

# BIA-IHP

by  **INNOV** INC.



## Installation manual

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You just purchased this radiant heating unit **BIA-IHP** by CJ<sup>2</sup> Innov and we thank you for your choice.

This unit has been studied, designed and built with care for your complete satisfaction.



**INNOV**<sub>INC.</sub>

**This product  
MUST  
be connected to a  
timer or to a  
thermostat**

**GENERAL INSTRUCTIONS**

Before installing and using the unit, please read carefully this notice.

1. BIA-IHP is a heating unit made with aluminium, it is therefore sensitive to shock.
2. The installation must meet the standards of public safety.
3. The electric installation on which the heating unit will be connected must be protected with a circuit-breaker.
4. This unit is compliant with current standards (see technical sheet if required).
5. Heating solution BIA-IHP may be used indoor, in every room, including bathrooms (comply with installation areas). **Do not use outdoors.**
6. You may use this heating unit as described in this manual. Other uses not recommended by the manufacturer may cause fire, electric shock or hurt someone.

**PRECAUTIONS FOR USE**

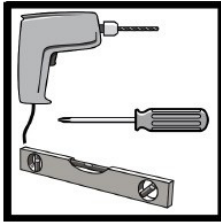
1. The electric connection must be done by a qualified electrician. To unplug the heating unit, turn off the controls and power of the circuit to the main panel. BIA-IHP is a radiant heater. Do not install anything less than 25 cm (10 inches) from its emitting area.  
**NOTICE** : Do not cover to avoid overheating. **Never obstruct the top of the heater in any way.**
2. This unit is hot while used. To avoid burn, do not touch hot surfaces with bare skin. Keep flammable material like furniture, pillows, linen, paper, clothes, curtains, etc. at minimum 50 cm (20 in.) in front of the unit and keep them far from each side and the back (side and back restrictions apply for permanent electric units).
3. Note that the emitting surface can go up to 80°C (176 F). Maintain the minimum distance between BIA-IHP and surrounding objects.
4. **It is mandatory to connect BIA-IHP to a control system (Thermostat, timer, ...)**
5. The emitting surface must be towards the room and object to heat.
6. BIA-IHP is a certified unit for its efficiency and its security. Like all heating units, prolonged contact can cause burns.
7. If the power cable is damaged, it has to be replaced by a qualified electrician. In any case, use a type SJOOW 14/2 cable.
8. Do not try to take the unit apart, you will lose your warranty. Do not use the unit after a failure. Disconnect from main panel and have it inspected by a qualified electrician before using it again.
9. To clean BIA-IHP, turn it off and wait until it has cooled down. Clean with a soft damp cloth.
10. BIA-IHP is not design to be used by children unless instructions and security rules have been given and understood. A greater caution is necessary when unit is used by or close to children and when the heating unit is working unattended.

**COMPOSITION**

BIA-IHP is made of :

- Aluminum emitting surface
- Heating film
- Brackets
- 1,50m connecting cable.

## INSTALLATION OF BIA-IHP HEATING UNIT



Tools required for the installation.

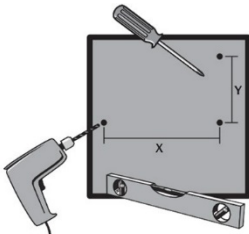


Accessories included with BIA-IHP. You may not have to use them, depending on the type of walls.

## MARKING AND DRILLING

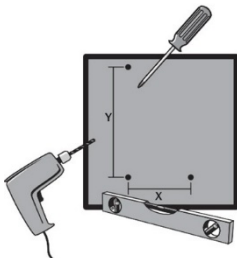
Installation and activation. To facilitate the installation of your BIA-IHP heater, the wall bracket will be used as the installation template.

### REMINDER OF THE DISTANCES FOR DRILLING



#### HORIZONTAL ORIENTATION

	Horizontal spacing ( X )	Vertical spacing ( Y )
BIA-IHP 2424	356mm	343mm
BIA-IHP 4824	356mm	915mm
BIA-IHP 4141	711mm	660mm



#### VERTICAL ORIENTATION

	Horizontal spacing ( X )	Vertical spacing ( Y )
BIA-IHP 2424	343mm	356mm
BIA-IHP 4824	915mm	356mm
BIA-IHP 4141	660mm	711mm

### Choosing where to install the heating unit

Position the template (wall bracket) on the wall to choose the best place for your BIA-IHP heater and rely on indicated mark. Make sure you comply with the minimal distance around the heater of 25 cm (10 in) with an obstacle or wall angle. Adjust the position with your level. Identify the drilling marks depending on the size of the heater. Drill the wall.

