



INTERIOR
USE ONLY



WALL
MOUNTING



TIMER
24/7



THERMAL
PROTECTION



INGRESS
PROTECTION



OPERATION MANUAL

Product Codes: **PH1BKM**
PH1.5BKM
PH2BKM



CED
ELECTRICAL
GROUP

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IMPORTANT SAFEGUARDS

Before use, please read and follow these instructions carefully, even if you feel you are familiar with the product. They contain important information concerning product operation, safety and maintenance. Please retain these instructions for future use and reference



1. **Warning:** In order to avoid overheating, do not cover the heater.
2. When first installed you may experience a burning smell or a little smoke, this is normal and will fade within a few minutes.
3. Only connect the product if the voltage indicated on the product label(s) corresponds with the mains voltage.
4. Do not disconnect the product by pulling on the cord. To disconnect, pull the plug (if have), not the cord.
5. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
6. 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.
7. The heater must not be located immediately below a socket-outlet.
8. Do not use this heater in the immediate surroundings of a bath, a shower or a swimming pool.
9. To protect against fire, electrical shock and injury, do not immerse the appliance power cord or plug (if have) in water or any other liquids.
10. This product has an overheat protection safeguard that turns off the heater. If it does overheat, switch the heater off, disconnect

the heater from wall socket and allow to cool for 45 minutes. The heater can then be switched on again. Carefully check prior to use that the reason for overheating was not curtains, clothing, furniture etc covering any of the heaters air vents.

11. Turn off the appliance and disconnect when not in use. Allow to cool down prior to cleaning. Use a damp cloth for cleaning and finish with a dry cloth. Do not use cleaning chemicals.

12. 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.

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

14. This appliance is intended for indoor use only.

15. Never use the heater to dry clothing or similar items. Do not handle the plug (if have) with wet hands.

16. A means of disconnection from the power supply having a contact opening distance of all poles must be included in the fixed wiring in accordance with the installation requirements.

17. Ensure the heater is installed by a qualified tradesman/electrician.

18. This product must be installed in accordance with the IEE wiring regulations and current building regulations

19. Ensure the appliance is level and securely fixed to the wall. The appliance should have a minimum air gap of 150mm on all side

DISPOSAL

This product must not be disposed of along with the domestic waste. This product has to be disposed at an authorized place for recycling of electrical appliances. By collecting and recycling waste, you help save natural resources, and make sure the product is disposed in an environmental friendly way.



CONTROLS



1. General

When first powering the heater, it will make a beeping sound, the LED display will flash. The factory default, **high level** heat temperature is 20°C, this can be set from 5°C to 35°C by the user and will be displayed in LED window. **Low level** heat temperature is 5°C, and this cannot be altered. Default working mode is P1 and the time is Monday (d1), 12:00. The ⌚ symbol will flash to remind you to set the time.

When the heater is on and producing heat the ☀ symbol, will light on the LED display. The function module is equipped with an accurate thermal cut-out when the programmed temperature is achieved. It has a built in memory with 6 heating programs, of which 5 are pre-defined as "**P1,P2,P3,P4,P5**" and 1 is available for programming by the user as "**UP**".

2. Setting the Day and Time:

When the panel heater is first installed, or has been switched off or disconnected from the mains supply for more than 72 hours, the Day and Time will need to be set again.

2.1 – Press the "Time" button. The LED display will display d.1, and "1" will flash. Use the "+" or "-" buttons to choose the correct day. It's from 1 to 7 which means from Monday to Sunday.

2.2 - Press the "Time" button. The LED display will flash "12". Use the "+" or "-" button to choose the correct Hour. This is from 0 to 23.

2.3 - Press the "Time" button. The LED display will flash "0", use the "+" or "-" button to choose the correct Minute. This is from 0 to 59.

2.4 - Press the "Time" button once more to save. The LED window will return to the display setting temperature, ⌚ will light off.

2.5 - If want to check the time, just press Time button once to show the Day, second time to show the Hour, third time to show the Minute, the fourth time to quit and return to the temperature display.

3. Setting the Temperature:

The LED display will show the current set temperature, press the "+" or "-" button to choose the required temperature, it's from 5°C to 35°C. During low heat time periods, it will display 5°C.

4. Description of the Programs Available:

There are 6 programs which switch the heating between Low Heat and High Heat at various times of the day and night. 5 of which are pre-defined and cannot be altered. These are displayed as "**P1,P2,P3,P4,P5**". The other is the "**UP**" programs which can be defined by the user.

