

## ALLEGRO



## Installation & Operating Instructions

**ATTENTION :** Documents to be kept by the end-user

## INTRODUCTION :

Dear owner,

- Congratulations on the purchase of this premium electric heater from CONVECTAIR, manufacturer of the highest quality heating product in the electrical industry.
- To obtain the best results and the ultimate in performance and comfort, please take a moment to read the installation and maintenance instructions shown in this manual.

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# - QUICKSTART GUIDE -

Heat on / Heat Off key



Temperature setting keys

## Electrical requirements : 240 V

The electrical supply cable should be located 150 mm (6 in.) from the floor, centered on the heater.



## Installing and connecting the heater :

See diagrams on pages 6, 7, 8 and 10.

## To turn the heater ON or OFF :

Press the  key (p.12).


## To set the temperature :

In Comfort mode (temperature is displayed) - press  or  to increase or decrease the set point (p.13).



## Changing from °C to °F :

Turn the heater OFF. Press both  and  keys for 3 seconds (p.13).

## Changing mode :

Press the  (Comfort > Economy > Frost protection > Program > Comfort >... p.14-15).

## Locking or unlocking the control panel :

press  and  together and hold for 3 seconds (p.15).

## Diagnostics : p.19.

## Contact CONVECTAIR : p.20.

# 1

## SPECIFICATIONS

### Optional accessories :

For greater comfort and energy efficiency, several programming modules can be added to this heater : the Pilot Wire Programmer or the wireless Power Carrier Master and Receiver modules. For more information, call your CONVECTAIR electrician or dealer, or contact CONVECTAIR directly (see contact info at the end of this booklet).



Side wire cover kits are available for situations where connecting wires need to be hidden from view. Call your CONVECTAIR electrician or dealer, and be sure to specify the model number.

# 2

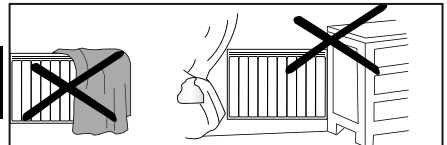
## SETTING UP

### Heater installation

This heater must be installed in accordance with national and local codes and CONVECTAIR recommends an installation by a qualified electrician.



**IMPORTANT :**  
**DO NOT COVER THE HEATER**



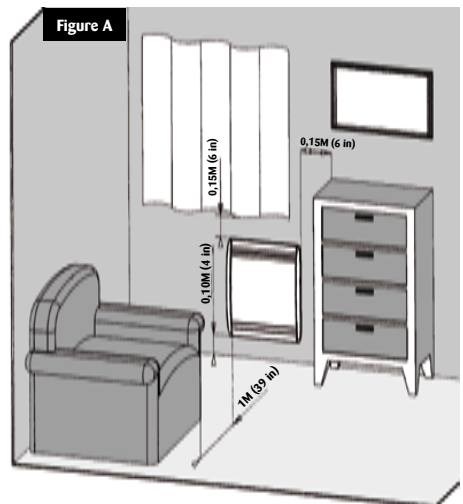
Covering the heater can result in severe overheating.

The above logo warns of risk : do not cover.

Do not cover or obstruct the air intake or outlet on the unit as this could cause overheating and damage the heater.

When choosing a location for this heater, avoid drafty areas which can affect the thermostat.

Make a note of the minimum required clearances (height from floor, distances from side walls or furniture, drapes, etc). See Fig.A.



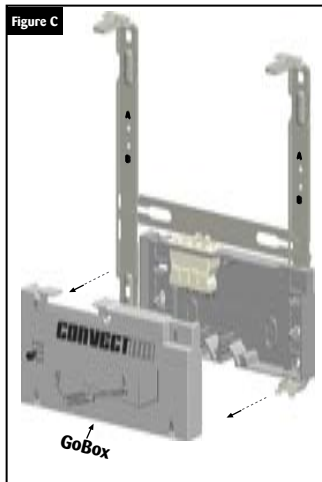
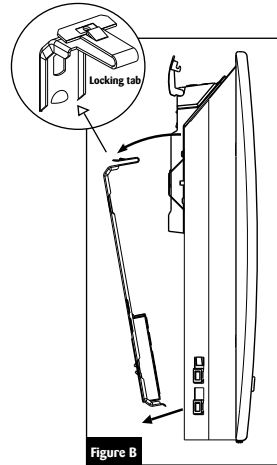
# 3

## INSTALLATION

### Plan ahead :

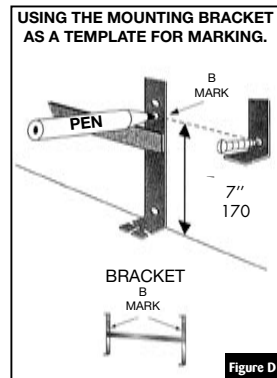
- Determine the heater location, taking into account the required clearances (Fig.A.).
- Ensure that the electrical wiring is accessible near the heater connection box : 6 in. (15 cm) off the floor, centered on the heater (see page 6 – Type A), and that a sufficient length is available for the connection.
- If a wall junction box is required, position this box horizontally, with the bottom edge of the box at 6 in.(15 cm) above the floor positioned as shown on page 6 – Type B.

