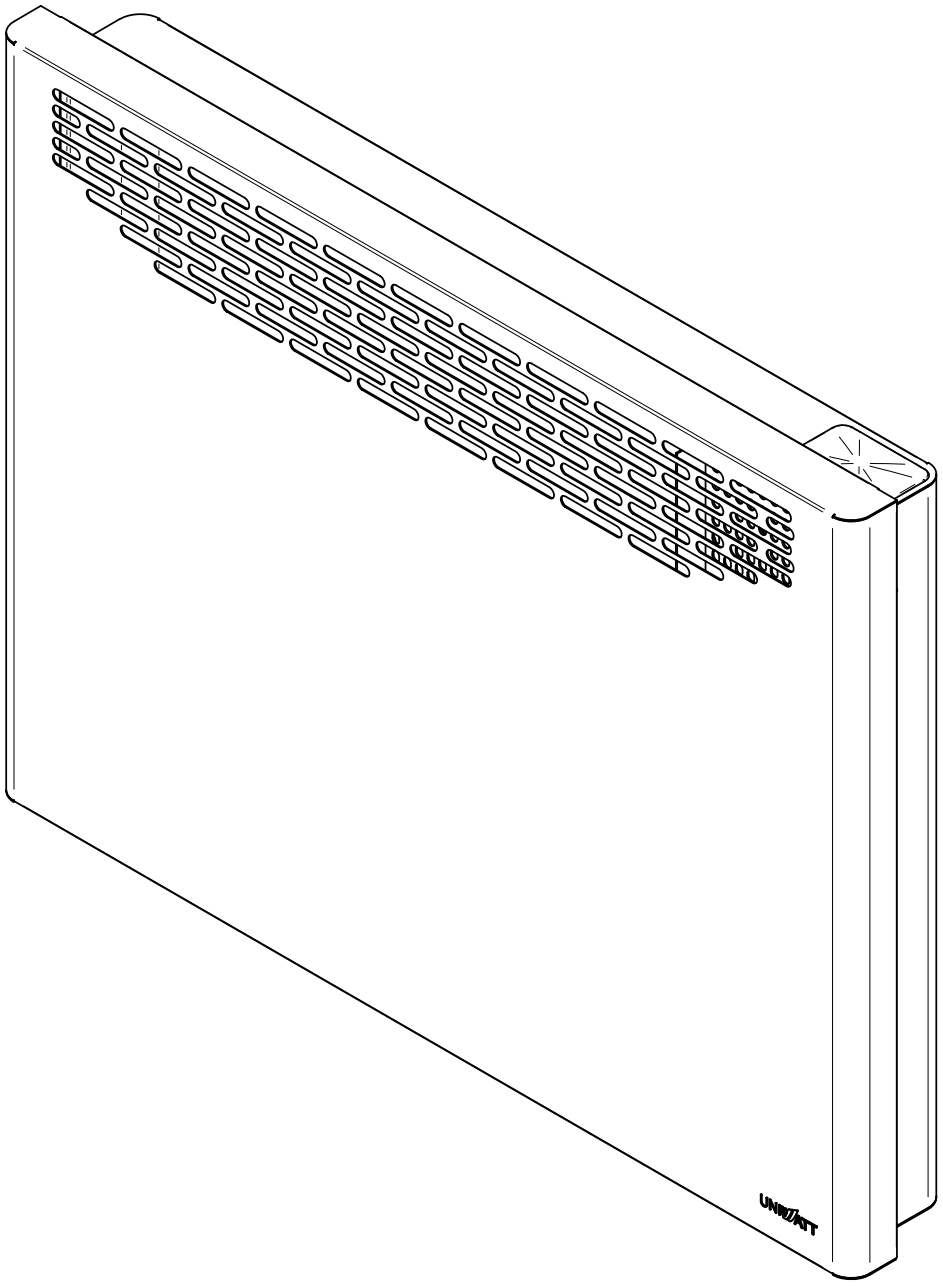
UNIWATT™

# QUIET CONVECTOR

**UHC**

REPLACEMENT COMPONENT LIST INCLUDED



USER'S GUIDE

This unit complies with CSA standards

# IMPORTANT INSTRUCTIONS

## WARNING

Before installing and operating this product, the user and/or installer must read, understand and follow these instructions and keep them handy for future reference. If these instructions are not followed, the warranty will be considered null and void and the manufacturer deems no further responsibility for this product.