The table over the page shows the Low/High heat setting running times for each available program.

Pre-set program	Days	Description	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
P1	Mon-Fri	9-5 Routine	00:00-6:30	6:30-8:30	8:30-17:00	17:00-22:30	22:30-24:00		
	Sat-Sun		00:00-7:30	7:30-10:00	10:00-12:00	12:00-14:00	14:00-17:00	17:00-22:30	22:30-24:00
P2	Mon-Fri	Office	00:00-6:00	6:00-17:00	17:00-24:00				
	Sat-Sun		00:00-24:00						
P3	Mon-Sun	Commercial Location	00:00-6:00	6:00-22:00	22:00-24:00				
P4	Mon-Sun	Constant Heating		0:00-24:00					
P5	Mon-Sun	Frost Protection	0:00-24:00						
UP		User program, runs at the time defined by the user – See Section 4.2							

4.1 Setting the Chosen Program:

To select a program to run:

- 1) Press the “Prog” Button on the side of the heater. The current selected program will be displayed;
- 2) Press “+” or “-” to scroll through the available programs until you find the required one.
- 3) Wait 5 seconds, the selected program will be saved and run, the LED display will once again show the current set temperature.

4.2 - Changing the Settings for the User Program "UP":

The "UP" program allows the heater to be programmed to switch from low to high heat output settings at required times. Each day of the week can have different settings. A maximum of three interval high heat output times can be input per day. The time not covered in these 3 intervals will run at the low temperature setting (5°C)

To program the high level heating settings for the "UP" program:

- 1) Press the “Prog” button and “+” or “-” until “UP” is displayed on the LED display.
- 2) Long press the “Time” button for 3 seconds within 5 seconds, the LED display will show “d.1” and  will light on. You are now setting the first time interval for Monday.
- 3) Press the “Time” button within 2 minutes, the LED display will display “1”, You are now setting the Starting hour for the first time interval of the day.
- 4) Press “+” or “-”, the display will show “0” firstly, continue press “+” or “-” until the display shows the required starting hour.
- 5) Press the “Time” button, the LED display will now show the number 1 hour after the starting time. press “+” or “-” until get the required finished hour.
- 6) Press the “Time” button to save above setting, and LED display “2”, it comes to the 2nd time interval for high heat output.
- 7) Repeat step 3) to 6) to set the 2nd and 3rd intervals.
- 8) On setting all three intervals the heater will then move on to d.2 and you will need to repeat the process for each day of the week. If you only need to set 1 or 2 time intervals for the day, just press

the "Time" button until the LED Display shows the next d. number.

- 9) If all days have been set the unit will save the setting and
- 10) If no buttons are pressed within 2 minutes or you press the "Prog" button, it will quit setting and LED Display will show the set temperature once again.

5. Check the "UP" Program Setting:

- 1) Press the "Prog" and "+" or "-" to display "UP", then press "Time", LED window display "d.1", press "+" or "-" to choose from d1.d2.d3.d4.d5.d6.d7 to get the correct day you want to check.
- 2) Press "Time", the LED display "1"
- 3) Press "Time", the LED display will show starting hour.
- 4) Press "Time", the LED display will show finish hour.
- 5) Repeat step 2) to 4) to display 2nd and 3rd high level heat output time interval.
- 6) If no time is input for a time interval, it will display "--".

6 - LED Light

15 seconds no operation, LED light will be decreased by half; Or press "PROG"+"TIME" buttons at the same time for 3 seconds, LED light will be shut off.

7 - Open Window Function

Press "+" and "-" button at the same time for 3 seconds, open window function will be activated,  will flash on the display. Heater will transfer to work under Frost Protection program at +5°C if temperature decreases +4°C within 30 minutes. And it will recover working under previous working program if temperature recovers +2°C. Or recover working by pressing "+" and "-" button at the same time for 3 seconds.