1- Remove the bracket from the heater by pressing and pulling both locking clips (Fig. B).



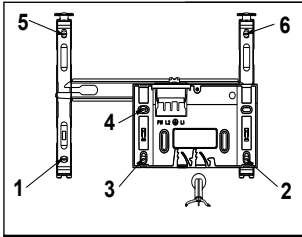
2- Unclip the cover of the plastic connection box (Fig. C).

3- Use the mounting bracket as a template by holding it against the wall, flush to the floor. Use the «B» marks to locate the bottom fasteners (Fig. D). This will place the heater at 4” off the floor.



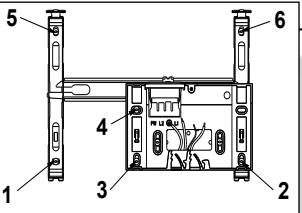
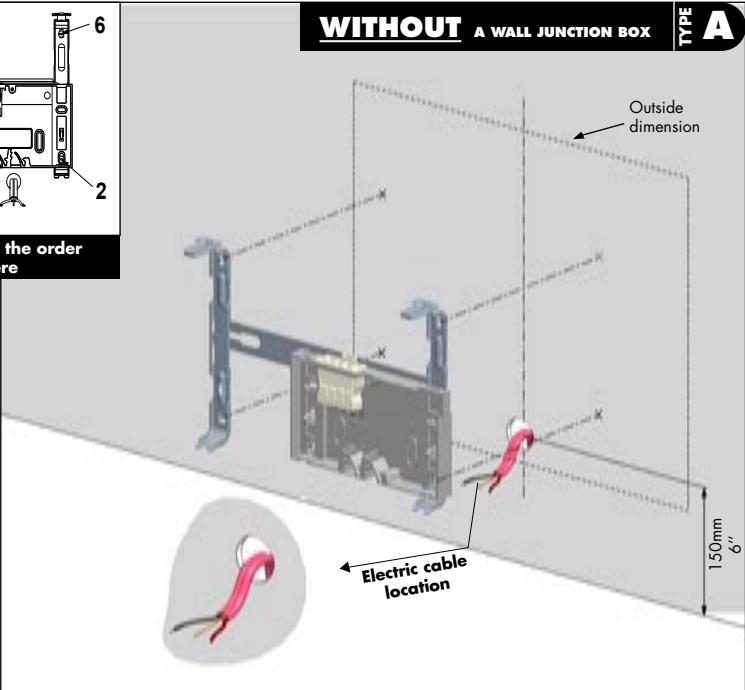
4- Raise the bracket into position lining up the bottom holes with the wall marks. Check that the bracket is level and that it is right side up (Fig. E – F – G).

5 - Fasten the bracket according to the Type A or B diagrams (page 6), using 4 screws for the bracket and 2 screws for the GoBox, tightening the screws in the order shown on page 6.



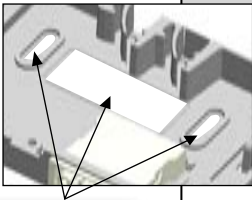
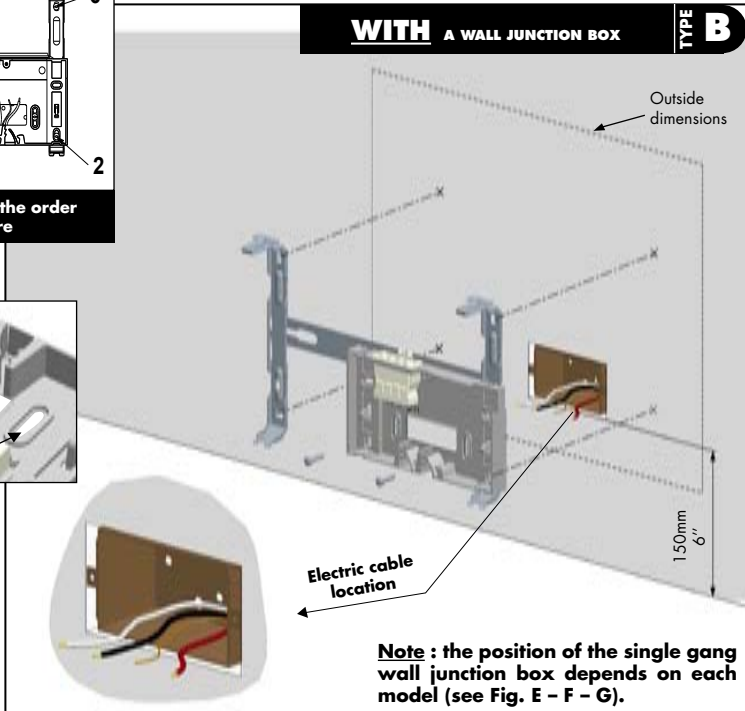
**Tighten screws in the order shown here**

