jets.
- Do not transport the device during operation.
- Do not sit on the device.

- Before carrying out maintenance, care or repair work on the device, ensure the device is unplugged. Do not use the cable to tug the plug from the socket. Hold the plug and pull.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- Allow the device to cool down before touching or transporting the device, or attempting maintenance work.

3. Technical Information

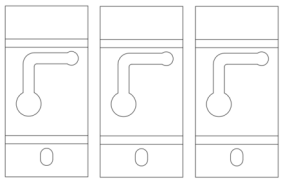
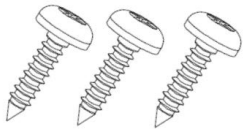
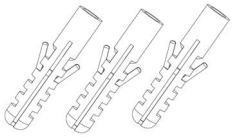
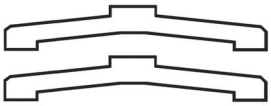
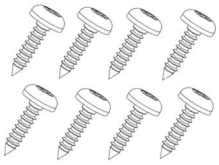
Table 1: Technical Specifications

Voltage	240V AC / 50Hz.
Wattage	2000W
Temperature Range	5–40 °C
Temperature Resolution	1 °C
IP Rating	IP22
Appliance Class	Class I
Power cable length	1.6m

4. Installation

4.1. Fixings

Before beginning installation, check that all fixings are supplied. The heater should only be mounted with the manufacturer's fixings.

Component	Wall mounting brackets	Bracket screws	Wall plugs
			
Quantity	3	3	2
Component	Wall Screws	Feet	Feet screws (4*20mm)
			
Quantity	2	2	8

4.2. Wall mounting instructions

Warning – Check for cables and pipes in the wall prior to drilling to prevent damage.

Ensure screws are firmly fixed to ensure safe heater operation. Note and adhere to the safe fitting distances below.

Note – The fixings supplied are designed for installation onto solid walls. Alternative fixings may be required if installing onto plasterboard or other non-standard wall types. It is the responsibility of the installer to evaluate the fitting location and determine if alternative fixings are required.

1. Choose the mounting position, respecting the following minimum distances from surrounding surfaces and objects. At least:
    - 50cm from the top to shelves or ceiling.
    - 15cm from the base to the ground
    - 1m from flammable materials and objects, e.g. curtains.

2. Hook the wall mounting brackets into the holes in the back of the heater. Fix in place with the bracket screws and tighten with a screwdriver.

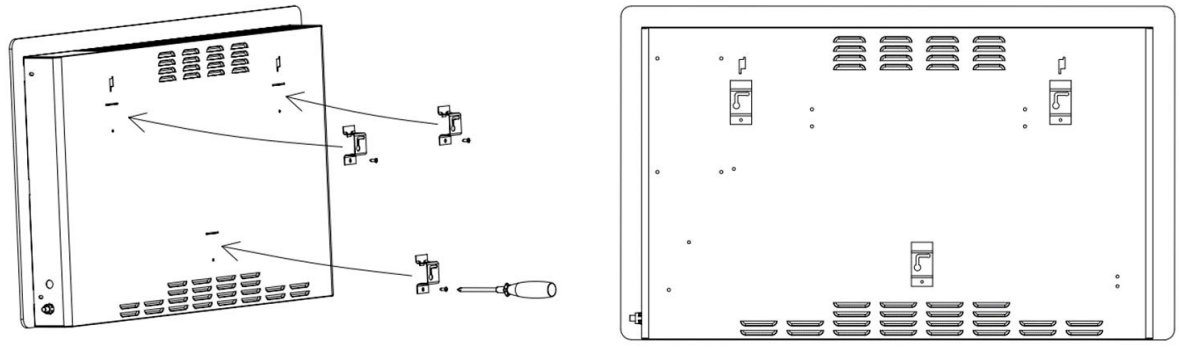


Figure 1: Attach brackets to heater body

3. Use a tape measure and pencil to mark the locations of the drill holes on the wall.

   The distance between the two holes should be 400mm, and the distance from the floor should be at least 510mm to maintain the heater's minimum safe distance from the floor.

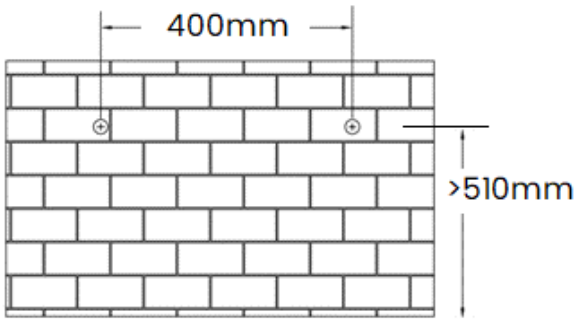


Figure 2: Drill hole locations for wall

4. Drill holes of diameter 6mm and depth 35mm at the marked locations. Only two holes are required in total, to support the two upper brackets. The lower bracket plays a supporting role only and will not be fixed to the wall.

5. Push the wall plugs into the drilled holes.

6. Insert the wall screws into the holes and use a screwdriver or drill to tighten them, leaving 5mm standing proud from the wall.

7. Align the holes on the top two wall mounting brackets with the screws in the wall. Hook the screws through the holes and slide the heater down and right to locate the screws in the slot.

