



## OPERATING MANUAL

### INFRARED RADIANT HEATER: TORRID SERIES

**T4000/8r & T4000/12r**  
**220 VOLT**

**T4000/8r - 34 inches**



**T4000/12r - 50 inches**



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**Thank you for choosing RADtec heating products.  
This product operates in compliance with the information laid out in this manual.**

**\*\*\*Attention! Before using this product, please read the manual carefully\*\*\***

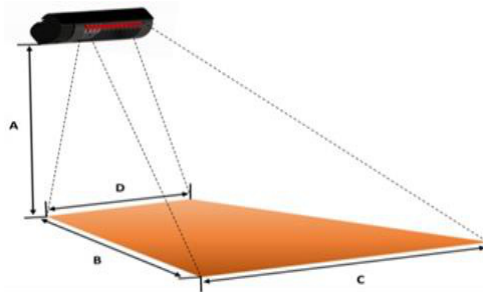
**You have purchased the following model: RADtec Torrid Series - Infrared Radiant Heater**

**RADtec T4000/8r**

**RADtec T4000/12r**

This model heater operates by projecting a "Radiant Footprint" over your living space. Radiant energy is transferred to people and objects within this projected footprint via radiant energy – similar to how the sun warms you up when you stand in sunlight. This method of heating is very popular today because infrared heat energy transfer is hyper efficient. Remember, warm or hot air is less dense than surrounding colder air and rises due to thermal convection. Infrared heat is not lost to air currents because infrared heaters do not heat the air. Infrared energy does not "excite" air molecules, instead bypassing them and warming whatever surface this energy hits thereafter.

Please reference the graphic below to better understand how this footprint projects from the heater you have purchased.



**Description of RADtec Torrid Series Heaters:**

*RADtec infrared heaters are designed for various applications, both outdoors and indoors.  
Example: terraces, patios, verandas, gazebos, hangars, workshops, etc.*

*RADtec Torrid series heaters have a stylish compact design. Applications can include both vertical(wall) and horizontal(ceiling) installations. It is also possible to place this heater on a mobile stand (not included, purchased separately).*

*RADtec state-of-the-art infrared heaters use high efficiency heating elements. 95% or more of the electrical power consumed is converted into a heat flux. Infrared heating achieves this efficiency by heating objects in the area without having to heat the surrounding air.*

**What Does Heat Flux Mean?**

*Heat flux is thermal energy transferred from one substance to another per unit time and area denoted by temperature change measured in watts per feet/meter squared units. In simple terms, it is the heat transferred per unit area. To obtain this value, one must obtain the change in temperature, the thermal conductivity of the medium of conduction and the direction of the heat transfer. Accurate figures are obtained when the system is in a steady state condition.*

<i>A , B , C , D : feet(ft) S: square feet( ft2)</i>	<i>T4000/8r</i>	<i>T4000/12r</i>
<i>A (Min-Max)</i>	<i>6-10</i>	<i>6-10</i>
<i>B (Min-Max)</i>	<i>8-13</i>	<i>8-13</i>
<i>C (Min-Max)</i>	<i>15-16</i>	<i>18-21</i>
<i>D (Min-Max)</i>	<i>7-16</i>	<i>7-18</i>
<i>S (Min-Max)</i>	<i>96-145</i>	<i>129-236</i>

## Advantages of RADtec heaters

- **Wide range of applications**
- **Eco-friendly, safe for humans and animals**
- **Remote controlled**
- **Instant heat**
- **High efficiency**
- **2-yr warranty**
- **First heater with IP67 certification**

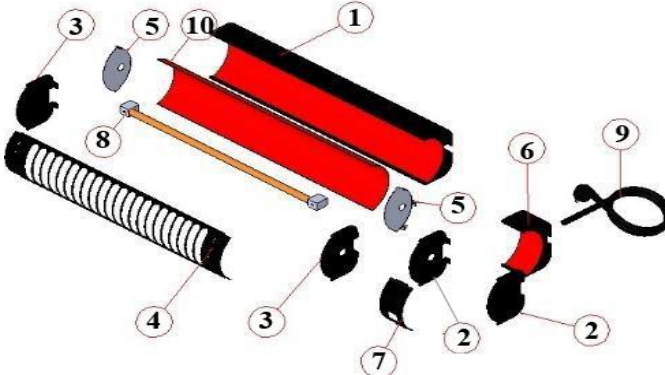
## Characteristics of Torrid Series Models

Product ID	T4000/8r	T4000/12r
Controller	Yes	Yes
IRWavelength	1,2 µm	1,2 µm
IRQuantity	2	2
IRFilament Length (mm)	2x355	2x550
Operating Voltage (Volt)	220V	220V
Total Power (Watts)	4000	4000
Dimensions (in)	34x6x5	50x6x5
IP Class	IP67	IP67
Heating Area (ft2)	96-145	129-236
Infrared Life (hours)	7000	7000
Warranty Period	2 Years	2 Years
BODY FEATURES		
Material used	Aluminum	Aluminum
Color	Black	Black
Power Cord	48in	48in
MOUNTING FEATURES		
Application surface	Wall/Ceiling	Wall/Ceiling

## Equipment

- **Packaging containers - 1 pc.**
- **Heater with power cable and plug - 1 pc.**
- **Remote control (with power supply - 2 pcs., Type AAA battery) - 1 pc. \***  
\* (for r series models)
- **Fasteners - set.**
- **Operation manual - 1 pc.**
- **Warranty card - 1 pc.**