**WITHOUT A WALL JUNCTION BOX** TYPE **A**



**Tighten screws in the order shown here**

**WITH A WALL JUNCTION BOX** TYPE **B**

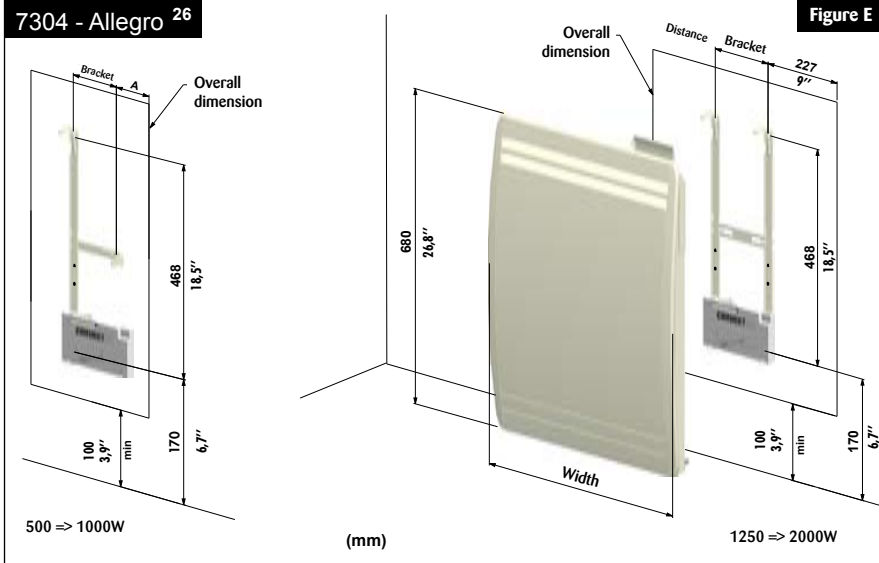


**For installation over a wall junction box, remove the knock-out panels as shown.**

**Note :** the position of the single gang wall junction box depends on each model (see Fig. E - F - G).

### 7304 - Allegro 26

Figure E

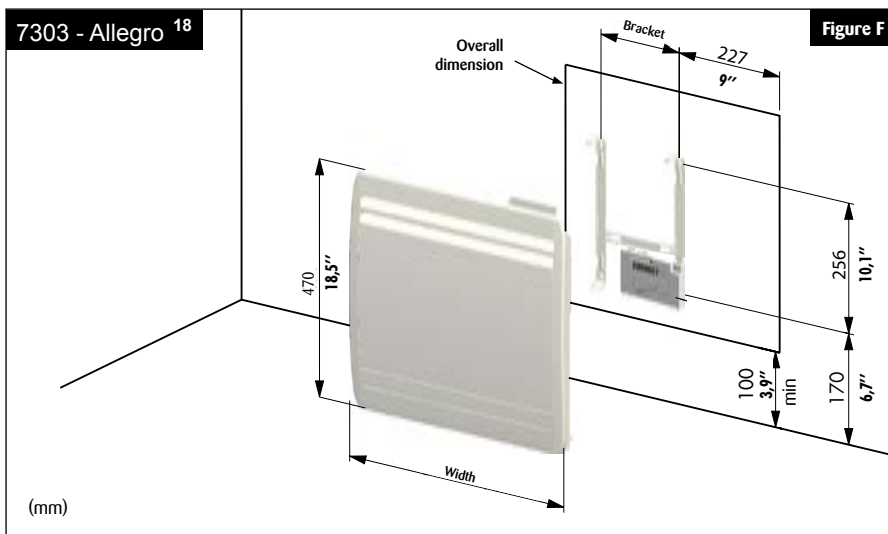


7304 - ALLEGRO 26 - Figure E

Power (W)	500		750		1000		1250		1500		1750		2000	
Bracket	137mm	5,4"	178mm	7"	178mm	7"	140mm	5,5"	178mm	7"	248mm	9,8"	320mm	12,6"
Width	329mm	13"	369mm	13"	409mm	16,1"	489mm	19,3"	569mm	22,5"	649mm	25,6"	769mm	30,3"
A	115mm	4,5"	115mm	4,5"	135mm	5,3"	227mm	9"	227mm	9"	227mm	9"	227mm	9"
Height	680mm	26,8"	680mm	26,8"	680mm	26,8"	680mm	26,8"	680mm	26,8"	680mm	26,8"	680mm	26,8"

