



# DELTA Ultimate

radiator

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## Instructions manual

Mounting, installation, start-up and operation

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**e·life**  
technology





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**Thank you.**

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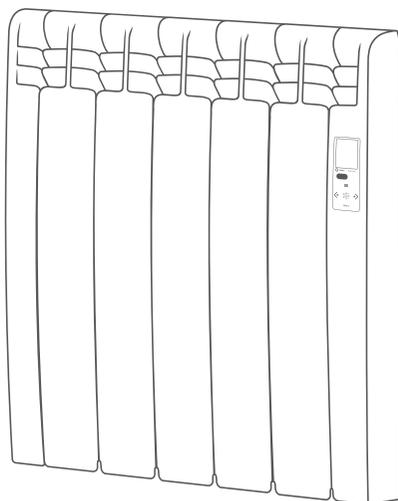
Thank you very much for choosing Rointe heating. Before using the low consumption DELTA Ultimate digital electric radiators, we recommend you to read this instruction manual in order to ensure correct operation.



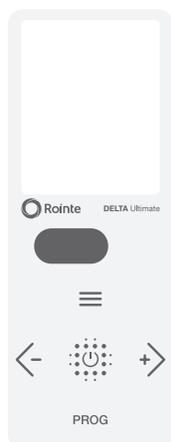
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## 1. DESCRIPTION OF THE “DELTA ULTIMATE ” RADIATOR

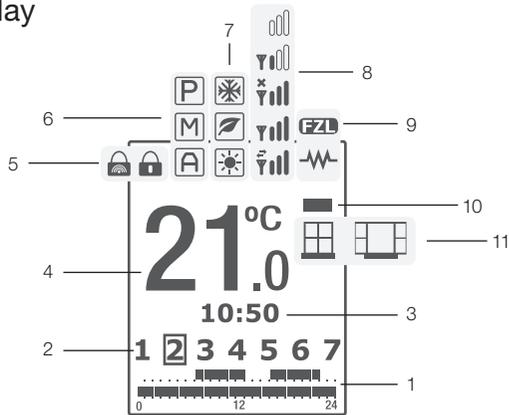


### 1.1. Front panel description



ICON	INDICATION
	On / Off - Accept
	Decrease temperature - Move left
	Increase temperature - Move right
	Access/Back to menu - Move up
PROG	Access to program menu - Move down

1.1.1. TFT display



NUM.	INDICATION
1	Programming hours
2	Days of the week
3	Time of day
4	Selected temperature
5	Locking the control panel
6	Manual / Automatic functions
7	Comfort / Economy / Anti-frost modes
8	Net connection status

9	Heating element on / Fuzzy Logic Energy Control on
10	Consumption indicator
11	Open windows function
ICON	INDICATION
	Open windows function - enabled mode
	Open windows function - active mode
	Energy consumption indicator - green - yellow - red
	Heating element on
	Fuzzy Logic Energy Control working
	Connected to the server and router - sending and receiving.
	Connected to the server and router - maximum net signal.
	Connected to the server and router - minimum net signal.
	Not connected to the server or to the internet. Connected to router.
	Not connected to the server. Not connected to the router.

	Comfort mode on.
	Eco mode on.
	Anti-frost mode on.
	Automatic function on.
	Manual function on.
	Pilot wire control function on.
	Automatic function on when USER function is working.
	Manual function on when USER function is working.
	Pilot wire control function on when USER function is working.
	Locked through radiator control panel.
	Remote lock. Locked through IR remote control or Rointe Connect App.

## 1.2. Switching On & Off (stand-by)

<p>By pressing the  key, you can switch the radiator on or off. The following image will appear on the screen when the radiator is switched on.</p>	
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<p>After 5 seconds, the temperature, time and days of the week will be displayed on the main screen.</p>	
<p>By pushing the  button again the radiator will go into standby mode with the word 'standby' displayed.</p>	
<p>After 5 seconds the Rointe logo will appear.</p>	

### 1.3. Temperature selection

<p>By pressing &lt;- or +&gt; you can change the temperature. When the room temperature is lower than the set temperature the radiator will come on with the  symbol appearing.</p>	
<p>When the Fuzzy Logic Energy control technology is functioning this symbol  will appear instead of .</p>	

## 1.4. Locking the control panel

You can lock the control panel from the radiator, the Rointe Connect App or the AIR Control remote (optional). Here we show how to do it from the control panel of the product itself.