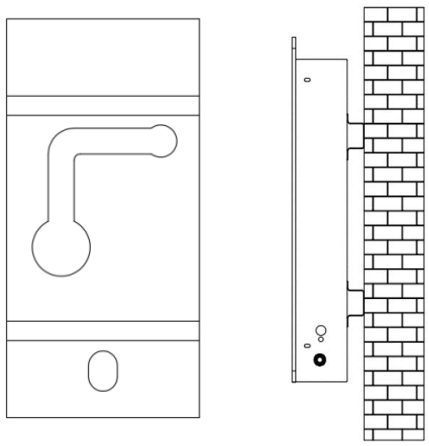


Figure 3: Mount heater on wall

4.3. Free-standing instructions

To use the electric heater free-standing, fit with the feet supplied with the heater following the instructions below. Make sure the heater is mounted on a level, stable and clean surface.

1. Turn the heater upside down and rest it on a soft surface such as a carpet to prevent damage.

2. Align the holes on the feet with the holes on the base of the heater.

3. Thread two 4*20mm screws into the holes on each foot and use a screwdriver to tighten.

Figure 4: Attach feet to the base of the heater

5. Control Panel

5.1. Display

The heater features a dimmable touchscreen LED display.

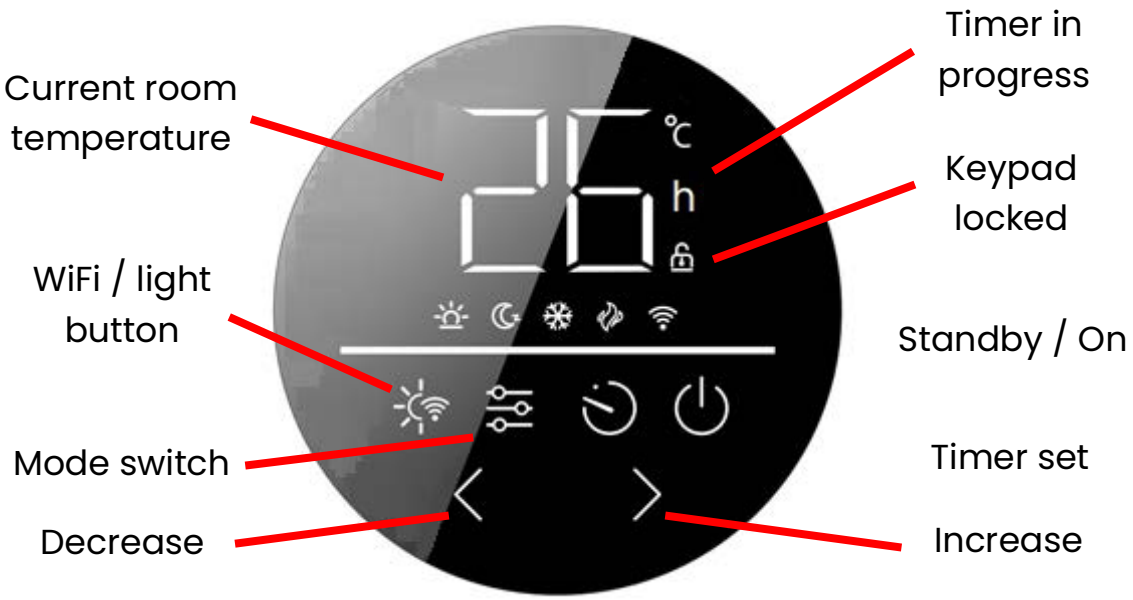


Figure 5: Control Screen Layout and symbols

Comfort	Eco	Anti-Frost
Connected to WiFi	Device is heating	Keypad locked
Timer in progress	Toggle WiFi / light level	Toggle mode
Set timer	Standby / On	Decrease / increase

5.2. Standby mode

The heater first starts in standby mode, where the display shows only the standby and WiFi symbols. On this mode the heater will not heat. You can use the standby key to switch between standby and the heating modes.

5.3. Heating modes

Tap the key to switch the heater on. Tap to switch between modes. The displayed icon will change accordingly, browsing through: **Comfort**, **Eco** and **Anti-Frost**.

5.3.1. Comfort

When the display is showing the icon, the heater is in comfort mode. In this mode, the heater heats on full power to a constant set temperature. The thermostat measures the room temperature and switches the heating on and off accordingly. The icon displays when the heater is heating.

Set temperature can be adjusted using the and keys. The range is 6-40 °C. Note - comfort mode must be set at least 1 °C warmer than eco mode. If a comfort temperature equal to or lower than the eco temperature is selected, the eco temperature will automatically reduce.

5.3.2. Eco

When the display is showing the icon, the heater is in eco mode. In this mode the heater heats at half power to a constant set temperature. The temperature in eco mode is always at least 1 °C lower than in comfort, providing a low-heat, energy-saving alternative for when you are sleeping or out.

Set temperature can be adjusted in the range of 5-39 °C using the and keys, but be aware - if eco temperature is set equal to or higher than comfort temperature, the comfort temperature will automatically increase.

5.3.3. Anti-frost

When the display is showing the icon, the heater is in anti- frost mode. This is the mode to use when rooms will be empty for long periods - for instance, when you go on holiday. Anti-frost sets the heater to come on only when temperatures drop low, when it will work at full power to keep the room warm enough to prevent pipes from freezing.

Anti-frost mode is set to 5 °C and is non-adjustable.

