

CONVECTAIR

SAMBA II

7837



Installation & Operating Instructions

(IMPORTANT : To be read and kept by the user)

- FOREWORD -

Dear owner,

Congratulations on the purchase of this premium electric heater. CONVECTAIR develops and produces 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, operation and maintenance instructions detailed in this manual.

WARNING :

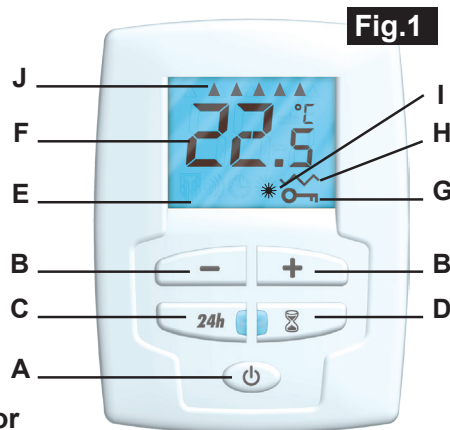
Your heater is already equipped with a precise electronic thermostat. **IT MUST NOT BE CONNECTED TO A WALL THERMOSTAT.**

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- QUICK START GUIDE -

- A- "ON / OFF" key
- B- Temperature setting keys
- C- Auto programming function 24H
- D- Timer function
- E- Backlit LCD screen
- F- Temperature setting display
- G- Locked controls indicator
- H- Heating indicator symbol
- I- Comfort indicator symbol
- J- Accelerated fan-forced heating indicator



Electrical requirements 240 V - 60 Hz :

See page 8.

Installing and connecting the heater :

See pages 5, 6, 7 and 8.

To shut off heater operation:

Press the "⏻" (A) key briefly.

To set the desired temperature :

Using the "+" and "-" (B) keys, you can raise or lower the desired temperature setting (see page 9).

Fast heat :

Turn the heater on.

Press on the "⌚" (D) key, the heater will run full power (2000 W) for the duration set on the timer (adjustable from 5 to 90 minutes) (see page 9).

Troubleshooting :

See page 12.

To contact CONVECTAIR :

See page 12.

1 SPECIFICATIONS

- Your new SAMBA II is a convection and fan-forced recessed heater.
- This heater is equipped with a two-stage electronic thermostat with two heat levels. A first 1000 W of convection regulated with the electronic thermostat and another 2000 W of fast heat on demand with the fan.
- Minimum obstruction and designed to heat your room quietly with a consistent heat, it is a perfect heater for your entrance halls, bathroom or other rooms.
- Your SAMBA II can be used with the optional CONVECTAIR Programmer Module (must be connected through the pilot wire to another CONVECTAIR heater equipped with the Programmer Module), allowing scheduled temperature setbacks in periods of prolonged absence providing the same comfort and more savings.

Model	Volts, cycles	Capacity	Height	Width	Depth	Height (Built-in)	Width (Built-in)	Depth (Built-in)	Weight
7837-C20-BB	240V / 60Hz	1000 W / 2000 W	58 cm (22 ^{7/8} in)	39 cm (15 ^{3/8} in)	5 cm (2 in)	55 cm (21 ^{5/8} in)	33 cm (13 in)	8,5 cm (3 ^{3/8} in)	22 lb (10 Kg)

2 RECOMMENDED SET-UP

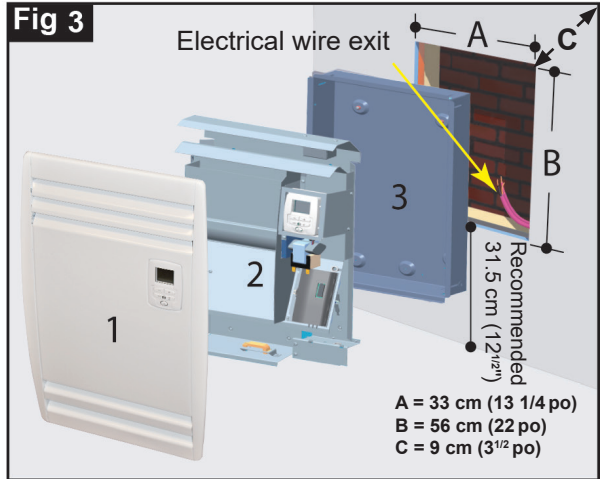
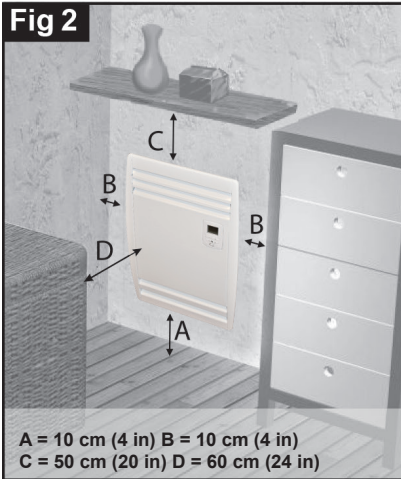
READ CAREFULLY :