## INSTALLATION INSTRUCTION

Please review the following procedure to install properly a BIA-IHP far infrared heating panel. Be sure to space the brackets correctly using the measurements on the previous page, depending on the size of your device

Mark the mounting locations using the dimensional information from the previous section and install the mounting brackets (be sure the brackets face the same direction). Where possible (in joist ceilings and/or stud walls) at least one of the brackets' mounting holes should be over a stud or joist. The other(s) should be installed using appropriate anchors. These anchors need to be chosen after reviewing the local mounting requirements. This optional anchor hardware is not included as installations vary by building and region.

Installation :

Figure 1a

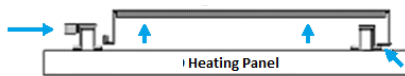


Figure 1b

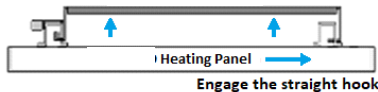
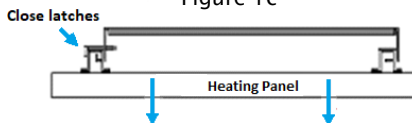


Figure 1c



1. Locate an area near an active power outlet, or employ an electrician to provide a power outlet within 6½ feet (2.0m) of the heating panel.
2. Install the two mounting brackets. Wherever possible utilize the holds which are closest to each end.

3. Using a flat blade screwdriver open the safety latches. See **Figure 1a**.
4. Ensure that the intended power outlet or relevant circuit breaker is switched off.
5. While a helper holds the panel, route the power cord to the outlet. Do not activate the circuit breaker for this circuit until the installation is completed.
6. Plug the power plug into the outlet.
7. Place the panel near the mounting brackets and engage the right-hand (straight) hook. See **Figure 1b**.
8. Slide the panel onto the bracket by holding it gently against the wall or ceiling to engage the left-hand hook.
9. If wall mounted, pull the top of the panel away from the wall and engage the safety latches (use a screwdriver or suitable tool if needed). If ceiling mounted, allow the panel to rest on the brackets, slide it to the latch side and close the safety latches. See **Figure 1c**.
10. Plug in the panel or engage the circuit breaker and test the panel operation.

The BIA-IHP far infrared heating panels may be suspended from joist or rafters by steel cables or chains in a manner compliant with local building codes. It is not advised to use nylon or polyethylene cord to suspend the panels as these materials are flammable.

When mounting the panels on conventional ceilings local building codes may require additional steel cables, or chains to secure the panels to the rafters or joists above. Wires, cables and/or chains may be secured through the appropriate size holes at the ends of the panel's mounting brackets.

Please contact your CJ<sup>2</sup> Innov representative for further advice on mounting panels, thermostats and/or control systems.

**CAUTION!** To minimize the risk of fire and to prevent the undesired loss of performance (caused by voltage-drop) do not use extension cords to power the heaters.

## TYPICAL DOMESTIC INSTALLATION – CEILING VS WALL

### Infrared Heating System - Ceiling Mounted *Recommended Set-up*

Figure 2a

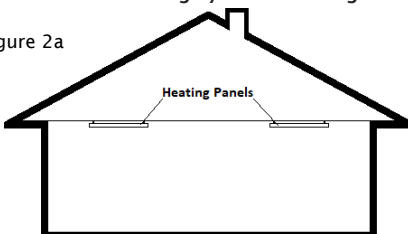
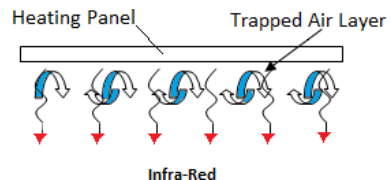