5.4. Countdown timer

The timer function offers a 1-24 hour countdown and works in all three heating modes. When the timer is set, the heater will run for the set period and then switch to standby mode. Switching heating mode does not cancel the timer; it will maintain the countdown and switch to standby when the set period elapses, no matter what mode is running.

Tap the icon to set the timer, repeatedly pressing the key to adjust from 0 to 24 hours in steps of one hour. The symbol will display to show the timer is in progress. To cancel the timer, double press the key.

You can check how many hours remain on the timer (rounded up) by tapping the icon.

5.5. Display brightness

You can adjust the brightness of the display using the key. Repeatedly pressing the key cycles the display through full light, half light and no light, where only the key displays.

When the display is on full light, it will automatically dim to half light after 20 seconds not in use.

5.6. Child lock

Press and hold the and keys to lock the display. The icon will appear, the display will dim and all keys will be locked. Press and hold the and keys to unlock and the icon will disappear.

5.7. Memory function

In the event of power failure or disconnection, temperature settings will be remembered and the heater will restart on the mode it was previously running.

6. Connecting to WiFi

6.1. Downloading the app

The Moda Opal is designed to work with the Smart Life app.

Scan the code below to go to the app. Press install and follow the app's instructions to create an account.

NOTE - The Smart Life app is a constantly evolving third party system. This guide was correct at time of printing but may differ slightly from future versions. The app is designed to work on Android or iOS but older software versions may affect app presentation and performance.

6.2. Connecting to the app

1. Before pairing, ensure your mobile device is connected to your WiFi network. This must be a 2.4GHz network. If you have a 5.0GHz router,you will need to switch to the 2.4GHz band if this does not happen automatically.

2. Open the app and press the “+” icon in the upper right hand corner.

3. The list of appliance types will load. Swipe down the list to find “Small Home Appliances” and select “Heater (WiFi)”.

4. You will be prompted to select your WiFi network and enter your password. This is where you can check that the band is 2.4GHz. You can follow the link in the app for advice if you need help with this.

5. Check that the heater is in pairing mode, shown by the flashing symbol on the display. If the symbol is not flashing, hold down the key.

6. Check the frequency with which the symbol flashes and skip to step a. (if the symbol is flashing quickly) or b. (if the symbol is flashing slowly).

   The heater offers two connection modes, EZ and AP mode. This makes it easier for the heater to connect to different devices: EZ mode is faster, but may not work with all devices; AP is universal but requires some extra steps. When the symbol flashes fast, the heater is ready to connect on EZ mode. When the symbol flashes slow, the heater is ready to

connect on AP mode. You can change pairing mode by holding down the key.

a. The symbol flashes fast - twice per second. This is EZ or Smart mode. See **Figure 6** below.

   i. Select “Confirm the indicator is blinking”, then tap “Blink Quickly”.

   ii. The heater will begin connecting.

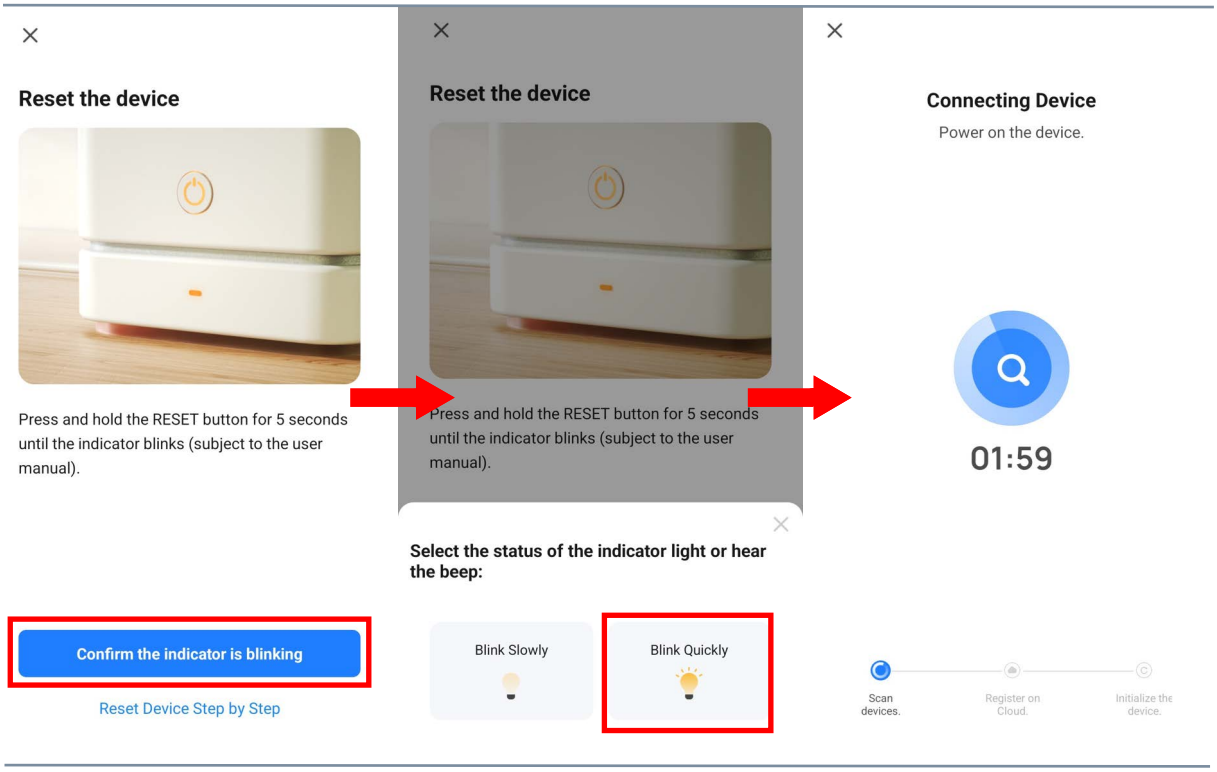


Figure 6: Connecting the heater to the app using EZ Mode

b. The symbol flashes slowly - once per second. This means the heater is in AP mode. In this mode, your device uses a WiFi hotspot to connect. See **Figure 7**.