This product must be installed by a qualified person and connected by a **certified electrician**, according to the **electrical and building codes** effective in your region.

The following instructions must be adhered to in order to avoid personal injuries or property damages, serious injuries and potentially fatal electric shocks.

Protect the heating unit with the appropriate circuit breaker or fuse, in accordance with the nameplate.

Make sure the line voltage (volt) is consistent with that indicated on the unit's nameplate.

Switch off the power at the circuit breaker/fuse before installing, repairing and cleaning the unit.

Make sure the unit is appropriate for the intended use (if needed, refer to the product catalog or a representative). Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons. Do not use outdoors.

**RECOMMENDED HEATING CAPACITY: 1.25 W/cubic foot (0.03 m³)**

It corresponds to **10 W/square foot (0.09 m²)** based on a standard ceiling height of **8 feet (2.44 m)**. The recommended capacity is usually sufficient for normal heating needs. Please note that the insulation quality of walls and windows are some of the factors that influence heat losses, which modify the required capacity to heat a room. If needed, refer to a specialist who will be able to calculate these heat losses and optimize the required capacity or consult the "Online heating calculation" section of the Stelpro website (residential buildings). To heat a large room and to increase your comfort, it is recommended to install several units instead of one. For example, 2 X 1000 W rather than 1 X 2000 W.

Do not install the unit where objects or pieces of furniture could be heat damaged.

If the unit's capacity is insufficient for the size of the room, it will be in operation continuously, and may become defective earlier and turn yellow.

**Respect distances and positions** indicated in the installation section.

If the installer or user modifies the unit, they will be held responsible for any damage resulting from this modification, and the CSA certification could be void.

This unit must not come into contact with a water source and must be protected from splashes (e.g. a wet mop). Do not use it if any part has been immersed. Moreover, do not turn it on or off when standing in water or if your hands are wet.

When mounting the unit, make sure that the anchorage used can support the total weight of the unit with the mounting brackets.

When cutting or drilling into a wall, do not damage electrical wiring and other hidden utilities.

When starting up the unit for the first time or after a long period, it is normal that it produces some temporary odours and whitish smoke.

Because this unit is hot when in use, it may pose risks even in normal operation. Therefore, be careful and responsible when using it. To avoid burns, do not let bare skin touch hot surfaces. Let the unit cool down for a few minutes before handling it (it stays warm for some time after shut-down). Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.

The bottom of this unit must be installed at least **4 inches (10.2 cm)** from the floor and **6 inches (15.2 cm)** from any adjacent surfaces. However, make sure objects or pieces of furniture such as, but not limited to, blankets, towels, beds, laundry baskets, clothing, papers, etc. do not come into contact with the unit and keep them at least **12 inches (30.5 cm)** from the unit since they are more flammable than walls and floors. Failure to comply with this warning could lead to a fire. Some materials are more heat-sensitive than others, so make sure those near the unit can withstand heat.

Do not install on a wall behind a door.

**Never block air vents** (with objects or other items). You risk damaging the heater and the obstruction could lead to electric shock or overheating, which could result in a fire.

Do not insert or allow foreign objects to enter any air vent as this may cause electric shocks, a fire or damages to the unit.

This unit has hot and arcing or sparking parts inside. It is not designed to be used or stored in wet areas or areas containing flammable liquids, combustible materials or corrosive, abrasive, chemical, explosive and flammable substances such as, but not limited to, gasoline, paint, chlorine, sawdust and cleaning products.

Some areas are dustier than others. Thus, it is the user's responsibility to evaluate if the unit must be cleaned based on the amount of dirt accumulated on and inside air vents. Accumulated dirt can lead to a component malfunction or give a yellowish colour to unit. Failure to install and maintain unit in accordance with these instructions poses a fire hasard.