These instructions are essential to install and safely use your new SAMBA II.

- Your heater must be installed in accordance with national and local codes and CONVECTAIR recommends an installation by a qualified electrician.
- Your heater must be installed so that the control panel is out of reach from anyone in the bathtub or in the shower. Do not install over a bathtub, spa or any other water source (sink, etc.).
- Do not install the heater behind a door, furniture or others obstacles, or in front of an air exhaust vent. Keep combustible materials such as curtains, away from the heater.
- Your heater is equipped with a heating element that may reach high temperatures. Do not install or operate in the presence of fuels such as gasoline, paint solvents or other flammable products.
- Do not install the heater under an electrical plug.

3 INSTALLATION AND MOUNTING

- Identify where you want to install your SAMBA II, providing sufficient air circulation and maintaining the minimum required clearances around the unit (Fig. 2).



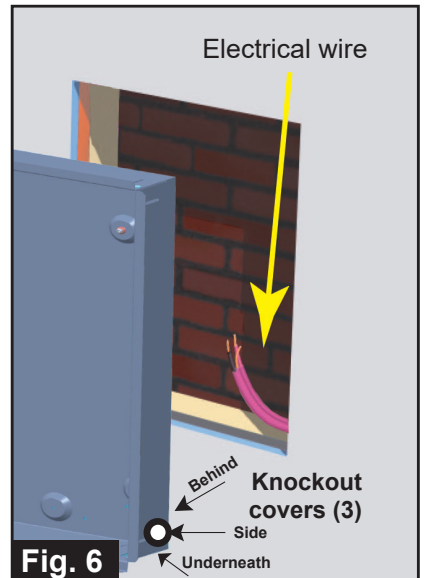
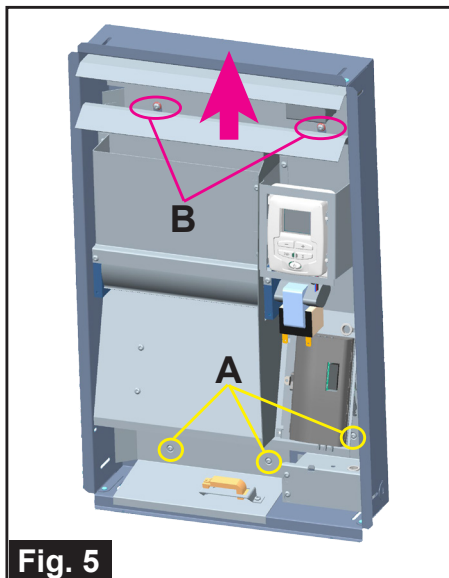
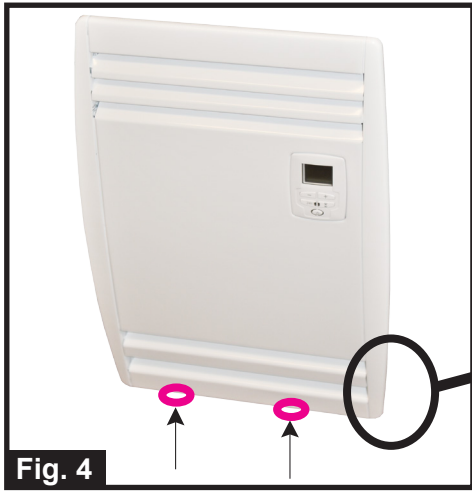
- The SAMBA II heater is a recessed unit whose clearance restrictions must be respected. The heater should be installed **no lower than 10 cm. (4 in)** from the floor. Leave a minimum clearance of 10 cm. (4 in) on each side of the heater, 50 cm. (20 in) on the top and 60 cm. (24 in) in front for a proper air circulation. **Convectair recommends that the heater be installed at 30 cm. (12 in) from the floor.**
- Clear a rectangular opening of 56 cm. (22 in) high (B), 33 cm. (13^{1/4} in) wide (A) and 9 cm. (3^{1/2} in) deep (C) between the wall studs (Fig. 3).
- Make sure that the electrical wires come out of the bottom right corner of the wall opening (Fig. 3).
- The heater can be dismantled in 3 pieces : the front panel (1), the ventilation block and panel controls (2) and the enclosure box (3) (Fig. 3).