   i. Select “Confirm the indicator is blinking”, then tap “Blink Slowly”.

   ii. Press “Go to Connect” to go to your WiFi settings.

   iii. Connect to the WiFi hotspot named “Smart Life-XXXX”.

   iv. Once connected to the hotspot, return to the app and click “Confirm Hotspot Connection”. The heater will begin connecting.

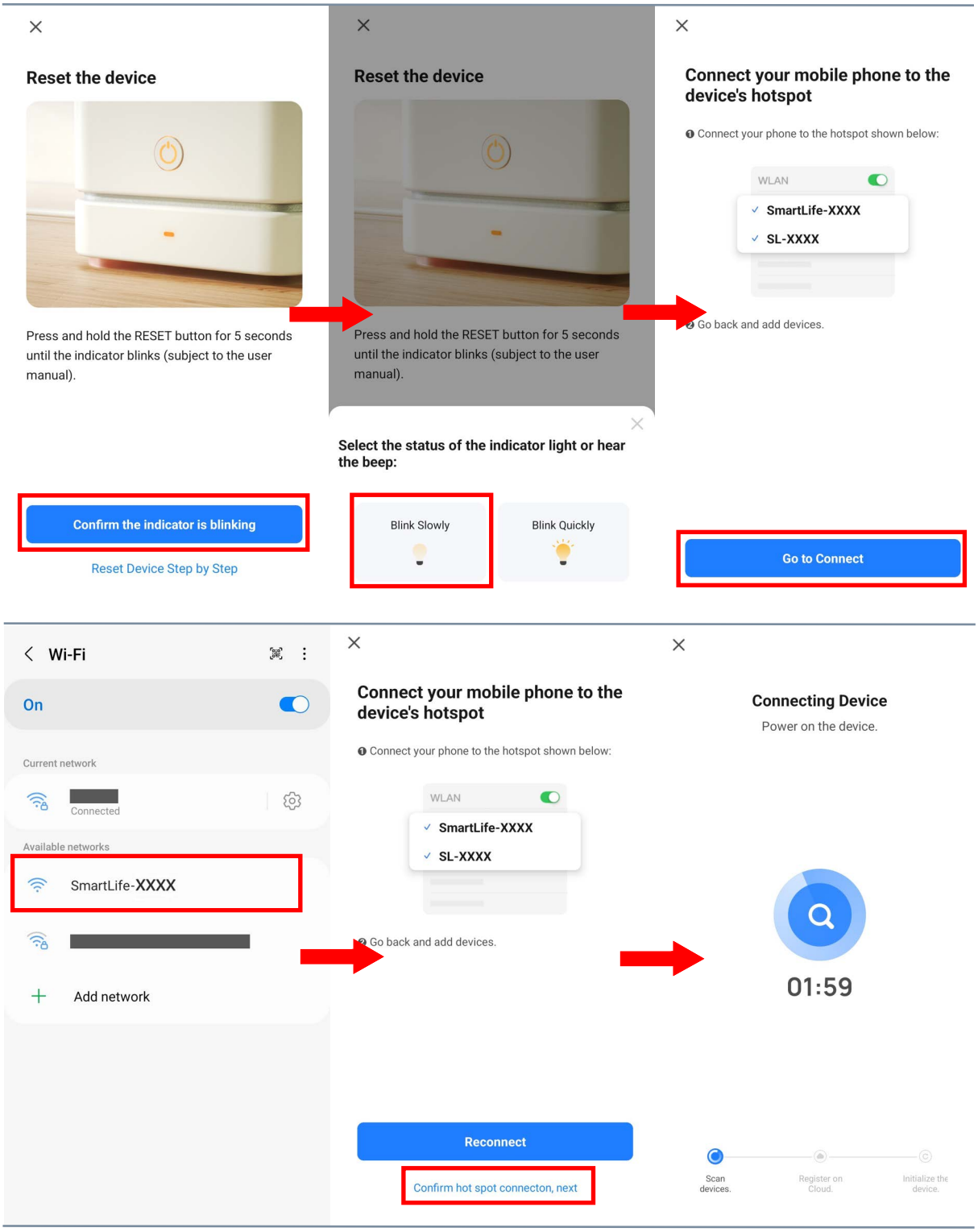


Figure 7: Connecting the heater to the app using AP Mode

7. Once you have reached the connecting screen, it should take 20-30 seconds for the heater to be successfully added to the app. “Device added successfully” will display on the app and the symbol on the heater display will solidify.