Thermal protection activation indicates that the unit has been subjected to abnormal operating conditions. If the thermal protection remains activated or activates and deactivates repeatedly, it is recommended that a qualified electrician or a certified repair centre examine the unit in order to make sure it is not damaged. (Refer to the limited warranty.)

Before unplugging the unit, all controls must be in the "OFF" position and the current from the main breaker panel should be cut. (The general switch may be used also, if included.)

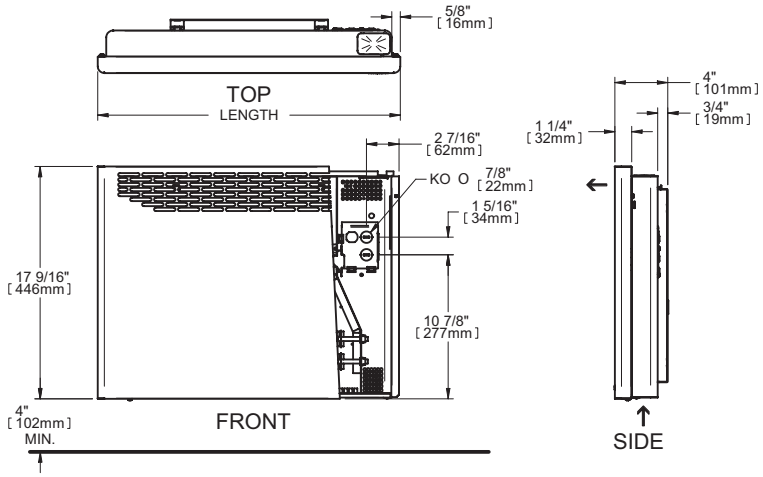
If the unit is damaged or defective, discontinue use, cut off power supply at circuit breaker and contact a certified electrician or certified repair centre. (Refer to the limited warranty)

## SAVE THESE INSTRUCTIONS

**Note:** When a part of the product specification must be changed to improve operability or other functions, priority is given to the product specification itself. In such instances, the instruction manual may not entirely match all the functions of the actual product. Therefore, the actual product and packaging, as well as the name and illustration, may differ from the manual.

# TECHNICAL DRAWINGS AND SPECIFICATIONS

## TECHNICAL DRAWINGS




## SPECIFICATIONS

| BUILT-IN THERMOSTAT | WITHOUT THERMOSTAT | POWER | VOLTAGE | LENGTH | | WEIGHT | |
|---|---|---|---|---|---|---|---|
| CODE | CODE | WATTS | VOLTS | MM | IN. | KG | LB |
| UHC0502W | UHC0502WCW | 500 | 240 | 440 | 17 5/16 | 5.1 | 11.2 |
| UHC1002W | UHC1002WCW | 1000 | 240 | 581 | 22 7/8 | 6.0 | 13.3 |
| UHC1502W | UHC1502WCW | 1500 | 240 | 727 | 28 5/8 | 7.1 | 15.7 |
| UHC2002W | UHC2002WCW | 2000 | 240 | 889 | 35 | 8.6 | 18.9 |

White only / 240 VOLTS only

### MODEL WITH 120 V PLUG (RESIDENTIAL OUTLET)

| BUILT-IN THERMOSTAT | POWER | VOLTAGE | LENGTH | | WEIGHT | |
|---|---|---|---|---|---|---|
| CODE | WATTS | VOLTS | MM | IN. | KG | LB |
| UHC1501PW | 1500 | 120 | 727 | 28 5/8 | 7.1 | 15.7 |

## INSTALLATION

**CUT OFF POWER SUPPLY AT CIRCUIT BREAKER/FUSE BEFORE PROCEEDING TO THE INSTALLATION.**

- The unit should be installed at least 4 in (10.2 cm) from the floor and 6 in (15 cm) from adjacent walls.
- Before operating the unit, make sure that both the air inlet (bottom) and air outlet (front) are free from obstruction.