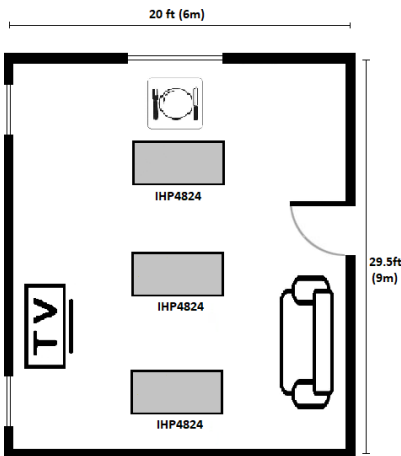
Figure 2b





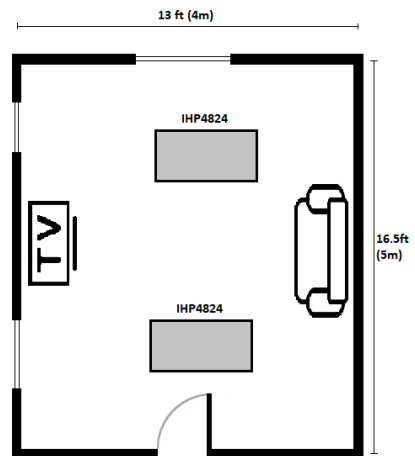
- IR Panels mounted on ceilings for highest efficiency. The ideal panel installation minimizes convection at the panel, and maximizes Infra-Red emission. Convection depends on the flow of air close to the panel surface, and so the simplest way to minimize it is to use the panel itself as a barrier to air movement – see **Figure 2b**.
- When installed as shown in **Figure 2a** (Horizontal, at ceiling height), the full benefits of the BIA-IHP heating panels will be obtained. The layer of trapped air stays close to the panel, and consumes little power.
- Wall mounted panels can lead to greater heat losses to outside walls.
- Independent tests have shown 20% lower heat losses/better efficiency with ceiling mountings.

Figure 2c – Large Room Installation Plan View (6m by 9m)



- In **Figure 2c** above, three heating panels are required as the room area is 54m<sup>2</sup> (581ft<sup>2</sup>).
- It is best practice to mount each heater away from the adjacent walls to minimize any undesirable heat losses.

Figure 2d – Small Room Installation Plan View (4m by 5m)



- **Figure 2d** shows a smaller room heat installation of 20m<sup>2</sup> (215ft<sup>2</sup>). *Note figures are not to scale.*
- In this case, two heating panels are necessary to maintain a comfortable heating environment. Note the heating panel is placed close to the typical seating area for maximum benefit.

## Infrared Heating System – Wall Mounted *Alternative Set-up*

Figure 2e

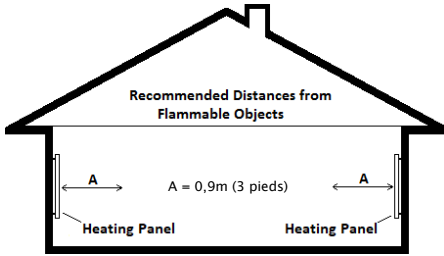
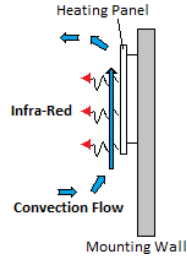


Figure 2f

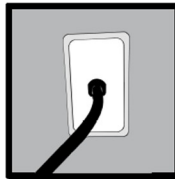
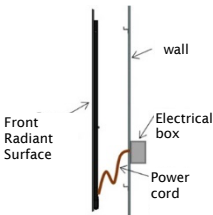


- **Figure 2e** shows wall mounted heating panels and the recommended distances from flammable objects.

- **WARNING** - Do not cover the heating panels with clothing, towels, rugs, curtains or any such insulating material. This prevents the heating panel from operating correctly and can lead to failure. Such failure is not covered by the limited warranty.

With wall mounted installations convections losses are increased due to air currents formed in the room. See **Figure 2f** for an illustration of convection air currents formed on vertically mounted panels.

## ELECTRIC CONNECTION AND FUNCTION



Direct connection to the line

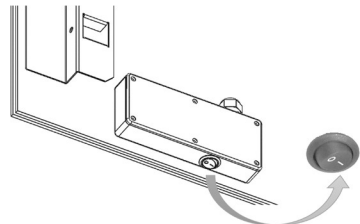


Protect the line with a breaker



Switch on

Once the installation is completed, place the switch located under the BIA-IHP heater in position I.



## SPECIFIC INSTRUCTIONS

- Use BIA-IHP unit only for recommended applications.
- For effective guarantees, BIA-IHP heater should always be mounted with elements provided (bars, control...).
- The electrical connection must meet the electrical standards.
- The electrical installation on which will be connected BIA-IHP must necessarily be protected by an RCD (25 or 30 Ma).
- The heater BIA-IHP should always be connected to the mains (240V AV 50/60 Hz) by a circuit protected by a 15A circuit breaker overcurrent placed in an electrical distribution. The entire system must be protected by a circuit breaker
- The electrical connection must be performed by a qualified electrician.
- BIA-IHP heating solution is suitable for indoor use, in every room, even the bathroom (comply with installation area),
- Do not install BIA-IHP if the product is damaged or shows signs of impacts.
- BIA-IHP must be connected to a control system (Thermostat, timer, ...)
- The top of the BIA-IHP should never be obstructed in any way.