<p>By pressing the &lt;- and +&gt; keys at the same time for 3 seconds you can lock the control panel. The locked control panel symbol  appears and the keys will not respond.</p> <p>The following symbol will appear on the screen if any button is pushed.</p> <p>To unlock, press the &lt;- and +&gt; buttons together for 3 seconds.</p>	
<p>When the radiator is locked from the App or the AIR Control remote, the remote keypad lock  will appear on the screen.</p> <p>If any button is pressed, the image on the right will be displayed.</p> <p>When the keypad has been locked remotely, it can only be unlocked remotely via the App or the AIR Control remote.</p>	

## 1.5. Setting the day and time

You can set the time on the radiator from the control panel of the product itself or wait for automatic synchronization when the radiator

has been paired and is connected to the E Life technology, Rointe Connect App.

Here we show how to do it from the control panel of the product itself.

<p>Press the menu button  to access the main menu.</p> <p>Using the  and  buttons select the configuration sub-menu  and press  to access.</p>	
<p>In the configuration menu use the  and  buttons to select the clock option  and press  to access.</p>	
<p>Press the button , the hours, minutes and days of the week will flash according to the number of times it is pressed (1 for hours, 2 for minutes and 3 for day of the week).</p> <p>Pressing the buttons  and , set the correct time and day.</p> <p>Confirm by pressing the  button.</p>	

To leave the time and date adjust feature, wait 30 seconds or press  after the day of the week selection.

## 1.6. Main menu

The main menu of your Delta Ultimate radiator is accessed by pressing the menu  $\equiv$  button.

Pressing the buttons  $\leftarrow$  and  $\rightarrow$ , we can move across the different options on the menu.

The selected submenu will be highlighted with a frame.

The icons displayed on the following screen take you to the following submenus.

			
Settings submenu	Energy submenu	Balance function	Program submenu



### 1.6.1. Settings submenu

The submenu settings configure technical parameters. To access, select the  icon displayed in the main menu screen.

Pressing the buttons  $\leftarrow$  and  $\rightarrow$ , we can move across the different options on the submenu.

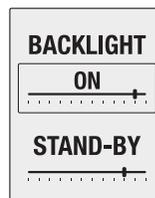
The screen shown on the right appears. The icons represent the following options:

			
Screen backlight	Internet settings	Language	Set time



- Screen brightness 

This allows you to change the brightness in the STAND-BY and ON modes. With the keys  and  we can switch between the two options. With the keys  and  we can increase or decrease the brightness. The cursor indicates the intensity of the light. Having set the required parameters press  to exit.



- Internet settings 

This prepares the product to communicate with the selected Wi-Fi network. To start the PAIRING mode, press the network configuration option . On the next screen the name of the network (NET) and password (PIN) will appear. Press the button  to exit the pairing mode and return to the main screen.



-  **Pairing your device**

To pair your device with your home internet network correctly follow the instructions in the attached leaflet “DELTA Ultimate heating system. Quick Setup Guide”.



- Language 

<p>This sets the language you wish to use to communicate with the product.</p> <p>With the keys  and  select the language required and confirm by pressing  when the chosen language is highlighted.</p>	
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- Set time 

<p>This sets the hour, minutes and day of the week in the product.</p> <p>To set the time and day in your product refer to section 1.5.</p>	
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### 1.6.2. Energy submenu

<p>The Energy submenu provides access to functions related with the energy management. Access by selecting the icon  from the main menu to enter the screen shown on the right. The icons represent the following options:</p>				
				
<p>Open windows function</p>	<p>Roite eye detect function (only Class II products)</p>	<p>Effective power function</p>	<p>Information</p>	

- Open windows function 

Allows you to enable or disable the Open windows function. With the keys  and PROG, select ON to activate or OFF to disable. Once the desired option is selected press  to confirm and exit. To know how this function works, please go to point 1.7.

**OPEN  
WINDOWS**

**ON**

**OFF**

 This function activates the anti-frost mode to 7°C when the radiator temperature sensor reads a drop of at least 4°C in 30 minutes.

- Rointe eye detect function   Only available on Class II products

Allows you to enable or disable the Rointe eye detect function. With the keys  and PROG, select ON to activate or OFF to disable. Once the desired option is selected press  to confirm and return to the temperature main screen.