### INSTALLATION OF THE WALL RACK

1. Remove the unit from the wall rack's hooks.
2. Put the bracket on the floor, on the wall where the appliance is installed and draw a temporary line under the horizontal line of the bracket using a pencil. (FIG. 1)
3. Align bottom of wall bracket with the temporary line drawn in the previous step. (FIG. 2)
4. Make marks with a pencil to identify the four areas where you will screw the bracket.
5. Secure the bracket to the wall making sure it is level. When drilling the wall, make sure not to damage electrical wiring and other hidden utilities.

**N.B. The wall where you install the device must be straight so that the bracket is perfectly level, without any pressure. It is very important to follow this directive to prevent damaging the bracket during the installation. This could cause malfunction of the interlock system.**

### HANGING THE UNIT ON THE WALL BRACKET

1. Insert the lower hooks of the wall bracket in the device. (FIG. 3)
2. Tilt the top of the unit and snap it. (FIG. 4)
3. Push the unit to secure it. (FIG. 5)
4. The unit must be mounted at least 4 inches (10.2 cm) from the floor. (FIG. 6)

### REMOVING THE UNIT FROM THE WALL RACK

1. Using a screwdriver, press on each clip. (FIG. 7)
2. Pull the upper part of the unit toward you to disengage the hooks.
3. Pull the unit off the lower hooks