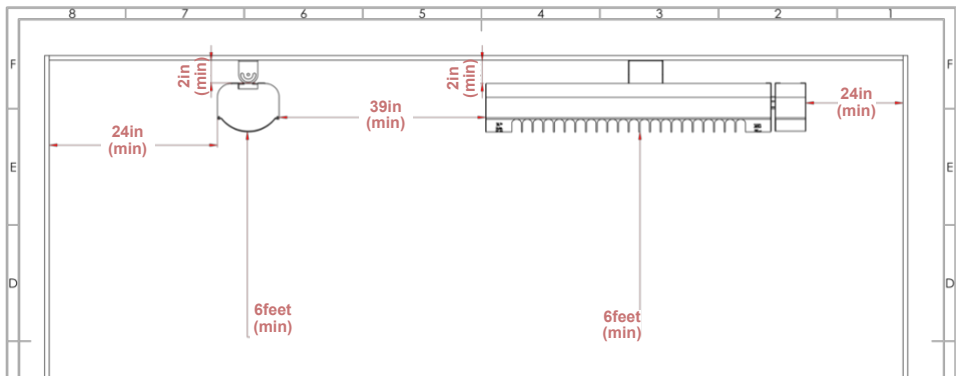
Heater device (fig. 1)



- |                                 |                                 |
|---------------------------------|---------------------------------|
| 1. Heater body                  | 2. Side control module covers * |
| 3. Heater casing lateral covers | 4. Protective grill             |
| 5. Side walls of the reflector  | 6. Control module housing *     |
| 7. Control module panel *       | 8. Infrared element             |
| 9. Power cable with plug        | 10. Heat Reflector              |

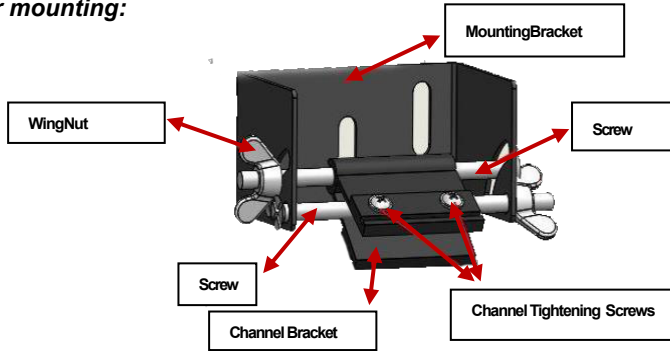
## Heater fixing procedure

1. Inspect the heater for external damage.
2. Determine mounting location for the heater, taking into account the requirements indicated in the diagram.

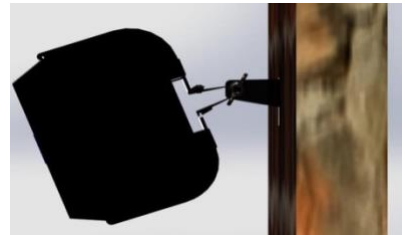


3. Fix the mounting bracket to the surface (wall or ceiling).
4. Assemble the heater mounting mechanism as shown in the Heater Mounting section.
5. Install the heater on the bracket using the guides on the back of the housing . When mounting the heater on a vertical surface, ensure that the Control Module is in the correct position (page 8)
6. Connect the heater to a power supply in accordance with local electrical and fire safety requirements.

**Heater mounting:**



**Finished mounting hardware**



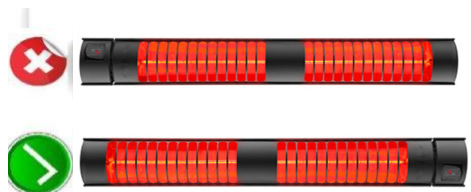
**Wall installation of the infrared heater**

**Correct position of the heater on a vertical surface (wall) for Torrid series models**

**vertical placement**



**horizontal placement**



### **Heater Connection Requirements**

1. The heater is 220-240 volts.
2. The heater (s) are connected to a separate line with a dedicated circuit breaker with a current cut-off rating corresponding to the power of the heater (s).
3. Consult a licensed electrician for installation.

**WARNING:** Do not use extension cords as they are not designed to power outdoor heaters.

### **Safety warnings**

1. Use the heater only for its intended purpose.
2. Observe the required distances to the suspension height when installing and using the heater.
  - Heater distance to ground or floor - not less than 6 feet.
  - Heater distance to heated surfaces - not less than 24 inches.
3. Do not place or store flammable objects and materials in the place where the heater is used.
4. Do not touch the heater during operation, and do not allow children and pets to come into contact with the heater.

### **Heater remote control**

**There are 3 buttons on the remote control.**

Button 1 (bottom right) - power on / off.

Buttons 2 and 3 - selection of 4 heating power modes.

The selected mode is displayed on the display of the heater control module. It is possible to control several heaters using one remote control.



### **Heater maintenance**

- To ensure stable operation of the product, regularly inspect the heater and the supply cable for external damage
- As the heater and reflector become dirty, clean in the following order:
  1. Make sure that the heater has not been used and that the casing of the heater is at ambient temperature.
  2. Disconnect the heater from the power source, remove it from the attachment point and place it on a horizontal surface.
  3. Clean the external elements of the heater with a dry clean, soft cloth.
  4. Remove the left side cover of the heater housing. There are two screws on the end of the heater and two screws on the rear wall of the housing
  5. Carefully slide the protective grill out of the left side.
  6. Clean the internal elements of the compartment with a dry clean, soft cloth.

**WARNING:** Use cotton or latex gloves to clean. This will prevent contact with the IR element. Direct contact with the element will leave fingerprints, which will negatively affect its operation and damage the heating element.

7. After cleaning the heater, reassemble in the reverse order and reinstall the heater.