**EYE  
DETECT**

**ON**

**OFF**

- Effective power function 

This function displays the working and total time connected and after 6 seconds, the nominal and effective power of the product.

**WORKING TIME**  
**000001h**

**TOTAL TIME**  
**000001h**

**POWER(W)**  
**1600**

**EFFECTIVE  
POWER(W)**  
**640**



The effective power is the actual value of its nominal power that our product consumes during periods of operation.

- Information

Displays the software version, the date of this release and the rated power of the product. To access, select the Information option using the keys <- and +> and confirm pressing the button. To leave press .

SOFTWARE VERSION <b>V1.00</b> <hr/> 19/02/2015 POWER 770W
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### 1.6.3. Balance submenu

The balance function returns the radiator to a constant 19°C.

Access this submenu by selecting the from the main menu. By pressing this option, the radiator will return to the main screen in Manual function, with the temperature set to 19°C.

<b>19.0</b> °C 10:50 1 2 3 4 5 6 7

### 1.6.4. Program submenu

This section, explains the operational aspects of the radiator in its various functions and modes.

## What are the functions of Manual, Automatic and Pilot Wire Control?



### Manual function

This function, allows you to change between Comfort, Eco and Anti-frost modes, and to change the temperature as described in point 1.3.

### Automatic function

This function activates the programming that has been previously set in the radiator.

### Pilot Wire function

This function allows the radiator to be controlled by a central programmer.

## ¿What are Comfort, Eco and Anti-frost modes?



These modes are the different temperature ranges available within the product.

Icon	Mode	Temperature range
✱	Comfort	From 19°C to 30°C
🍃	Eco	From 7.5°C to 18.5°C
✱	Anti-frost	7°C

The submenu provides access to options related to programming the radiator.

Select the  from the main menu using the keys <- and -> and press the key  to enter.

The icons represent the following:

MAN / AUTO		USER	PILOT
Manual / Automatic functions	Start programming	User function	Pilot wire mode (only Class II products)



- Manual / Automatic functions MAN/AUTO

<p>Press the button  to switch between manual and automatic functions.</p>		
<p>In the main screen the symbol  will appear for the Automatic function and the symbol  for the Manual function.</p>		

 The automatic function activates the programming you have already established in the product.

- Start programming 

To start programming select the icon  by using the keys <- and +> and then press the  key.



## 1 ●●●● Select COMFORT temperature

Select the COMFORT mode temperature between 19°C and 30°C using the <- and +> buttons. The symbol  and the temperature will flash.



## 2 ●●●● Select ECO temperature

Press  and proceed to the selection of the Eco temperature between 7.5°C and 18.5°C. The symbol  and the temperature will flash.



## 3 ●●●● Select DAY

After pressing the button  once again, the days of the week will start flashing and show as DAY 1, DAY 2, DAY 3....

We can go forwards and backwards using the button <- and +>. Press  to select the day or days that you wish to program.





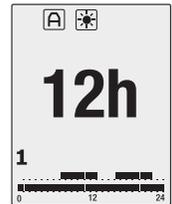
### Set Mode to each HOUR

To access the hourly programming, press  $\rightarrow$  until 0h appears on the main screen of the radiator.

This is midnight.

To move through the hours use the  $\leftarrow$  or  $\rightarrow$  buttons.

With the  button, you can select between Comfort, Eco and Anti-frost modes for every hour.

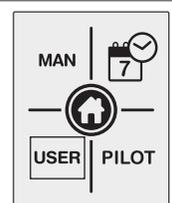


To finish the programming press  $\equiv$  or leave it for 30 seconds without pressing any buttons.

To change the programming, go back to point 1, and proceed as described before.

- User function **USER**

To enter the User function, select the icon **USER** using the  $\leftarrow$  and  $\rightarrow$  buttons and confirm by pressing .



## **i** USER function

This allows you to establish a working temperature range (i.e. a maximum temperature and a minimum temperature). A 4 digit PIN code will allow you access to a menu: here this feature can be enabled or disabled, your PIN code can be changed and the parameters of the temperature range can be set. When this mode is enabled, one of the following icons will appear on the main screen    depending on which mode it is currently in, Automatic, Manual or Pilot.