8. Tap the pen icon to change the name of the heater.

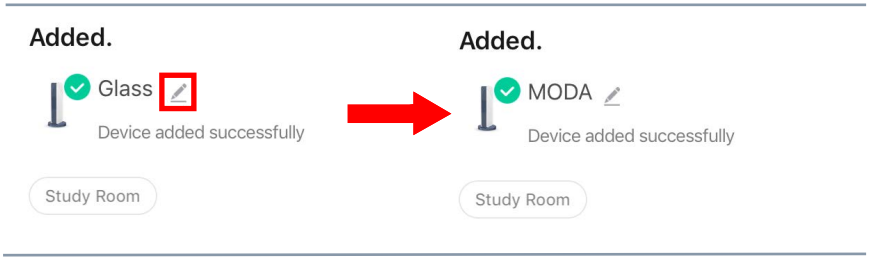


Figure 8: Change heater name on app

Troubleshooting

If the heater does not connect on the first attempt:

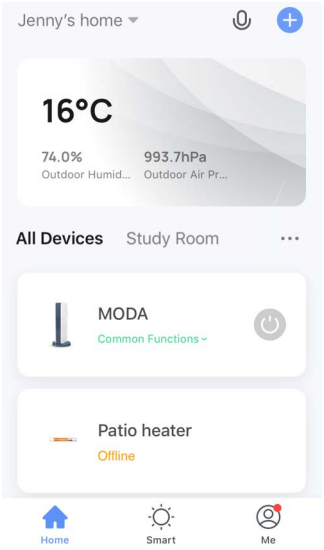
- Repeat the steps above but try the alternate pairing method. Hold down the key to switch pairing mode.
- Reset the heater by turning it off at the wall socket, waiting a few minutes, then switching it back on. Hold down the key if you need to reset or change the pairing mode.
- Ensure your router has a strong internet connection.
- Make sure both the heater and your smart device are in range of your router.
- Ensure WiFi and Bluetooth are enabled on your smart device.
- Make sure the app has registered successfully.
- Make sure your smart device is connected to the same WiFi network as that to which you are attempting to connect your heater.
- Ensure you are connected to a 2.4GHz WiFi band. See instructions within the app if you are currently connected to a 5GHz band.
- Check any local restrictions on your WiFi. WiFi networks in public places such as hotels and airports may require extra identification steps.

7. Using the App

NOTE - The Smart Life app is a constantly evolving third party system. The guide below was correct at time of printing but may differ slightly from future versions.

7.1. Home overview

You can use the Smart Life app to control multiple devices. All devices are displayed on the home screen with their status.



7.2. Control interface

Tap the heater listing to go to the control interface.

Here you can turn the heater off and on, adjust set temperatures, choose mode and access weekly programmer and device settings.

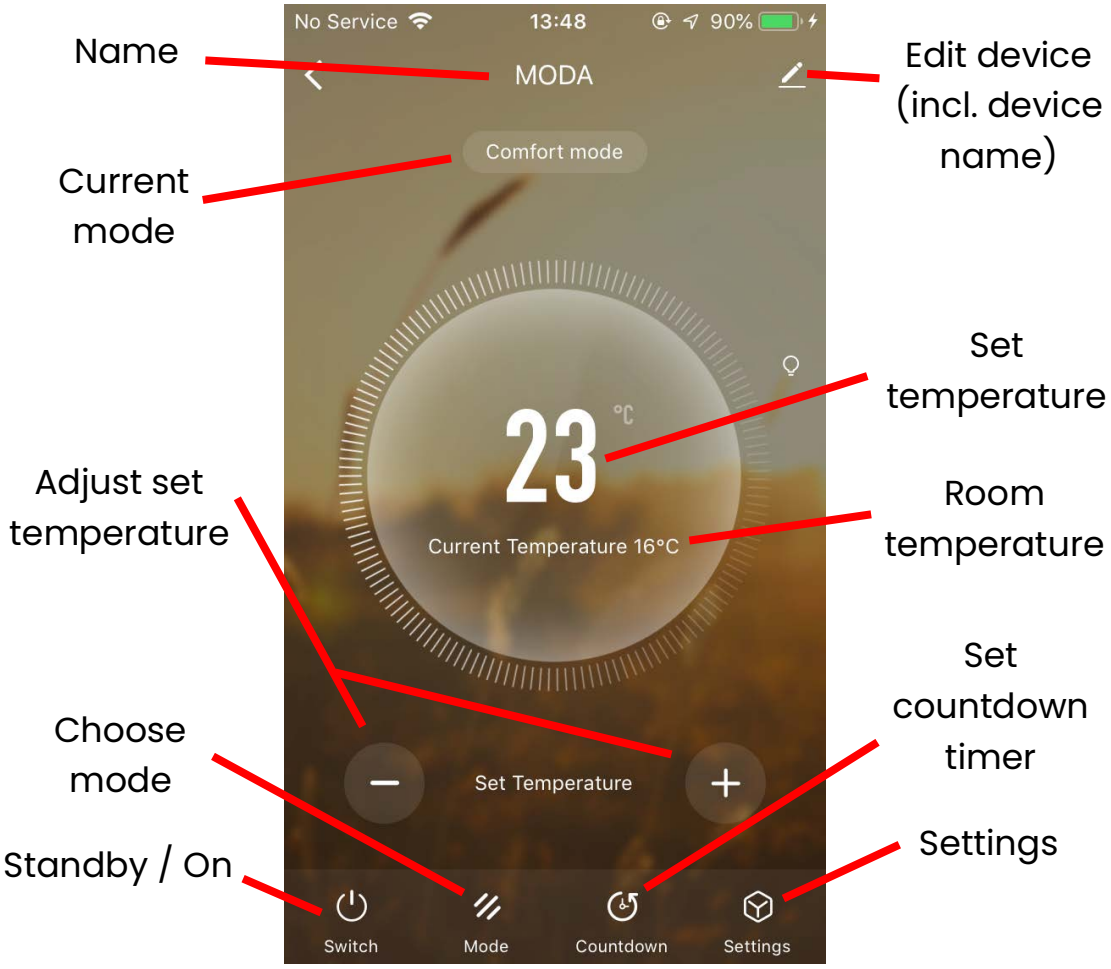
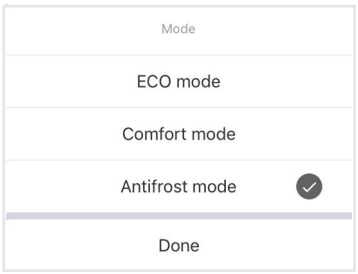