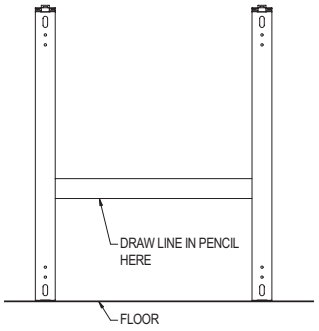


FIG. 1

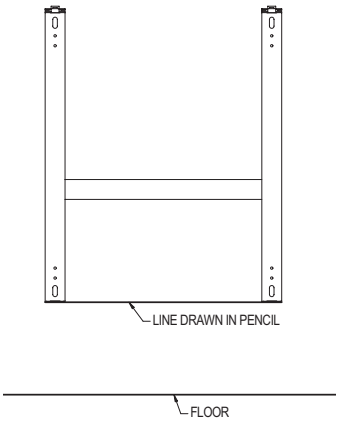


FIG. 2

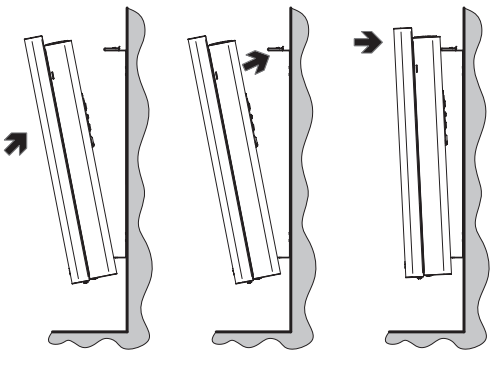


FIG. 3


FIG. 4


FIG. 5

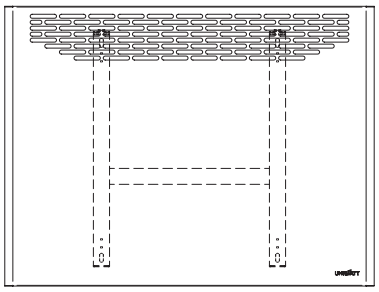


FIG. 6

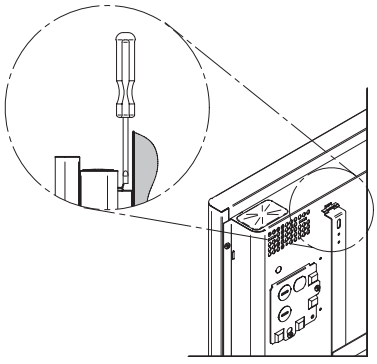


FIG. 7

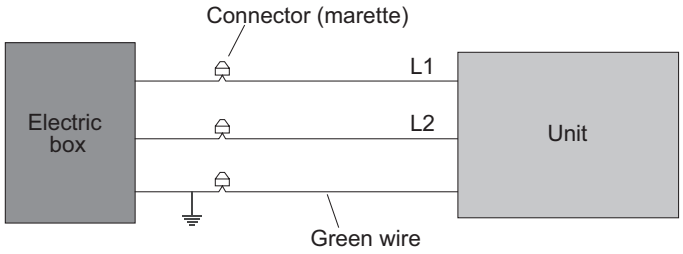
# ELECTRICAL CONNECTION & OPERATION

## ELECTRICAL CONNECTION

### STANDARD MODELS (FIXED CONNECTION)

**THIS PRODUCT MUST BE CONNECTED BY A QUALIFIED ELECTRICIAN, ACCORDING TO THE ELECTRICAL AND BUILDING CODES EFFECTIVE IN YOUR REGION.**

This unit must be connected by a certified electrician. Connect the bare wire (ground) to the green wire. Connect wires from the electric box to the unit's supply leads.




### MODELS WITH 120 V PLUG (RESIDENTIAL OUTLET)

**THIS UNIT IS EQUIPPED WITH A THREE-WIRE GROUNDING TYPE AC PLUG:**

- For safety reasons, the plug can only be inserted into an outlet with grounding. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable receptacle installed. Do not condemn the ground prong of the plug.
- **This heater must be plugged into a dedicated 120 V circuit. The addition of other electrical appliances on this circuit may trip the circuit breaker.**
- Plug the cord of the heater directly into the wall outlet (do not use an extension cord).

## OPERATION

### WITH A BUILT-IN ELECTRONIC THERMOSTAT

#### HOW TO SET THE TEMPERATURE

You can change the temperature by increasing (top button) or decreasing (bottom button) the set point. The temperature set point will increase or decrease by increments of 0.5 °C (or 1 °F) each time you press down a button. If you hold down the button, the temperature will quickly scroll through, allowing a faster and more efficient setting. Once the temperature is set, release the button.

### PRECISE ELECTRONIC CONTROL

A chrono-proportional electronic thermostat controls this unit with a high degree of accuracy in order to minimize temperature differences and increase your comfort level. It allows very stable temperature and ensures uniform comfort. It also keeps the casing at a low temperature, making it more secure.

The chrono-proportional electronic thermostat entirely regulates the unit by increasing or decreasing the heating cycle percentage according to the selected temperature. Please note that the unit becomes warmer if the heating demand is higher and that it remains mildly warm when the demand is lower.

**N.B. If the unit is set on high or if it is not functioning at all, the temperature gage of the thermostat sensor cannot take a precise reading. However, the reading becomes extremely precise once the heating level has stabilized. Therefore, uniform convection increases the precision of the thermostat.**

In order to obtain a precise and optimal ambient temperature reading, the unit must operate on a regular basis, i.e. without significant temperature variation for at least an hour. (This amount of time increases if a temperature change of more than 4 degrees is requested. Add approximately 15 minutes for every degree above 4).

#### ELECTRONIC WALL THERMOSTAT CONTROL

An electronic wall thermostat equipped with a proportional tension variation that maintains a precise temperature is preferable thus increasing your comfort level.

# OPERATION, MAINTENANCE & TROUBLESHOOTING

## ANTIFREEZE PROTECTION ✻

In order to protect your home against freezing and limit energy consumption during long absences, put the thermostat on ANTIFREEZE mode. To enter this mode, lower the day temperature to between 3°C and 5°C. A Snowflake icon ( ) is displayed. This icon indicates that the economic and secure ANTIFREEZE mode is on.

## THE “NO HEAT” MODE

To turn the heat off, you must lower the temperature to less than 3°C. The inscription “- -” is displayed (note that there is still electrical current to the unit, meaning that there is a risk of electrical shock).

## CELSIUS / FAHRENHEIT MODE

To switch the display from Celsius to Fahrenheit and vice versa, follow the steps listed here:

1. Press and hold the two buttons at the same time.
2. After 3 seconds, °C or °F will flash.
3. Release the buttons to make the change. If the thermostat was in °C, it will now be in°F, and vice versa.