## TECHNICAL SPECIFICATIONS

<b>BIA-IHP HEATER</b>	
Voltage	120 / 240 V
Maximum current	10A
Class	II
IP Protection	IP 44
Power	500W / 750W / 1100W
Indicative Power for a ceiling height of 2,5 meters	54W / m <sup>3</sup>

<b>BIA-IHP RANGE</b> See brochure for the complete list of products	<b>POWER</b> (Watt)	<b>WIDTH</b> (mm)	<b>HEIGHT</b> (mm)
Range	500 / 750 / 1100	600/1050	600/1200 / 1050
Standard Color	White		
Pantone Colors	Upon request		

## REPAIR

In case of damage during the warranty period and after, contact your dealer or manufacturer below :

**MANUFACTURER :**

CJ2 INNOV INC. | [info@cj2innov.com](mailto:info@cj2innov.com) | [www.cj2innov.com](http://www.cj2innov.com)

## WARRANTY

- 3 years for BIA-IHP heater.
- The warranty period starts from the date of purchase shown on the invoice or receipt.
- The warranty applies in addition to any statutory rights.

## OUR COMMITMENT

### THE FIRST 3 YEARS :

- If a defect covered by this warranty is found, CJ<sup>2</sup> INNOV will replace the product with a new one for free.

This warranty is limited to the repair or the replacement of the product. The product repaired, with the written authorization of CJ<sup>2</sup> INNOV within the warranty period, will be guaranteed for the remaining period of the warranty. This warranty will not be valid and CJ<sup>2</sup> INNOV could refuse a claim if the product has been modified in any way without written consent by CJ<sup>2</sup> INNOV or if the numbers shown on the label have been removed or modified. This warranty does not cover scratches, bumps, corrosion or discoloration caused by excessive heat, chemical cleaning products or abrasive agent. Furthermore, it does not cover damages or breakage during transportation.

**NB :** Our commitment is limited to providing a new product. Installation costs and other expenses in connection with such work are not covered.

## WARRANTY CONDITIONS


Any request under the guarantee is subject to the terms and conditions set out below:

- The warranty is only valid in the context of interior use.
- The warranty covers defects arising during the manufacture of the equipment. It does not cover damage caused by third parties (damages during transportation or installation).
- No warranty is offered for damages arising from misuse, abuse, accidents or natural disasters, or for damages resulting from other unusual circumstances under residential applications.
- The warranty does not apply if the products are not installed according to the recommendations of CJ<sup>2</sup> INNOV.
- Damage resulting from maintenance or improper cleaning, overloading, damage due to the influence of moisture are also excluded from coverage under this warranty.
- The warranty is void if the products are installed despite visible defects.
- CJ<sup>2</sup> INNOV reserves the right to inspect the damage on site after agreeing a reasonable inspection date to verify the conformity of the situation in the terms and conditions of warranty.
- This warranty supersedes all other warranties. The warranty coverage is subject to the version of the warranty in effect at the time of the purchase.
- **Please note: our commitment is limited to providing a new BIA-IHP. Installation costs and other direct or indirect, incidental or consequential costs related to this work are not covered and CJ<sup>2</sup> INNOV disclaims any liability related thereto.**
- Damage resulting from improper maintenance and cleaning, overloading, inadequate structure or damage due to the influence of mechanical stress is also excluded from coverage under this warranty.
- No agent or representative or distributor has the authority to modify this warranty.
- **Please fill the information card « Warranty Certificate » and return it to us without delay by email at [info@cj2innov.com](mailto:info@cj2innov.com) or by phone at 819 960-3357 to take advantage of your warranty.**



**WARRANTY CERTIFICATE**

To preserve your rights, please fill in and return the certificate to the manufacturer at [info@cj2innov.com](mailto:info@cj2innov.com)

<b>DISTRIBUTOR</b>	
<b>WARRANTY CERTIFICATE</b>	
Product :	
Serial number :	
Name :	
Street :	
City :	
Province :	
Postal Code :	
Country :	
Phone :	
Email :	
Date of purchase :	
Installer :	
Installation date :	
Problems encountered:	<hr/> <hr/> <hr/> <hr/>
<p style="text-align: center;"><b>CAUTION</b></p>  <p>Risk of electric shock. Do not open. No user-serviceable parts inside.</p>	<hr/> <hr/> <hr/> <hr/>

By :  **INNOV** INC.

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