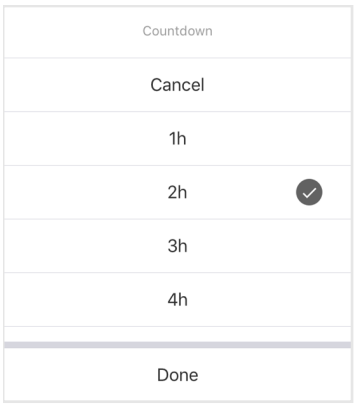
Figure 9: Device Control screen on the Smart Life app

7.3. Choose mode



Tap the mode icon Mode to choose the heating mode. The three options correspond to the three modes on the control panel: comfort, eco and anti-frost.

7.4. Countdown timer



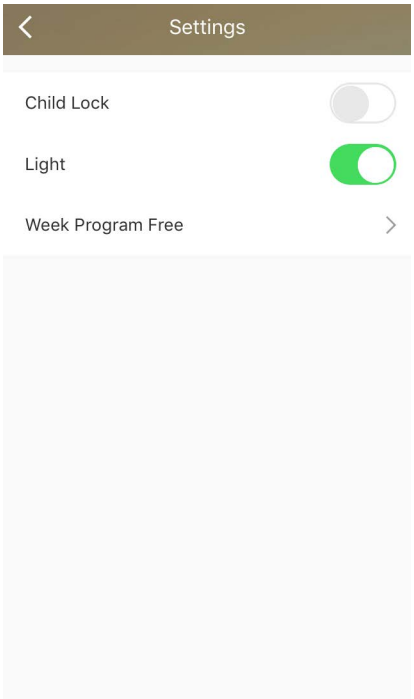
Tap the timer icon Countdown and scroll through the menu to set the countdown period from 1 to 24 hours. The heater will run for the period selected and then switch to standby mode.

Switching heating mode or setting a weekly program does not cancel or override the countdown timer; the countdown will be maintained and the heater will switch to standby when the set period elapses, no matter which mode is running.

You can check how many hours remain on the timer (rounded up) by tapping the Countdown icon. To cancel the timer, press Countdown and choose "Cancel", or turn the heater off and on again.

You can also use the timer in standby mode to set a countdown to turn the heater on. This feature is only available through the app.

7.5. Settings



Tap the Settings icon to view and adjust the heater's settings, which include the optional weekly program.

Tap the icon for settings that relate to the heater's listing on the app, including its name, any automations it is included in, and the quality of its network connection.

7.5.1. Child lock

Use the child lock toggle in the settings menu to lock and unlock the heater display.

7.5.2. Display brightness

Use the "Light" toggle in the settings menu to switch the heater display from full brightness to no light.

Note - the half light display setting can only be set as the active light level using the icon on the heater. However, the display will still dim to half light level when left idle for 20 seconds on full light level. If you toggle the heater to full light using the app when the display has already timed out and dimmed, it will briefly engage at full brightness and then immediately switch down to half light level.

7.5.3. Weekly program

Select "Week Program Free" in the settings menu to configure a weekly program. You can use the program to schedule the heater to come on at comfort, eco or anti-frost mode at regular hourly slots across the week.

The program takes effect as soon as you save it on the app; there is no "program mode" you need to select, your scheduled intervals will simply overwrite your current settings when the time arrives.

Tap any slot in the weekly grid to see the mode menu. Tap comfort, eco or anti-frost to set the mode for that hour. Alternatively, you can set the mode for multiple hours at once by tapping the start and end slots, then choosing a mode.