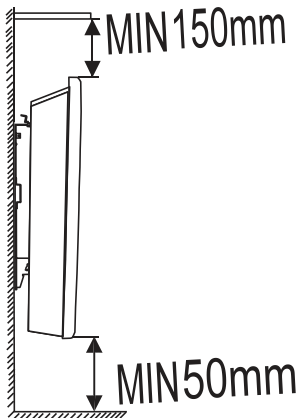
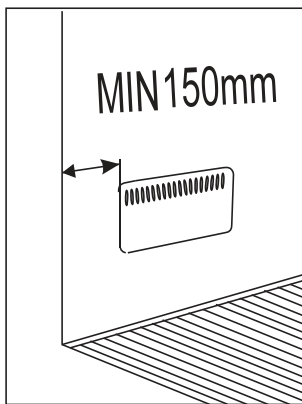
8. Child Lock:

- 1) Press the "Prog" button for 5 seconds, all the buttons will be locked, The symbol "  " will light on LED window.
- 2) Press the "Prog" button for 5 seconds again, all buttons will be unlocked.

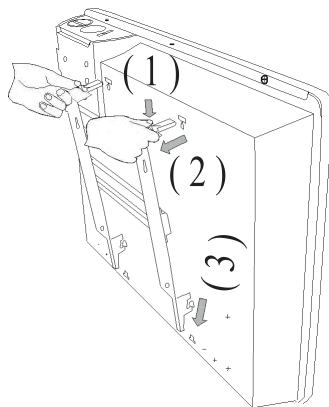
INSTALLATION GUIDE

For Wall Mounted Installation:

1. When mounting the heater on a wall do not attach the foot plates to the base.
2. Make sure the heater is unplugged and the power switches are off. Ensure the wall is suitable for mounting this panel heater.
3. Ensure the sides of the appliance have at least a 150mm clearance.



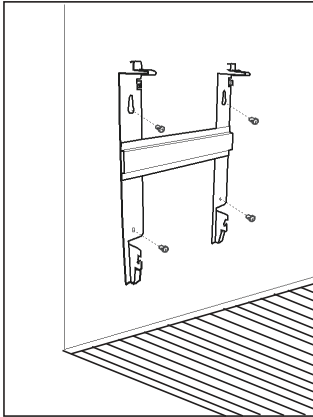
4. Detach the mounting bracket from the back of the panel heater following the steps below.



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5. Positioning the bracket level on the wall mark your mounting holes and drill the holes as required.

6. Secure the mounting bracket to the wall with the 4 mounting screws provided.

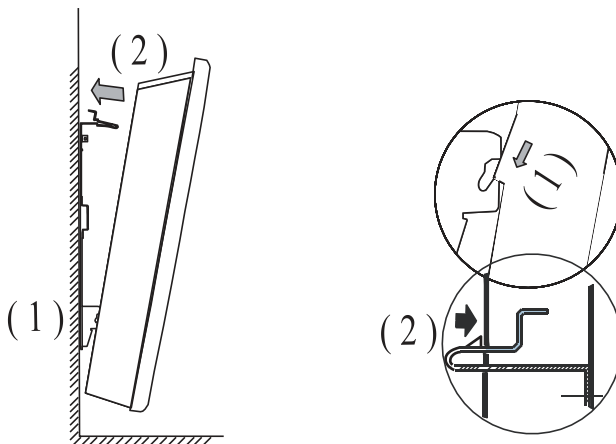
(For masonry walls use the plastic sheaths with screws provided)



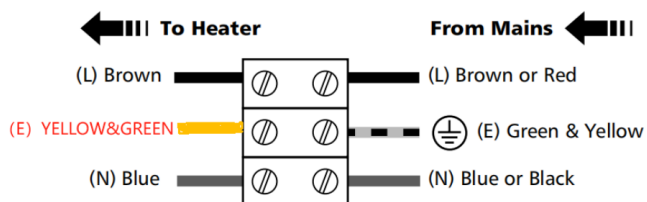
7. Hang the hooks of the bracket into the back of heater. (Fig.1).