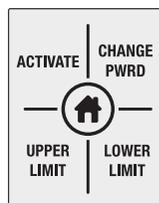
To access this feature enter the PIN code, the default PIN code is 0000. Enter the numbers using the buttons <- and >+ and confirm by pressing . If the PIN is entered incorrectly the INCORRECT PIN screen will show.

INSERT PIN		
1	2	3
4	5	6
7	8	9
CANCEL	0	OK

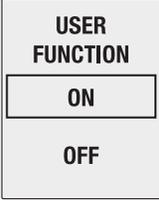


Once the PIN number has been entered correctly, the main control screen will be shown. The icons access the different submenus shown below.

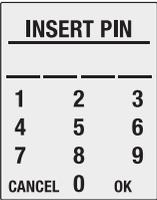
ACTIVATE	CHANGE PWRD	UPPER LIMIT	LOWER LIMIT
Enable/Disable function	Change password	Upper temperature limit	Lower temperature limit



- Enable function **ACTIVATE**

<p>Enable or disable the User function. With the Keys <math>\equiv</math> and <math>\text{PROG}</math> select ON to enable and OFF to disable. Once the desired option is highlighted press <math>\text{OK}</math> to confirm and exit.</p> <p>On the main screen you will see the <math>\text{A}</math> icon in automatic function, the <math>\text{M}</math> icon in Manual function and <math>\text{P}</math> when in Pilot Wire control function.</p>	
<p>At the top of the screen, the <math>\text{A}</math> icon will appear when in Automatic function and a <math>\text{M}</math> when in Manual function.</p> <p>If the <math>\text{P}</math> icon appears, the radiator will be set on Pilot Wire function.</p>	

- Changing the PIN code **CHANGE PWRD**

<p>You can change the access PIN code for this feature.</p> <p>To access, first introduce the current PIN code. Use the <math>\leftarrow</math>, <math>\rightarrow</math> and <math>\text{OK}</math> buttons. The default PIN is 0000.</p> <p>If this PIN code is incorrect the screen will show INCORRECT PIN, re-enter the original pin.</p>		
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Once the PIN is entered correctly you can choose a new PIN code by using the <- , +> and  buttons.

To confirm select OK. The screen will show PIN CHANGED.

NEW PIN		
1	2	3
4	5	6
7	8	9
CANCEL	0	OK

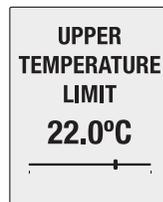


- Upper temperature limit **UPPER LIMIT**

This sets the upper limit working temperature of the radiator.

Using the <- and +> buttons scroll through until you reach your desired upper maximum working temperature.

Press  to confirm and exit.

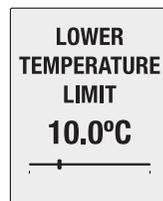


- Lower temperature limit **LOWER LIMIT**

This sets the lower limit of the working temperature of the radiator.

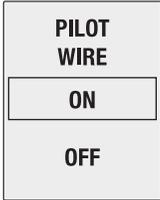
Using the <- and +> buttons scroll through until you reach your desired lowest minimum working temperature.

Press  to confirm and exit.



To exit, press the  button or leave the radiator for 30 seconds.

- Pilot wire mode **PILOT**  Only available on Class II products

<p>Allows you to enable or disable the Pilot wire control mode. With the keys  and  , select ON to activate or OFF to disable. Once the desired option is selected press the  to confirm and exit.</p> <p>In the main screen the symbol  will appear.</p>		
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 **WARNING!**

 The pilot wire mode allows your heating only to be controlled via a pilot wire programmer. That means you can not use the Rointe Connect App to manage the products.

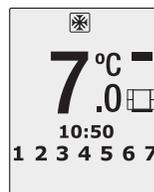
**1.7. Open windows function**

This function is activated when the temperature sensor detects a drop of 4°C from the set temperature within 30 minutes.

<p>On activation of this function, the following image will appear on the radiator display for 5 seconds:</p>	
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When the “Open Windows” function is activated, the radiator will move into Anti-frost mode 7°C.

The following screen will appear showing that the anti-frost mode is activated:



This function will be active for 2 hours. If the button  is pushed during this period the radiator will switch off.