CAUTION : PLEASE MAINTAIN THE MINIMUM REQUIRED CLEARANCES (Fig. 2)

Minimum clearances	In front (A)	Sides (B)	Above (C)	Underneath (E)	Recommended height
7837-C20-BB	60 (cm) (24 in)	10 (cm) (4 in)	50 (cm) (20 in)	10 (cm) (4 in)	30 (cm) (12 in)

To dismantle the heater :

- Remove the probe by unscrewing its screw (Fig. 4 A) and the two bottom screws (Fig. 4). Next, take off the front panel.
- Take off the ventilation block by removing the 3 screws (Zone A, Fig. 5) and slide the ventilation block to clear the hooks (Zone B, Fig. 5).
- Before placing the enclosure box inside the wall opening, remove the knockout metallic cover and insert the electrical wires (Fig.6) using an appropriate cable clamp (not included).



- Insert the enclosure box and secure it to the wall with appropriate hardware (Fig. 7 A) (not included).
- Insert and hook the ventilation block and the control panel inside the enclosure box (Zone B, Fig. 5). Secure the ventilation box with 3 screws (Fig.5).
- Connect the electrical wires (Page 8).
- Place and hook the front panel using the enclosure box top crease. Secure the front panel with 2 screws (Fig. 7 B to 7 C).

WARNING : Do not pinch wires when closing the front panel.

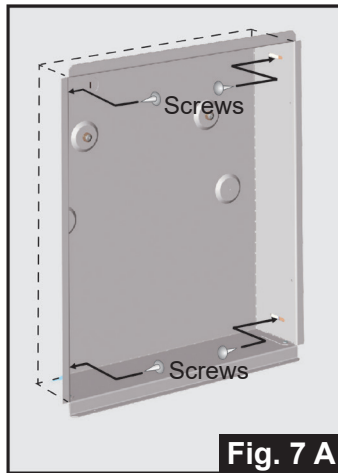


Fig. 7 A

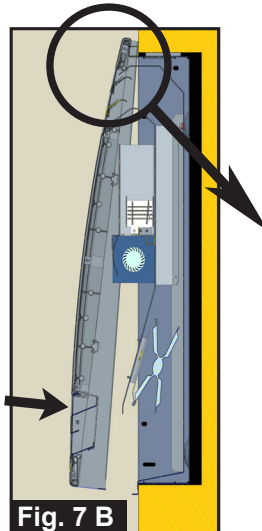


Fig. 7 B

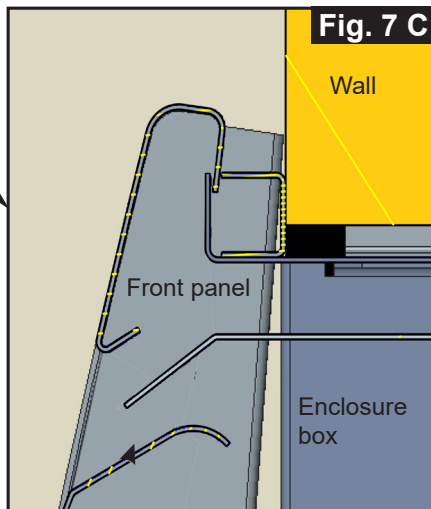


Fig. 7 C

- **WARNING:** To prevent short circuits and electrical shocks turn the power off at the main panel before attempting the installation or making any repairs. If you are using a programmer system, make sure to cut the power off ALL electrical heating circuits of the heaters wired to the pilot wire.



- CONVECTAIR recommends that your heater be installed by a qualified electrician and in accordance with national and local codes.

- This heater must be connected to a 240 Volt, (60 cycles) circuit and with an appropriate breaker.