## MAINTENANCE

**Cut off power supply at circuit breaker/fuse and wait for the unit to cool down before cleaning.** Use a soft rag for dusting. When cleaning, use only a damp rag and non-abrasive dish soap. If you use a cleaning product, always wipe the product off properly to avoid the discoloration of the unit. Do not use abrasive or chemical cleaners because they may damage the finish. If the unit is used in a very dusty location, use a vacuum brush to remove dust and other foreign objects from the grilles. Note that cigarette smoke could yellow the discharge grill and that the best way to prevent it is to clean the unit on a regular basis.

**N.B. There is an electrical current linked to the unit even if the thermostat is set to off. This means that there is a risk of electric shock as long as the unit is energized.**

**Do not use cleaning products identified with these symbols:**

## TROUBLESHOOTING

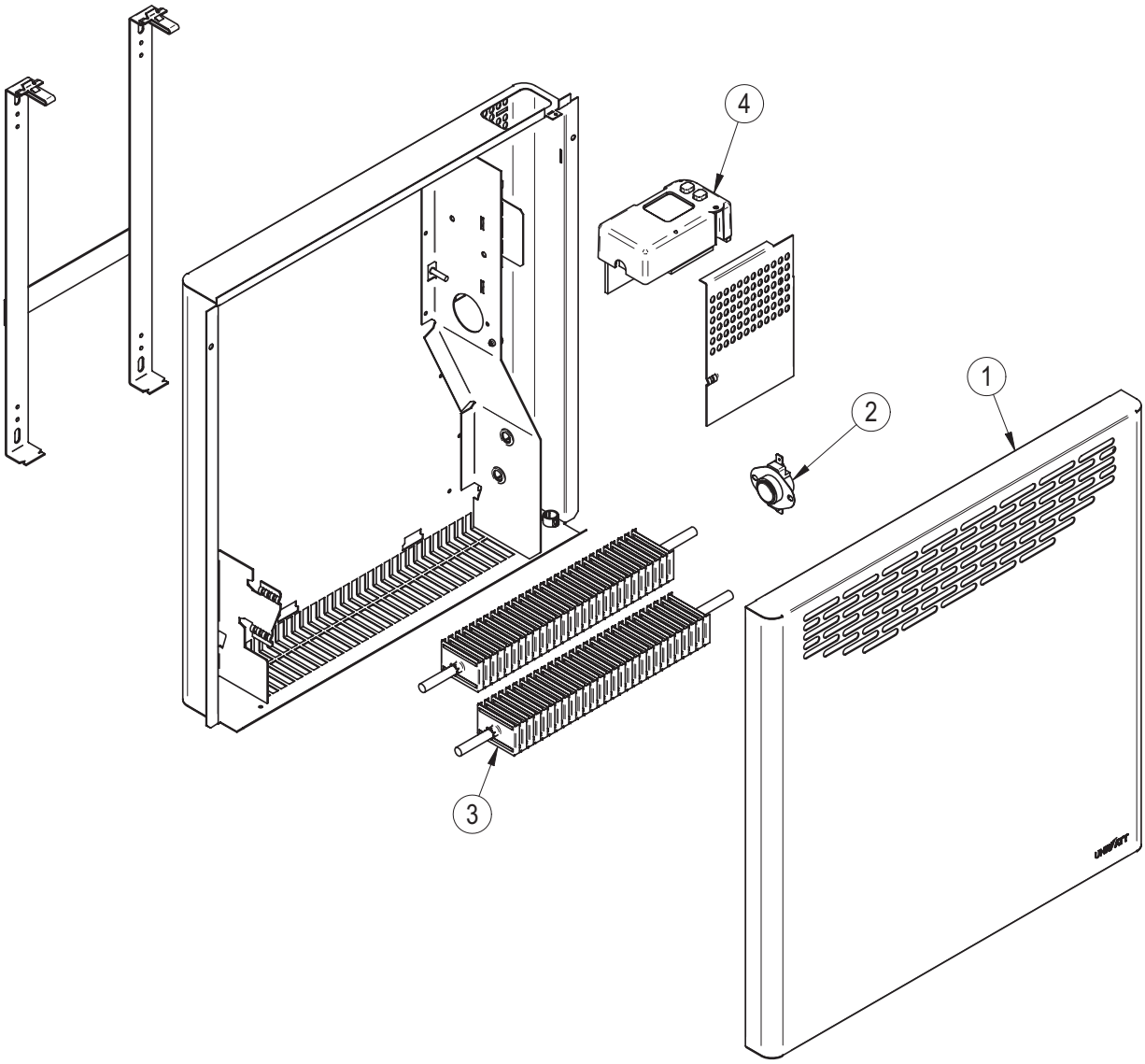
| PROBLEM | DEFECTIVE PART OR PART TO CHECK |
|---|---|
| The unit does not work | • Open circuit breaker or fuse<br>• Thermal protection activated<br>• Faulty connections |
| The unit runs continuously | • Defective thermostat or wrong thermostat setting |
| The enclosure is extremely hot | • Defective thermal protection<br>• Blocked air vents |
| The desired room temperature cannot be reached | • One or more defective elements<br>• Defective thermostat or wrong thermosat setting<br>• Voltage lower than indicated on the nameplate<br>• Heat losses greater than the unit’s capacity |
| Overheating | • Defective thermostat or wrong thermostat setting |
| The unit cycles under control of the thermal protection (overheat indicator) | • Blocked air vents |
| The heater is on and the breaker trips | • Faulty connections<br>• Voltage higher than that indicated on the nameplate |