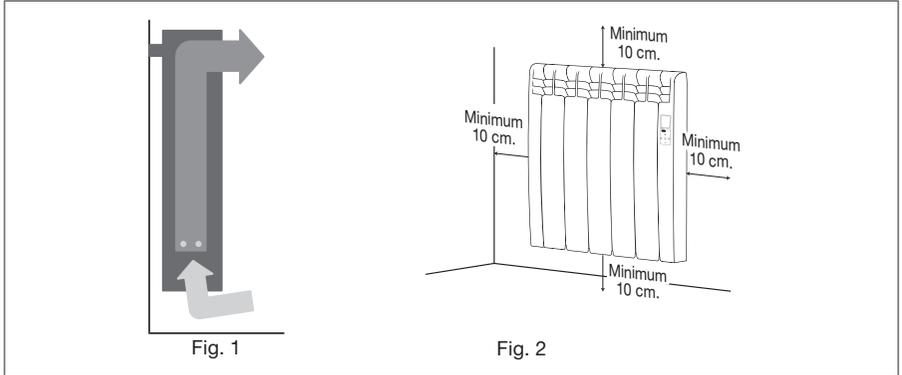
Pushing the button  again will switch on the radiator without the “Open window” function being switched on.

## 2. INSTALLATION & MOUNTING

The radiator must never be installed immediately below a power point. In bathrooms, the radiator must never be installed where the switches and other devices may be within the reach of someone in the shower or bathtub.

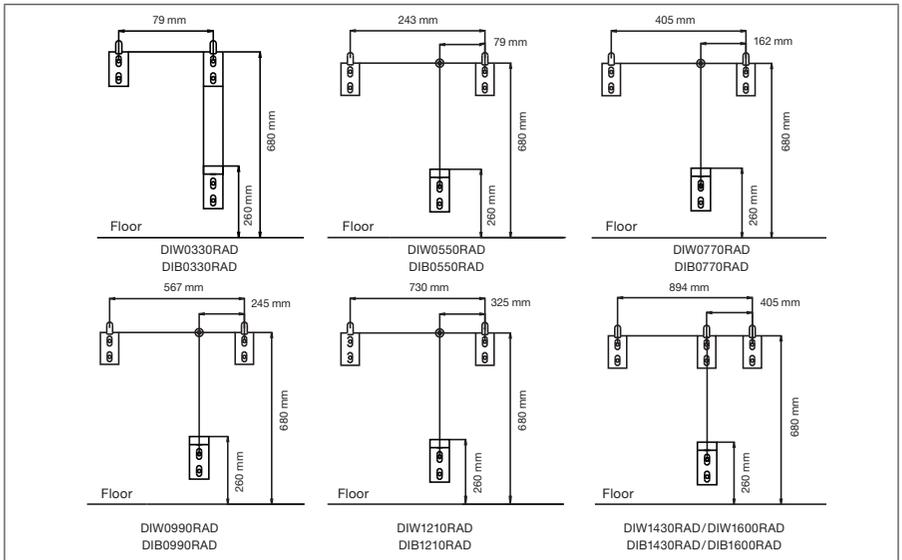
### 2.1. Mounting

The DELTA Ultimate radiator works by means of natural air convection (Figure 1). In order to achieve optimal functioning and an even distribution of heat, the lower part of the radiator, once mounted on the wall, must be at least 10 cm from the floor, and 30 cm at the most. As for the sides and above, a minimum distance of between 10-12 cm must be left from any wall or brickwork in order for it to function correctly (Figure 2).



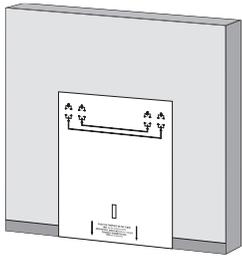
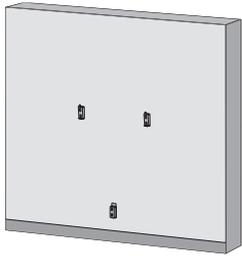
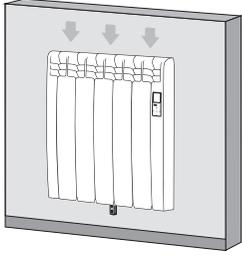
## 2.2. Fixing the supports

Inside the packaging you will find a fixing kit with the supports. For the correct installation of the radiator, please take into consideration the following installation measurements:



## 2.3. Placing the radiator

Please, follow these instructions for the correct installation of the radiator.