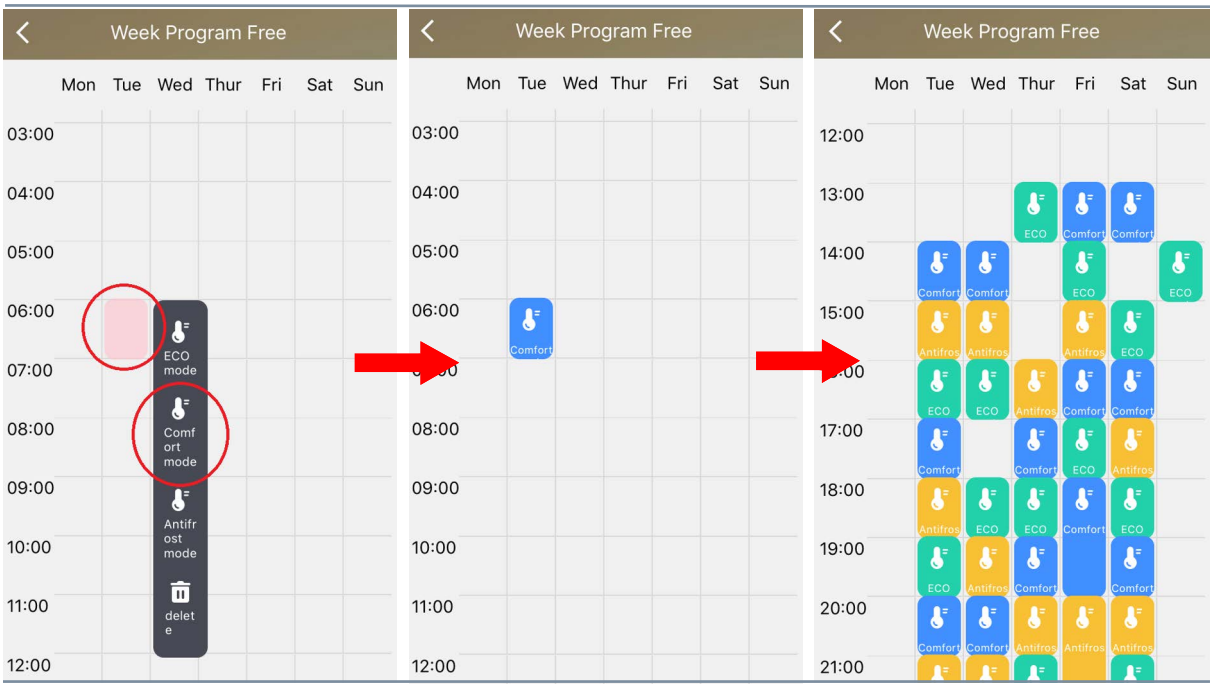


Figure 10: Setting the Program on the Smart Life app

However, you don't necessarily need to set modes for every hour of every day; the heater will continue to heat at the last scheduled mode until it reaches a different mode block, see **Figure 11**.

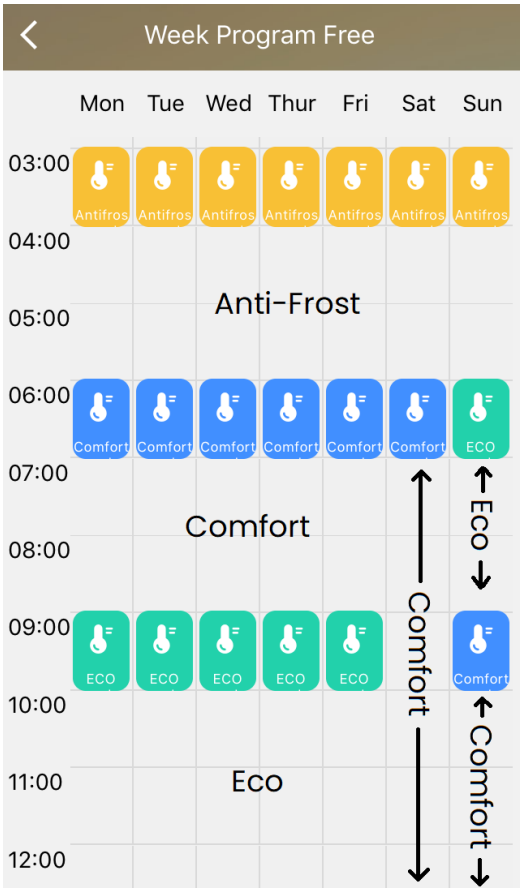


Figure 11: Gaps in the program

The countdown timer function can be used in combination with the weekly program. The schedule will run as normal while the countdown is running, stop when the heater switches to standby, and resume when it is switched on again.

Note – programmed intervals only engage at the time they are scheduled to start. This means if you set a program interval during the time it will cover – e.g., setting a comfort interval for 10-11am at 10:30 – the mode will not be triggered until 10am on that day in the next week. However, if you set the interval from 10-12am, the heater would switch to comfort at 11am. This is one benefit to setting modes to every hour of every day: the heater will always reset to follow the program on the hour.

7.6. Voice integration

The Smart Life app is compatible with both Amazon Alexa and Google Home.

To connect Alexa with Smart Life, download the Smart Life skill onto your Alexa app. To connect Google Home with Smart Life, go to “Set up a device” in the Google Home app. Tap “Works with Google” and select Smart Life from the list.

Depending on your device, your voice control app may discover your heaters automatically, or you may need to prompt it to do so. You can find quick guides for both Google Home and Alexa in the Smart Life app's FAQ section.

Make sure you give the heater a name that's easy for you to say and for your voice interface to understand. You can change the heater's name in the Smart Life app - see Section **7.5**.