- The connection of the heater must be done inside the enclosure box on the right side of the control panel. Connect the wires using the wire connectors provided with the heater (Fig. 8).

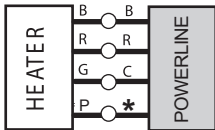
- The first time your CONVECTAIR heats, a light smoke could be released due to the burning of production residues. This is normal and should disappear after about 2 to 3 minutes.

RESPECT COLOR WIRING

WITH the use of pilot wire (PW)

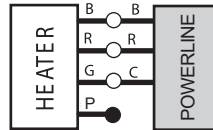
WITHOUT the use of pilot wire (PW)

CANADA



* = Cables 3/12 or FAS
105 18/2 approved 300
volt.

CANADA

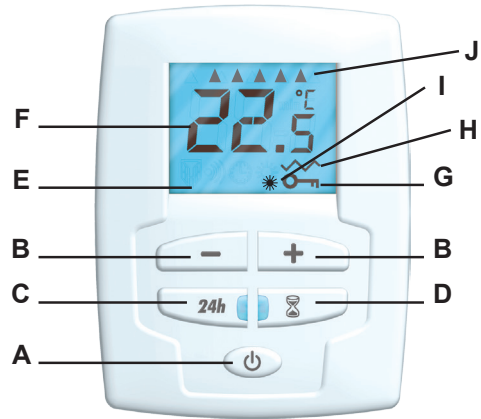


P (PW) = PURPLE R = RED B = BLACK G = GREEN C = COPPER


- You must connect the ground wire of the heater (green wire) with the copper wire.
- The purple wire with the seal at the extremity should not be used for the electrical connection.
- The purple wire is used only if the heater is connected with the CONVECTAIR Programmer system.

5 OPERATING INSTRUCTIONS


- A- "ON / OFF" key
- B- Temperature setting keys
- C- Auto programming function 24H
- D- Timer function
- E- Backlit LCD screen
- F- Temperature setting display
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- To turn the heater ON (A)

Press on the "" key (A). The screen turns on, the indicator light turns green, your device is now running.


- To shut off heater operation (A)

Press on the "" key (A) on the control panel. The indicator light turns orange, the screen turns off, the heater is in standby mode.

- To set the desired temperature

Using the "+" and "-" keys (B), you can raise or lower the desired setting temperature as you wish by gaps of 1°F (0.5°C) each time the key is pressed, between 45°F and 82°F (7°C and 28°C).



- To change display in °C or °F

Place your heater on standby. Simultaneously press "" (A) and "+" (B) keys and hold for 3 seconds to switch display in °C (Celsius) or °F (Fahrenheit).


- The «Timer» function (D)

This function allows an immediate and additional 1000 W of heat during a determined period of time (from 5 to 90 minutes). You are therefore using your device at its full unregulated power of 2000 W.

- To use the «Timer » function (D)



Pressing the «  » (D) button triggers the «Timer » function for a period of 15 minutes (default). The red indicator light will turn on. Successive presses on «-» and «+» (B) allow to modify the duration between 5 and 90 minutes in steps of 5 minutes. Hold the «  » (D) key for 3 seconds to select the new default duration.

- To stop the « Timer » function (D)



The «Timer » function stops automatically once the time has elapsed. Otherwise it is possible to stop the timer by simply pressing on the «  » (D) to stop the function.

- To lock the controls (G)

This function locks any manipulation of the thermostat to prevent tampering, particularly by children. Only the «Timer » function can be activated.

Press simultaneously for 3 seconds the «  » (D) and «+» (B) keys to activate this function. The display shows «  » (G) indicating the control panel is locked.

- To unlock the controls (G)

To unlock the control panel, press again simultaneously for 3 seconds the «  » (D) and «+» (B) keys. The lock symbol «  » (G) is no longer displayed.

- To activate and set the « Auto Cycle 24H » (C)

You enter every day at the same time in your bathroom and you like to have this feeling of warmth. The « Auto Cycle 24H » is handled automatically by setting the «Chrono» time.

Once the “Auto Cycle 24 H” function is activated, the device will do a preheat of 15 minutes on regulated power (1000 W), then another 15 minutes on full power before “Chrono” time. At this time, it activates the timer for the duration saved as default.