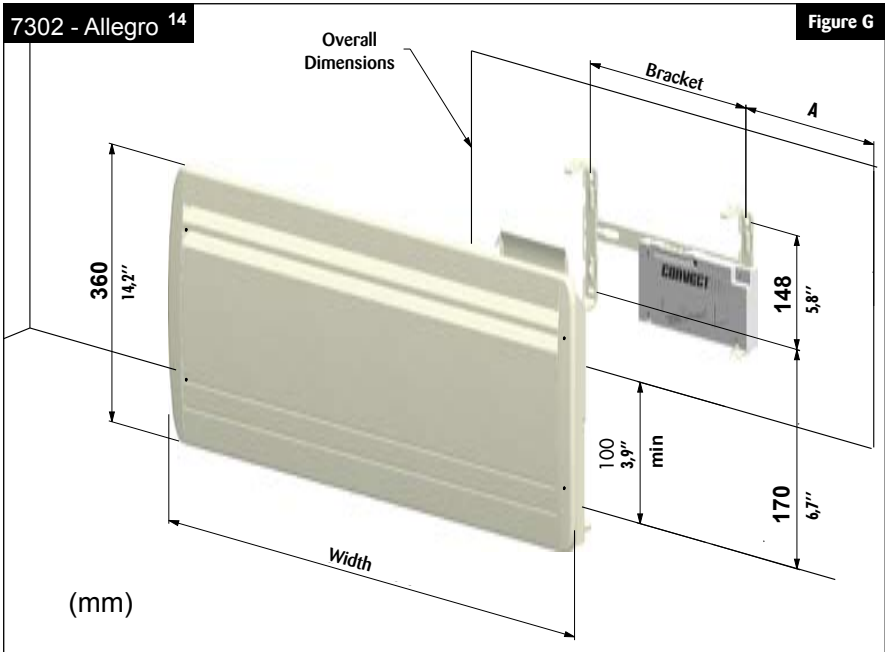
### 7303 - Allegro 18

Figure F



7303 - ALLEGRO 18 - Figure F

Puis. (W)	500		750		1000		1250		1500		1750		2000	
Bracket	178mm	7"	178mm	7"	248mm	9,8"	320mm	12,6"	405mm	16"	405mm	16"	405mm	16"
Width	489mm	19,3"	489mm	19,3"	569mm	22,5"	649mm	25,6"	769mm	30,3"	849mm	33,5"	849mm	33,5"
Height	470mm	18,5"	470mm	18,5"	470mm	18,5"	470mm	18,5"	470mm	18,5"	470mm	18,5"	470mm	18,5"



7302 - ALLEGRO 14 - Figure G

Power (W)	500		750		1000		1250		1500		1750		2000	
Bracket	140mm	5,5"	178mm	7"	248mm	9,8"	405mm	16"	405mm	16"	535mm	21,1"	535mm	21,1"
Width	489mm	19,3"	569mm	22,5"	649mm	25,6"	849mm	33,5"	849mm	33,5"	1129mm	44,5"	1129mm	44,5"
A	227mm	9"	227mm	9"	227mm	9"	222mm	8,7"	222mm	8,7"	297mm	11,7"	297mm	11,7"
Height	360mm	14,2"	360mm	14,2"	360mm	14,2"	360mm	14,2"	360mm	14,2"	360mm	14,2"	360mm	14,2"



## 4 ELECTRIC CONNECTION

CONVECTAIR recommends that this heater be installed in accordance with national and local codes.

- To prevent short circuits and electrical shocks turn the power off at the main panel before attempting the installation or any repairs.
- If the power cable is damaged it must be replaced by the manufacturer, an approved service depot or a technician with similar qualifications.

### **CAUTION :**

This heater must be connected to a 240 Volt or 208 Volt (60 cycles) circuit. Disconnect the power supply before making wiring connections to prevent electrical shock and equipment damage. If you are using a Programmer system, make sure to cut the power off ALL electrical heating circuits in the home (for more information, see the CONVECTAIR model 7392 installation notice).