8 Push the heater into the upright position, the upper hook will slide into the back of the heater. (Fig.2).

9. Plug or hardwire the heater into a 220~240 supply.



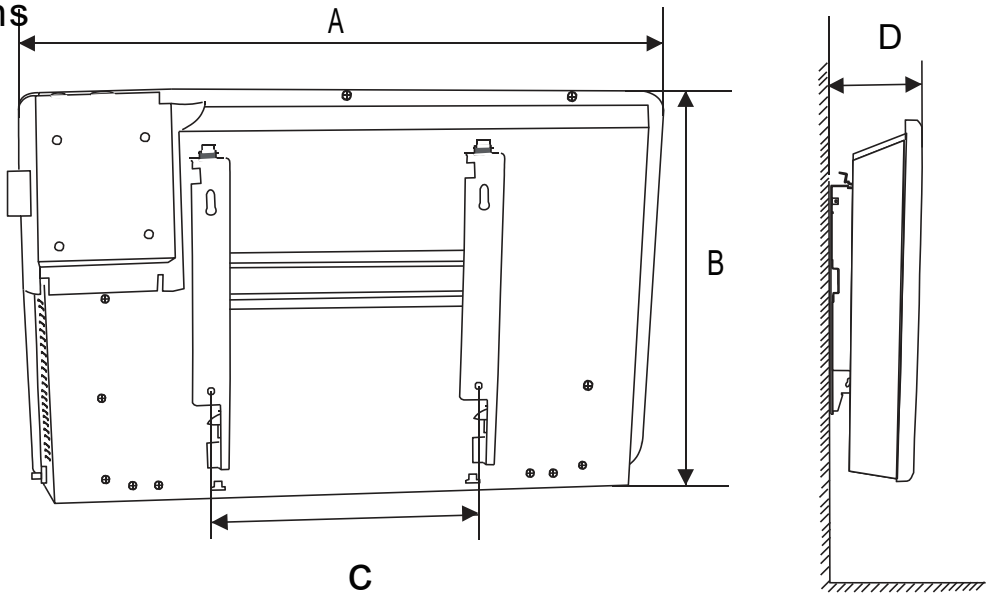
9. Plug or hardwire the heater into a 220~240 supply. Means for disconnection must be incorporated in the fixed wiring in accordance with the Wiring rules.



IMPORTANT: If in doubt, or if no suitable connection unit is available, consult a suitably qualified electrician.

INSTALLATION GUIDE

Dimensions



Watts	A(mm)	B(mm)	C(mm)	D(mm)
1000	500	400	190	95
1500	640	400	190	95
2000	940	400	390	95
Above specification is subject to change without prior notice for purpose of improvement				

OVERHEAT PROTECTION

This product has protective safeguards that shut off the product when part become in danger of overheating. If it does overheat, switch off your panel heater and remove the main plug from the power socket. Allow your heater to cool for 45 minutes. The unit will work again when it has cool down.

Carefully check obvious cause like curtain or clothes that may have prevented air from accessing the inlet or outlet grill.

CARE AND CLEANING

The heater requires regular cleaning to ensure trouble free operation:

- Unplug the heater from the mains supply before cleaning.
- Use a damp cloth to wipe the exterior of the heater to remove dust and dirt.
- Use a vacuum cleaner to remove dust and fluff from the inlet and outlet grills.
- To clean behind the heater (when mounted on a wall):unfasten the two hooks located on the top of the mounting bracket to tilt the heater forward. When the heater is tilted forward, it is easier to clean behind it. It is important to return the heater to its original position after cleaning and to refasten the hooks.
- Ensure the heater is dry before plugging back into the mains supply.

If your heater does not work:

- Check that power is available to the heater.
- Check the ambient temperature of the room against the programmed set temperature.
- Check that the thermal cut-out has not operated.(Service staff only)
- Do not attempt to repair the heater.
- Please call your local dealer for service advise.

LOT20 Compliant

Item	Symbol	Value	Unit
HEAT OUTPUT - PH1BKM			
Nominal Heat Output	P_{nom}	1.00	kW
Minimum Heat Output (Indicative)	P_{min}	N/A	kW
Maximum Continuous Heat Output	$P_{max,c}$	0.90	kW
HEAT OUTPUT - PH1.5BKM			
Nominal Heat Output	P_{nom}	1.5	kW
Minimum Heat Output (Indicative)	P_{min}	N/A	kW
Maximum Continuous Heat Output	$P_{max,c}$	1.40	kW
HEAT OUTPUT - PH2BKM			
Nominal Heat Output	P_{nom}	2.00	kW
Minimum Heat Output (Indicative)	P_{min}	N/A	kW
Maximum Continuous Heat Output	$P_{max,c}$	1.90	kW
AUXILIARY ELECTRICITY CONSUMPTION			
At Nominal Heat Output	e_{lmax}	N/A	kW
At Minimum Heat Output	e_{lmin}	N/A	kW
In Standby Mode	e_{lsb}	0.00	kW

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 Mechanical 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	[Yes]
Other control option (Multiple selections possible)	
Room Temperature Control, with Presence Detection	[No]
Room Temperature Control, with Open Window Detection	[Yes]
With Distance Control Option	[No]
With Adaptive Start Control	[No]
With Working Time Limitation	[No]
With Black Bulb Sensor	[No]



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