**N.B. If you do not solve the problem after checking these points, cut off the power supply at the main electrical panel and contact our customer service (please refer to the LIMITED WARRANTY to obtain the phone numbers).**

# LIST OF REPLACEMENT COMPONENTS

| REF. # | PART # | DESCRIPTION |
|---|---|---|
| 1 | M-UHC0504Z | FRONT COVER UHC 500 W - white |
| 1 | M-UHC1004Z | FRONT COVER UHC 1000 W - white |
| 1 | M-UHC1504Z | FRONT COVER UHC 1500 W - white |
| 1 | M-UHC2004Z | FRONT COVER UHC 2000 W - white |
| 2 | PROT-006 | THERMAL PROTECTION 500 W |
| 2 | PROT-100 | LINEAR THERMAL PROTECTION 1000 W |
| 2 | PROT-005 | THERMAL PROTECTION 1500 W |
| 2 | PROT-007 | THERMAL PROTECTION 2000 W |
| 3 | EUC0250-05-1 | ELEMENT 250 W - 120 V |
| 3 | EUC0250-05-3 | ELEMENT 250 W - 174 V |
| 3 | EUC0250-05-7 | ELEMENT 250 W - 139 V |
| 3 | EUC0250-05-8 | ELEMENT 250 W - 104 V |
| 3 | EUC0500-10-1 | ELEMENT 500 W - 120 V |
| 3 | EUC0500-10-3 | ELEMENT 500 W - 174 V |
| 3 | EUC0500-10-5 | ELEMENT 500 W - 240 V |
| 3 | EUC0500-10-6 | ELEMENT 500 W - 300 V |

| REF. # | PART # | DESCRIPTION |
|---|---|---|
| 3 | EUC0500-10-7 | ELEMENT 500 W - 139 V |
| 3 | EUC0500-10-8 | ELEMENT 500 W - 104 V |
| 3 | EUC0750-15-1 | ELEMENT 750 W - 120 V |
| 3 | EUC0750-15-3 | ELEMENT 750 W - 174 V |
| 3 | EUC0750-15-5 | ELEMENT 750 W - 240 V |
| 3 | EUC0750-15-6 | ELEMENT 750 W - 300 V |
| 3 | EUC0750-15-7 | ELEMENT 750 W - 139 V |
| 3 | EUC0750-15-8 | ELEMENT 750 W - 104 V |
| 3 | EUC1000-20-1 | ELEMENT 1000 W - 120 V |
| 3 | EUC1000-20-3 | ELEMENT 1000 W - 174 V |
| 3 | EUC1000-20-5 | ELEMENT 1000 W - 240 V |
| 3 | EUC1000-20-6 | ELEMENT 1000 W - 300 V |
| 3 | EUC1000-20-7 | ELEMENT 1000 W - 139 V |
| 3 | EUC1000-20-8 | ELEMENT 1000 W - 104 V |
| 4 (option) | ST-217 | ELECTRONIC THERMOSTAT |
| - (option) | CD-013 | POWER CORD 120 V/15 A |