### **Be aware :** Wiring color coding.

When connecting the heater's connection box to the house wiring, maintain the same color code for all heaters.

L1 = Power, Line 1 – red (in the US : white)

$\frac{=}{=}$  = Ground ( ) - copper wire

L2 = Power, Line 2 – black

PW = PILOT WIRE

See Fig. K and L

**The Pilot Wire (PW) must never be connected to the ground.**

## CONNECTING THE HEATER

- Connect the supply wire coming from the wall into the connection block inside the GoBox in the right sequence (see «Wiring Color coding, page 9).

**WITHOUT**  
wall junction  
box

**A**  
TYPE

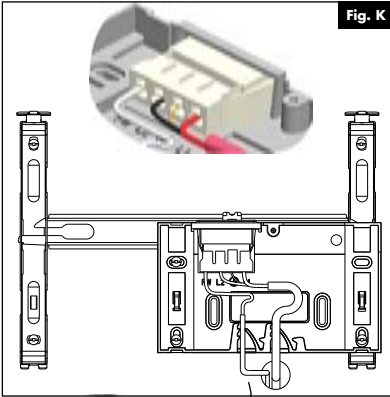
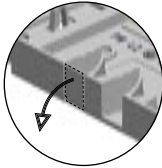


Fig. K



**To install the Pilot Wire (PW),  
do not forget to detach the tongue  
on the bottom side of the  
GoBox (as above).**

**B**  
TYPE

**USING** a wall  
junction box

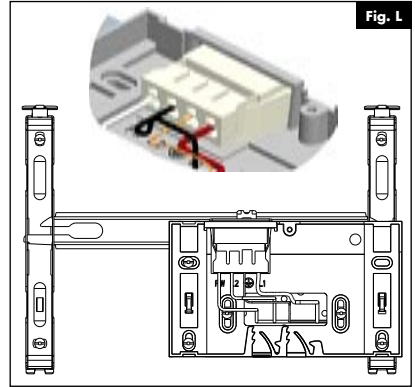
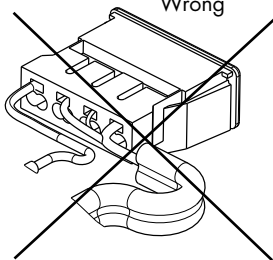


Fig. L

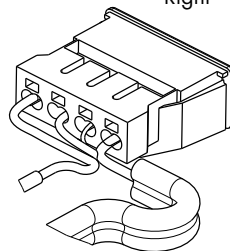


**CAUTION BEFORE CONNECTION**

Wrong

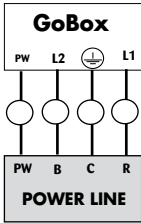


Right



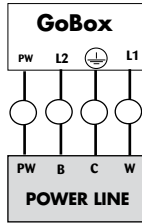
## WITH the use of a pilot wire (PW).

### CANADA



B - Black

### U.S.A.

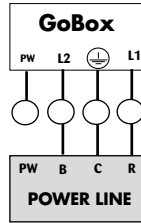


R - Red

W - White

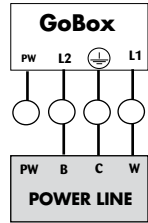
## WITHOUT using a pilot wire (PW).

### CANADA



C - Copper

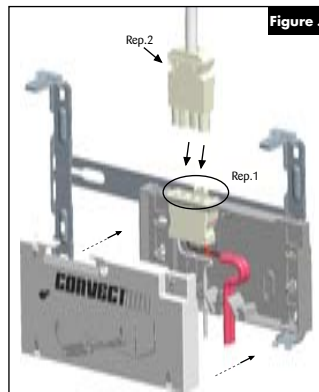
### U.S.A.



PW - pilote wire

## MOUNTING THE HEATER.

- Place the cover on the GoBox, clipping each corner into position, and lock it with the supplied screw.
- Insert the heater plug (Fig J, rep 2) into the GoBox receptacle (Fig. J, rep 1) until it is locked in place.
- Holding the heater at an angle towards you, hook the lower bracket tabs into the heater.
- Push the heater towards the wall until it clicks into the upper locking tabs (**Do not pinch the connecting cord**).