<p>Select the appropriate place in the wall and place the provided cardboard template against it.</p> <p>Make small marks on the places where the holes of the template are located.</p>	
<p>Remove the template.</p> <p>Make holes in the wall where the marks are.</p> <p>Place the upper brackets on the wall using the plugs and screws provided within the packaging.</p> <p>Place the bottom bracket checking its correct position.</p>	
<p>Hang the radiator from the top.</p>	

### **3. MAINTENANCE & CLEANING**

The radiator does not require any type of maintenance. We recommend that all parts of the radiator are kept clean (behind, underneath, upper fins etc.). Do not use any abrasive product on the aluminium. Clean it with a damp cloth and a pH neutral soap, and the stencil with a dry cloth.

### **4. INSTALLATION & SAFETY PRECAUTIONS (EN 60335 STANDARDS)**

Before switching on the radiator, please read the “Installation & Safety Precautions” in detail first, to ensure the correct operation of the radiator.

#### **4.1. Installation precautions**

The radiator is designed for household or residential use. You are advised to have the radiator installed by an authorized dealer or personnel. Make sure the radiator is properly connected to 240V, and is earthed.

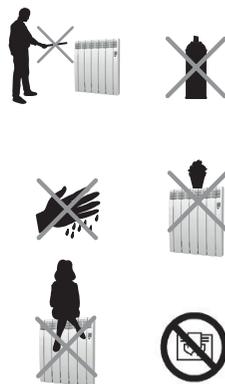
#### **4.2. Safety precautions**

This appliance can be used by children aged from 8 years and above and persons with reduced physical sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and user maintenance should not be carried out by children without supervision. Children must be supervised at all times to ensure that they do not play with

the product. This radiator heater is filled with a precise amount of special oil that does not need any maintenance. Any repairs requiring the opening of the oil tank must only be done by ROINTE or its after-sales service, who should also be notified should an oil leak be noticed. The regulations on discarding oil when the heater is being disposed of must be observed. If the power cable is damaged, it must be replaced by the manufacturer, its after-sales service or authorized personnel in order to avoid any damage.

## WARNING!

In order to avoid overheating, don't cover the heater. Don't insert any kind of object in the air vents. Never use with wet hands. Don't place any containers with water, such as glasses, vases, etc. on the radiator. Don't use insecticides, paints or aerosols on the radiator. Don't sit on the radiator or place anything in front of it.



## European Directive 2012/19/EC

Under the European Directive 2012/19/EC on waste electrical and electronic equipment (WEEE), the apparatus cannot be disposed in the usual council bins and containers. They must be separated to optimize the recovery and recycling of all of the components and materials and reducing the impact to human health and the environment. The symbol of the container crossed out over a horizontal line is marked on all of ROINTE's products to remind

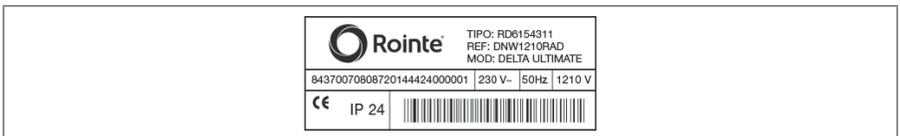
the consumer of the obligation to separate them on disposal. The consumer should contact the local authority or original point of sale to learn more about the correct disposal of this product.

## 5. GUARANTEE

In this section, we hereby describe the guarantee conditions which the buyer acquires on buying a new radiator of Rointe brand. These conditions comply with all the rights construed in the national legislation in force, as well as any additional rights and guarantees which are offered by Rointe.

**5.1.** Any problem that you might detect in your Rointe radiator, can be seen to quickly by the manufacturer.

Rointe provides a contact telephone number for any technical support **01432 598 024** or the following email address **support@rointe.co.uk**, through which we will instruct you on how to solve the problem. **You will need to state the product reference (located on the label indicating product features), serial number, date of purchase and the type of problem at hand when contacting us so that we may prove the item is still under the guarantee. In addition, please attach a copy of the product invoice.**



**5.2.** Rointe guarantees that there are no material defects of design or manufacture at the time of original acquisition and guarantees for a period of 120 months for aluminium and sealing and 24 months for

electronic and electrical components.