Table 2: Voice Commands List

	Command	Action
	Turn on **<device name>**. Switch on **<device name>**.	Switches the heater On.
	Turn off **<device name>**. Switch off **<device name>**.	Switches the heater Off.
°C	Set **<device name>** to **<temperature>** degrees.	Choose value from 6 to 40 if the heater is in comfort mode, or 5 to 39 if on eco mode. Alexa devices will only allow temperature adjustment in comfort mode.
 	Increase **<device name>** temperature. Decrease **<device name>** temperature. Make **<device name>** warmer. Make **<device name>** cooler. Raise **<device name>** temperature. Lower **<device name>** temperature.	Increases or decreases the set temperature by 1 °C, as above.
   <x> °C	Increase **<device name>** **<x>** degrees. Decrease **<device name>** **<x>** degrees. Raise **<device name>** **<x>** degrees. Lower **<device name>** **<x>** degrees.	Increases or decreases the set temperature by a number of degrees, as above.
?	What temperature is the **<device name>** set to?	Reports the set temperature of the heater.

8. Cleaning

The heater should be cleaned regularly to ensure fault-free operation. The most common cause of overheating is the build-up of dust or fluff within the heater. Prevent this from happening by regularly unplugging the heater and dusting the vents and grille.

Always disconnect the appliance and allow it to cool completely before cleaning. Use a vacuum cleaner to remove dust from the grilles. Clean the outside of the unit with a damp cloth and then dry it with a dry cloth. Never immerse the unit in water or let water drip into the unit.

If the heater is going to be out of use for long periods, for example over summer, the best way to keep it clean and extend its lifespan is to put it into storage. Disconnect the appliance and allow it to cool completely before packing it in its original packaging and storing it in a dry and ventilated place. Do not place heavy items on top of the box during storage as this may damage the appliance.

9. Warranty

The Moda Opal Panel Heater carries a 2-year guarantee on the body, paintwork electrical components. Within the stated period, starting from the date the customer receives their unit, the supplier guarantees to repair or replace the unit where a fault is due to defects in materials or manufacturing.

The warranty does not cover any defect arising from damage, negligence, usage outside the product's intended purpose or fair wear and tear. The warranty is only valid when the unit has been used at the specified supply voltage, and in accordance with all conditions specified in this manual. The warranty will be void if the heater has been covered, tampered with or opened in any way, or if the ratings label has been removed.

The warranty does not cover failures and faults due to force majeure, accidental damage, mishandling, external impact, chemical agents or atmospheric phenomena, incorrect use of the device, the purchaser's faulty electrical installations, transporting the device or problems caused by the device being handled by unauthorised persons. If the unit has been hardwired, an invoice may be required to confirm the work was carried out by a qualified professional. The manufacturer cannot accept responsibility for damage, loss or injury caused by incorrect installation, maintenance, cleaning or covering the device.

The warranty is a contract with the original purchaser and does not transfer if the unit is re-sold, gifted or inherited. Proof of purchase, including order number and order confirmation or invoice, will be required if a claim is made. The warranty covers only the model of heater shown on the purchase invoice. The warranty covers the repair or replacement of the defective product only and the manufacturer shall have no liability for installation costs or consequential losses however incurred. The unit is sold as a DIY product; whilst hardwiring is permitted within the terms of the warranty – provided evidence can be produced that the work was performed by a qualified installer – no compensations will be offered for the installer's costs in the event of a claim. Claims must be made with the establishment where the device was purchased. This warranty does not affect the customer's consumer rights.

10. ERP Ecodesign Information

Table 3: Outputs of the Moda Opal

Item	Units	Value
Nominal heat output	(P_{nom} / kW)	2.0
Minimum heat output (indicative)	(P_{min} / kW)	1.0
Maximum continuous heat output	($P_{max.c}$ / kW)	2.0
At nominal heat output	(el_{max} / kW)	N/A
At minimal heat output	(el_{min} / kW)	N/A
In standby	(el_{sb} / kW)	0.00089

Table 4: Information requirements for electrical local space heaters

Item	Unit
Type of heat input, for electric storage local space heaters only (select one)	
manual heat charge control, with integrated thermostat	N/A
manual heat charge control with room and/or outdoor temperature feedback	N/A
electronic heat charge control with room and/or outdoor temperature feedback	N/A
fan assisted heat output	N/A
Type of heat output/room temperature control (select one)	
single stage heat output and no room temperature control	[no]
Two or more manual stages, no room temperature control	[no]
with mechanic thermostat room temperature control	[no]
with electronic room temperature control	[no]
electronic room temperature control plus day timer	[no]
electronic room temperature control plus week timer	[no]
Other control options (multiple selections possible)	
room temperature control, with presence detection	[no]
room temperature control, with open window detection	[no]
with distance control option	[yes]
with adaptive start control	[no]
with working time limitation	[no]
with black bulb sensor	[no]

11. Manufacturer Information

The Moda Opal Panel Heater is an electric heating product produced for Moda Heating and sold through various retailers and distributors. Please contact your supplier for technical advice regarding this product.

For other queries:

Moda Heating Ltd
Unit 21 Ash Way, Avenue C
Thorp Arch Trading Estate
Wetherby
West Yorkshire
LS23 7FR

www.moda-heating.com

12. Disposal

In accordance with WEEE Directive 2012/19/EU, the icon with the crossed-out waste bin on electrical or electronic equipment stipulates that this equipment must not be disposed of with household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your local authority.

The separate collection of waste electrical and electronic equipment enables the re-use, recycling and other forms of recovery of waste equipment, and prevents any negative effects for the environment or human health caused by the disposal of hazardous substances potentially contained in the equipment.