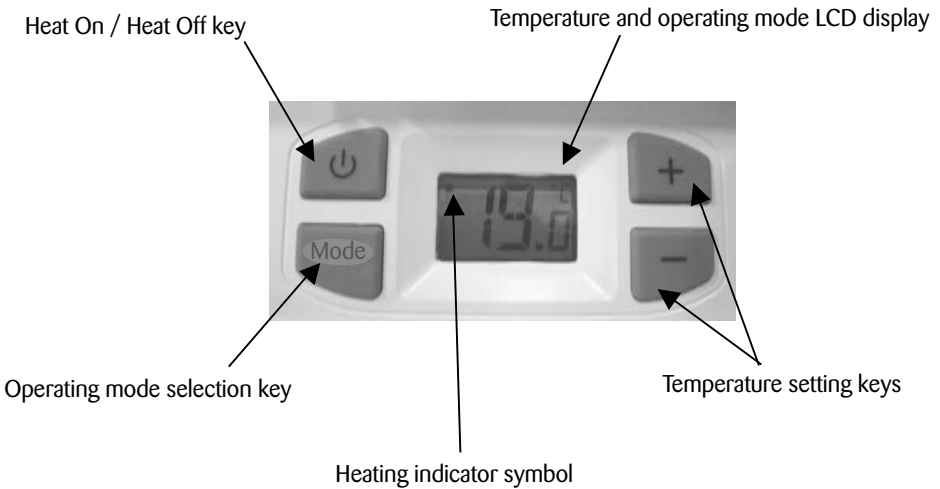


## 5 OPERATING INSTRUCTIONS

### Operation

During the heating season, the CONVECTAIR heater will remain warm and the ambient temperature will remain constant. It is normal in very cold temperatures for the unit to become hot. Caution is advised when young children are present.

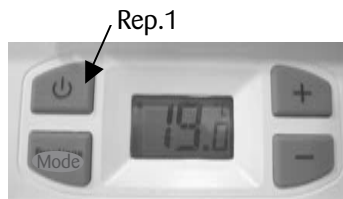
### THE BUILT-IN THERMOSTAT OFFERS 5 MODES :



[no display]	OFF :	no heating.
°C/°F	Comfort:	the heater maintains the set temperature
ECo	Economy setback:	the temperature is lowered to the desired setting without changing the comfort setting (night setback, unused rooms, temporary absence).
Hg	Frost protection :	the temperature is set at 45°F(7°C) for long term absence.
P	Program :	the heater can respond to signals from a Programmer (CONVECTAIR 7392, sold separately).

## Turning the heater ON.

**Note** : When the heater is first connected, it will be in the OFF position, with a blank display. To start, press briefly on the Heating ON/OFF key (rep 1) and the display shows the default comfort set point : 19.0°C (66°F).



## Selection °C or °F display.

The setpoint display is set to °C by default.

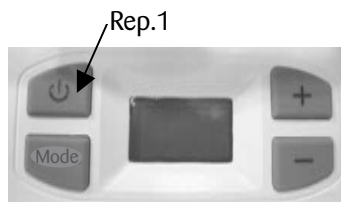
In order to display °F : press the ON/OFF key to turn the heater OFF. Then, press the ON/OFF and + keys at the same time and hold for about 3 seconds. The display will show °F.

Repeat this operation to go back to °C.

## Shutting off heater operation.

To shut off the heating function, press briefly on the Heating ON/OFF key (Rep.1). The display goes blank.

**Note** : the heater still retains all settings in memory. It remains in standby mode.



## Setting the desired temperature.

Turn the heating on. The display shows 19.0°C (or 66.0°F if set in Fahrenheit). Using the + and - keys, you can raise or lower the setting as you wish by 0.5° each time the key is pressed.

This is how you can adjust the thermostat to your desired temperature (see example).

To confirm this comfort level, you may follow the following procedure, preferably in the evening (no sun influence) : close the doors to the room where the heater is located ; wait about one hour to allow for the temperature to stabilize, then adjust the setting up or down (+ or - keys) until the temperature feels right. Allow another hour to verify that the temperature has stabilized at the correct level.



## Comfort mode (.19.0°C - 66.0°F,...).

When the thermostat is in Comfort mode, the heater will maintain the set temperature (19.0°C 66.0°F) without responding to any Programmer instruction.

To change the set temperature, simply press the + or – keys to change the setting in steps of 0.5°.



### Exception to the Comfort mode :

If the heater is connected to a Programming system, it will still respond to a Frost Protection instruction.

### To select the Comfort Mode :

Press the Mode key several times until the set temperature value appears on the display (19.0°C. 66.0°F,...).

## Eco mode.

When the heater is in ECo Mode, it will maintain the temperature at a lower value. This setting is useful to reduce energy consumption at night or when a room is temporarily unused.



### To select the ECo mode :

Press the Mode key briefly until the word ECo appears on the display.

### To display the ECo temperature setting :

While in ECo mode, press the + or – key. The ECo temperature setting will appear on the display (the default setting is 3.5°C or 7°F below the Comfort temperature).