This limited warranty is offered by Stelpro Design inc. (“Stelpro”) and applies to the following product made by Stelpro: UNIWATT UHC model. **Please read this limited warranty carefully**. Subject to the terms of this warranty, Stelpro warrants its products and their components against defects in workmanship and/or materials for the following periods from the date of purchase: **2 years**. This warranty applies only to the original purchaser; it is non-transferable and cannot be extended.

## CLAIM PROCEDURE

If at any time during the warranty period the unit becomes defective, you must cut off the power supply at the main electrical panel and contact 1) your installer or distributor, 2) your service center or 3) Stelpro’s customer service department. In all cases, you must have a **copy of the invoice** and provide the **information written on the product nameplate**. Stelpro reserves the right to examine or to ask one of its representatives to examine the product itself or any part of it before honoring the warranty. Stelpro reserves the right to replace the entire unit, refund its purchase price or repair a defective part. Please note that repairs made within the warranty period must be authorized in advance in writing by Stelpro and carried out by persons authorized by Stelpro.

Before returning a product to Stelpro, you must have a Stelpro authorization number (RMA). To obtain it, call the customer service department at: **1-800-363-3414** (electricians and distributors - French), **1-800-343-1022** (electricians and distributors - English), or **1-866-766-6020** (consumers). The authorization number must be clearly written on the parcel or it will be refused.

## CONDITIONS, EXCLUSIONS AND DISCLAIMER OF LIABILITY

This warranty is exclusive and in lieu of all other representations and warranties (except of title), expressed or implied, and Stelpro expressly disclaims and excludes any implied warranty of merchantability or implied warranty of fitness for a particular purpose.

Stelpro’s liability with respect to products is limited as provided above. Stelpro shall not be subject to any other obligations or liabilities whatsoever, whether based on contract, tort or other theories of law, with respect to goods or services furnished by it, or any undertakings, acts or omissions relating thereto. Without limiting the generality of the foregoing, Stelpro expressly disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits, loss of use of equipment, cost of capital, cost of substitute products, facilities or services, shutdowns, slowdowns, or for other types of economic loss or for claims of a dealer’s customers or any third party for such damages. Stelpro specifically disclaims all consequential, incidental and contingent damages whatsoever.

This warranty does not cover any damages or failures resulting from: 1) a faulty installation or improper storage; 2) an abusive or abnormal use, lack of maintenance, improper maintenance (other than that prescribed by Stelpro) or a use other than that for which the unit was designed; 3) a natural disaster or an event out of Stelpro’s control, including, but not limited to, hurricanes, tornadoes, earthquakes, terrorist attacks, wars, overvoltage, flooding, water damages, etc. This warranty does not cover any accidental or intentional losses or damages, nor does it cover damages caused by negligence of the user or owner of the product. Moreover, it does not cover the cost of disconnection, transport, and installation.

The warranty is limited to the repair or the replacement of the unit or the refund of its purchase price, at the **discretion of Stelpro**. Any parts replaced or repaired within the warranty period with the written authorization of Stelpro will be warranted for the remainder of the original warranty period. This warranty will be considered null and void and Stelpro will have the right to refuse any claims if **products have been altered** without the written authorization of Stelpro and if the nameplate numbers have been removed or modified. This warranty does not cover scratches, dents, corrosion or discoloration caused by excessive heat, chemical cleaning products and abrasive agents. It does not cover any damage that occurred during the shipping.

Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages and some of them do not allow limitations on how long an implied warranty lasts, so these exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state or from province to province.

WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED WARRANTY LIMITED