- To set the « Chrono » time (C)

The « Chrono » time is the time at which you want the bathroom to be warm every day.


This operation should be done once, **at the desired time**. The « Chrono » time will be kept and repeated every day. To program the “Chrono” time, press for 3 seconds on the “24 H” key (C). This causes a slow blink of the light indicator.

Press briefly on the “24 H” key (C) to stop the light indicator blinking and confirm the setting.

Note: If no “Chrono” time is set when the command is activated, the “24 H” key (C) indicator’s light flashes, indicating that the “Auto Cycle 24 H” cannot be activated.

IN CASE OF POWER FAILURE, ALL SETTINGS WILL BE LOST.

- Automatic fan-forced booster heating mode (J)

A reduction in the ambient temperature of about 5°F (3°C) with regard to the desired temperature engages the automatic fan-forced booster mode. A scrolling of 5 pictograms () (J) at the top of the screen of the control panel allows to know that this mode is activated. As soon as the rise of temperature is sufficient, the thermostat returns in normal mode.

6 OVERHEAT CONTROL

This heater is equipped with separate overheat controls for the convection element and for the fan-forced system. In case of a malfunction of the unit (blocked air output or intake), the heater will stop heating automatically. After correcting the malfunction the heater can be reset.

To reset the heater :

- **Convection element:** Check that the front panel, top and bottom of the heater are free of obstruction. Once the obstruction is removed and the heater cools down, the overheat control will reset automatically.

- **Fan-forced system:** Verify that the air inlet and outlet are not obstructed. After 5 minutes, put the heater back on by resetting the panel's breaker.

7 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 maximum efficiency, it is suggested that dust and lint be regularly removed from the protective grill situated in front of your SAMBA II.

NEVER USE ABRASIVE OR ACETONE-BASED PRODUCTS TO CLEAN YOUR HEATER AS THIS MAY DETERIORATE THE EPOXY FINISH.

ANY REPAIR ON YOUR CONVECTAIR HEATER SHOULD ONLY BE DONE BY A QUALIFIED TECHNICIAN, AND ONLY AFTER HEATER HAS BEEN DISCONNECTED.

Recommendations and advice

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

Do not insert small objects in the heater : this could cause an 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 surface to occur over time. This is not due to a manufacturing defect. This is caused by surrounding air, which may contain smoke or dust, being heated and circulated through the heater. This is particularly the case with white heaters and may translate in an important coloring of the unit.

Prevention : it is suggested that surfaces be frequently cleaned especially with units installed in bathrooms, kitchens, locations where cigarette smoke is present, rooms with a fireplace or wood stove. Never use this heater during construction work or other activities that generate a lot of dust.

8 TROUBLESHOOTING

Before calling CONVECTAIR, please go through these simple checks :

- 1- Open and reset the breaker in the main panel.
- 2- Press on the "ON /OFF" (A) key to turn on your heater.
- 3- Activate the timer function (D).

If the light is still off, and no heat is generated, call CONVECTAIR's customer service department at 1 800 463-6478 or contact the nearest Service Center.

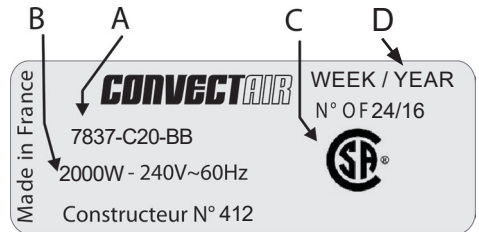
9 IDENTIFICATION OF YOUR HEATER

IMPORTANT: PRODUCT INFORMATION APPEARS ON THE HEATER'S IDENTIFICATION LABEL.

The identification label is located on the inside of the heater (visible through the inferior air intake on the front panel).

It includes :

- The complete model number, capacity, colour (A) and its production reference number (D) that must be included in any warranty claim.
- Capacity (B).
- Standard certification (C).



10 WARRANTY INFORMATION

2 years against all defects / 5 years on heating element.

All CONVECTAIR heaters are subjects to a double warranty.

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

To register your product warranty you may fill out the form available on our website OR by fill out the paper form included with the heater.

Unauthorized modification of the heater will contravene with the product warranty.

SERVICE CENTERS :

Contact CONVECTAIR to find the closest service center:

- Toll-free : 1 800 463-6478
- Website : www.convectair.com

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