### To change the ECo temperature :

When the display is in Eco mode, you have the option of choosing a set temperature. The Eco temperature can be set at any value between the Frost Protection temperature (7°C or 45°F) and the Comfort temperature minus 0.5°.

Select the ECo mode. Press and maintain the Mode key until the temperature value starts to blink. Release the Mode key and adjust the temperature up or down in 0.5° steps using the + or – keys. Press Mode to confirm the setting.

**Note :** the ECo temperature is relative to the Comfort temperature. If the Comfort setting is changed, the ECo temperature will change automatically to maintain the same difference between the two values.

### Exceptions to the Eco Mode :

if the heater is connected to a Programming system, it will still respond to a Frost Protection instruction.

### Frost Protection setting : HG

In case of longer term absence (24hrs or more), the HG mode will maintain the room temperature at 7°C (45°F). You can reduce your energy consumption while maintaining a minimum safe temperature.



### To select the HG mode :

Press the Mode key until the display shows : HG.

### Locking the heater controls

The control pad can be locked from any Mode selection to prevent tampering.

To lock the control : From any Mode setting, press both the + and the – key at the same time and hold for about 3 seconds. The display will blink to show that the keyboard is locked.

Pressing any key when the keyboard is locked will cause the screen to display «FF» and the heater will not respond.

To unlock the keyboard, repeat the same procedure : press and hold both + and – keys at the same time for about 3 seconds.



## Program Mode : P

This mode allows the heater to respond to instructions from a central Programmer system or from an individual Programmer module. The thermostat display will show what instruction is being received (see summary table below).



### To select the Program Mode :

Press the Mode key briefly until the display shows the temperature setting with the letter P on the top right of the screen (19.0<sup>P</sup> or 66.0<sup>P</sup>, for instance).

The temperature is equal to the Comfort setting. To modify the set temperature, simply press the + or – keys.

### Suggestion :

For better comfort, we recommend that you keep this heater in the Programming Mode.

This function allows your heater to react automatically to instructions sent by a central Programmer System or by an individual Programmer cassette inserted in the receptacle located next to the thermostat.

## SUMMARY TABLE OF PROGRAMMING MODES SENT BY A PROGRAMMER :

PROGRAMMER INSTRUCTION	HEATER DISPLAY	RESULTING MODE
Setback on.	ECO <sup>P</sup>	Temperature is lowered by 3.5°C (7°F) from the comfort setting (or as selected).
Frost Protection on.	HG <sup>P</sup>	Maintains the room temperature at 7°C (45°F).

### Note :

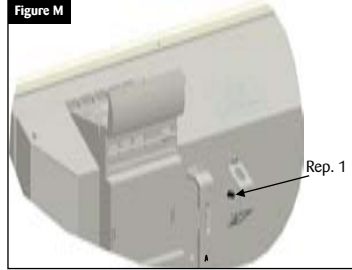
Frost Protection instructions from a Programming system will override all other settings even if a heater is not set in the Program Mode.

In that case, the heater screen will display the appropriate symbol (see table above) but the letter «P» will be flashing.



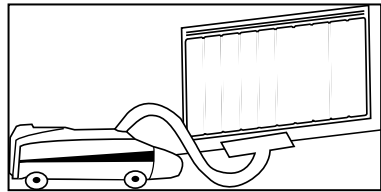
## Temperature limiting control :

This heater is equipped with a manual reset control. In case of a malfunction of the unit (blocked air output or intake, for example) the heater will stop heating automatically. After correcting the malfunction the heater can be reset. To restart the heater, push the button on the upper back panel of the heater.



## 6 MAINTENANCE

To keep your CONVECTAIR unit clean, regular maintenance is suggested. To remove dust, use a soft cloth. To remove a stain, use a damp cloth. For a better performance and a maximum efficiency, it is suggested that dust and lint be regularly removed from the protective grille situated at the base of your CONVECTAIR heater.



**NEVER USE ABRASIVE OR ACETONE-BASED PRODUCTS TO CLEAN THE HEATER AS THIS MAY CAUSE DETERIORATION OF THE EPOXY FINISH.**

**ANY REPAIR ON YOUR CONVECTAIR HEATER SHOULD ONLY BE DONE BY A QUALIFIED TECHNICIAN AFTER DISCONNECTING THE HEATER.**

### Operation and Maintenance TIPS

*Your CONVECTAIR heater will become hot when in use. Caution is advised when young children are present.*

*Do not insert small objects through the front louvers : this could cause electrical short-circuit, fire or damage to the inner components.*

*Any use or modifications not approved by CONVECTAIR may cause electrical short-circuits, fire or injuries to the users.*