**5.3.** If during the guarantee period, the product does not work correctly under normal use, and any design, material or manufacturing defect is found, ROINTE, will repair or substitute the radiator, as it may see fit, in accordance with the terms and conditions established, as follows:

5.3.1. The guarantee is only applicable if the original guarantee is issued by the seller and when the said guarantee is filled in correctly including product reference, series number (marked on the product's label indicating technical features), purchase date and the seller's stamp. ROINTE reserves the right to reject the guarantee service when this information has been removed or modified after the original product purchase.

5.3.2. The guarantee only applies to those cases that concern material, design and manufacturing defects, and under no circumstances covers damage to the radiator for the following reasons:

- a) Incorrect use of the product, i.e. used for other purposes that are not construed as its normal use or for not respecting the instructions of use and maintenance given by Rointe, as well as incorrect installation or use of the product that may not comply with the current technical standards of safety.
- b) Any unauthorised repairs carried out by unauthorised technicians or opening of the radiator by unauthorised people.
- c) Any accidents that are deemed outside the control of Rointe, such as lightning, fire, flood, public disorders, etc.,

5.3.3. Any repairs or substitutions that are included in this guarantee do not allow any additions or new periods of guarantee.

5.3.4. Any repairs or substitutions covered under this guarantee must be parts that are functionally equivalent. The defective parts or parts removed or replaced shall become the property of Rointe.

**5.4.** The technical service of Rointe will advise you if you need to buy any parts not covered under the guarantee or out of guarantee.

**5.5.** This guarantee does not affect the buyer's legal rights stipulated in the current national legislation, neither affects those rights against the distributor or installer that could come forth in compliance with the purchase contract.

**5.6.** In the absence of a national legal legislation applicable, this guarantee shall prevail and may be construed as the buyer's only protection. Rointe, its offices, distributors and installers may not be held responsible for any accidental damage that emerges due to infringement of any rules implicitly related to this product.

**5.6.** All the materials are covered by the respective guarantees for any manufacturing faulty from the date of sale and acceptance of the fault by our Technical department will be required before the faulty product is returned to us. Please refer to our brochure to check all the details.

**5.7.** The Company reserves the right not to accept the debit notes received by the Customer. No debit note from the Customer can be accepted without prior written agreement of the Company and if the Company provides written agreement to process the debit note accordantly.

**5.8.** Check the EULA conditions in the attached document and get informed about the legal agreement you accept when installing the DELTA Ultimate system.

MODEL	ELEM.	POWER	VOLTAGE	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)	INST. DEPTH (mm)	WEIGHT WITH PACKAGING
DIW0330RAD DIB0330RAD	3	330 W	230V~	585	350	97	120	8.8kg
DIW0550RAD DIB0550RAD	5	550 W	230V~	585	510	97	120	13.3 kg
DIW0770RAD DIB0770RAD	7	770 W	230V~	585	675	97	120	17.5 kg
DIW0990RAD DIB0990RAD	9	990 W	230V~	585	835	97	120	21.5 kg
DIW1210RAD DIB1210RAD	11	1.210 W	230V~	585	992	97	120	25.2 kg
DIW1430RAD DIB1430RAD	13	1.430 W	230V~	585	1,160	97	120	27 kg
DIW1600RAD DIB1600RAD	15	1.600 W	230V~	585	1,320	97	120	33.2 kg



Cut along the dotted line

## CERTIFICATE OF GUARANTEE



In the event of detecting any defect in the product within the period of guarantee, you must fill in the following Guarantee Certificate and send it to us stamped together with a copy of the sales invoice via email [support@rointe.co.uk](mailto:support@rointe.co.uk) or to the following postal address: INDUSTRIAS ROYAL TERMIC, S.L., C/E, Parcela 43, 30140 Santomera (Murcia, Spain).

CERTIFICATE OF GUARANTEE	
REFERENCE:	N° SERIES:
USER:	
HOME ADDRESS:	
TOWN:	POSTCODE:
PROVINCE:	COUNTRY:
TELEPHONE:	SELLER'S STAMP:
EMAIL:	PURCHASE DATE:

NB: This certificate of Guarantee must be filled in fully in order to obtain guarantee rights. The date of purchase and seller's stamp are compulsory. Please, attach a copy of your sales invoices. In addition, for new constructions include the Certificate of First Occupation.







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