*In certain cases, it is possible for yellowing of the grille to occur over time. This is not due to a manufacturing defect. This is caused by surrounding air, which contains smoke or dust, being heated and released through the grille.*

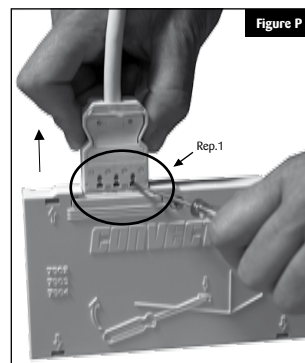
**Prevention :** it is suggested that grilles be frequently cleaned especially with units installed in locations where cigarette smoke is present or in the kitchen. Never use this heater during construction work or other activities that generate a lot of dust.

**Note :** The first time your CONVECTAIR heats, a light smoke could be released. This is normal and should disappear after about 2 to 3 minutes.

## To remove a heater (house cleaning or painting, for instance) :

**You will need** : a small flat-head screwdriver.

- 1 – Shut the power to the heater.
- 2 – Remove the heater from the wall bracket by firmly pressing both locking clips then pulling the heater towards you (page 5, Fig. B).
- 3 – Place the heater on the floor and locate the plug connecting the unit electrical cord to the GoBox on the wall-bracket.
- 4 – Lightly pull the plug away from the wall to locate the locking tab (at the base of the plug, against the wall).
- 5 - Insert the screwdriver into the rightmost hole in the plug and press it against the locking tab (Fig. P)
- 6 - Pull the plug upwards



## To put the heater back :

- 1 - Plug the heater cord back into the GoBox receptacle (Fig.P).
- 2 - Press the plug firmly into position, to lock it.
- 3 - Mount the heater on the wall bracket (**Caution : do not pinch the heater cord**).



### CAUTION :

Do not allow dust, particles, paint or other liquids to fall into the GoBox receptacle.

# 7

## DIAGNOSTICS

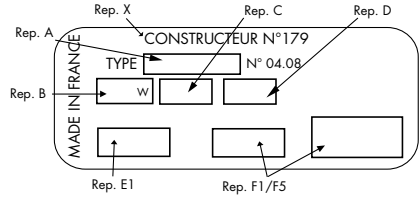
PROBLEM	VERIFICATION	ACTION
<b>No Heat</b>	■ The display screen is blank	■ Put the heater ON (top left key on the control ON/OFF.
	■ The screen remains blank.	■ Check the breakers for the heating circuits.
	■ The display screen is on, the heating indicator is not visible :	■ Check the set temperature : the ambient temperature does not require any heat.
	■ The display screen is on, the heating indicator is still not visible. The heater may have been shut by the Temperature Limiting Control :	■ Clean the inlet and outlet grilles and reset the overheat protection (see the Temperature Limiting Control section).
	■ The heater in ECo or HG mode, or in EcoP, OFFP or HGP mode :	■ Check that the heater is in comfort mode or that it has not been cut by the central Programming system.
<b>The heater does not stop heating</b>	■ Has the temperature setting been changed ?	■ Reset the temperature level.
	■ Is the heater affected by a draft, a nearby unheated space, an open window or an open door ?	■ Correct the source of cold affecting the heater.
<b>Programming seems out of order</b>	■ Are the Programmer (and the receiver module, if any) operating ?	■ Check the Programmer (and receiver if any) – for more details, refer to their instruction manuals. Make sure that the heater is in Program Mode. Remove and reinsert the Programmer (and receiver if any) in its receptacle.
<b>IN ALL OTHER CASES, CONTACT YOUR ELECTRICIAN OR THE NEAREST CONVECTAIR REPAIR CENTER.</b>		

## 8 IDENTIFICATION OF YOUR HEATER

**IMPORTANT : Product information appears on the heater's identification label.**

The identification label is located on the lower right hand side of the heater (same side as the thermostat). It includes :

- The complete model number and its production reference number (rep. A) that must be included in any warranty claim.
- Its capacity in watts (rep.B).
- Its approval standard (rep. E,C,D,F).



## 9 GUARANTEE

- 2 years against all defects
- 5 years on heating element

All CONVECTAIR units are subject to a double warranty: 2 years on all parts and manufacturing defects and 5 years on the heating element itself.

Warranty is applicable from date of purchase by the customer and under certain specific conditions. All details furnished with each unit. Please keep your invoice (purchase and/or installation).

### REPAIR CENTERS :

Contact **CONVECTAIR** for information regarding your closest repair center.  
Toll-free : **1-800-463-6478**

# CONVECTAIR

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