Rointe
heating

D Series with

DELTA Ultimate
technology

Rointe Digital Integral Heating System

The new heating system
with Wi-Fi Inside.

20 years / **3** years
Guarantee
Electric and electronic components
on the radiators

COLOUR*it!*
different **colours** available

We bring warmth
to your home.

www.greenvisioenergy.co.uk

Control your heating
anytime, anywhere.

E-fficiency
Home
£ 2.45
Savings

Rointe Digital Integral System

A unique system which covers all your heating and domestic hot water requirements

radiator + towel-rails + water heater

D Series
with DELTA Ultimate technology is...

COMFORT AND WELL-BEING

The Rointe Integral Digital System covers the 3 essential parameters to ensure true well-being in a comfortable environment:

| Temperature stability | 21°C ±0.25°C | Relative humidity | 30% / 70% | Air speed | <0,1m/s |

LOW CONSUMPTION TECHNOLOGY

Tests carried out in independent laboratories prove that the low consumption "Fuzzy Logic Energy Control" helps the products to achieve a **co-efficient of non-consumption of 62%** of the nominal power.

21°C

62%
EQUIVALENT RATIO OF NO CONSUMPTION

38%

DIRECT WIFI COMMUNICATION WITHOUT GATEWAYS

The joining of Wi-Fi Inside and E·Life technology makes the D Series the only system which **doesn't need gateways or intermediary terminals in order to work.** The connection between the product and the application is established directly ensuring an immediate connection.

System without GATEWAYS
direct connection

wifi inside   e·life technology   wifi inside

ROUTER

MOBILE CONNECTION

Control your heating in the easiest way by internet via the **Rointe Connect App (available for smartphone, tablet and Pc)** whenever you want and wherever you are. It is an application for iOS, Android and web platform for other operating systems.

TOTAL CONTROL OF COSTS

E·fficiency shows you how efficiently you are using your heating system. It lets you **know the statistics of temperature, consumption, running costs and savings accumulated** in real time thanks to the incorporation of the current meter "True Real Power" in all the D Series products.

NOTE: Rointe reserves the right to change the appearance and structure of the content included in this publication. Product images in this brochure do not necessarily correspond to the actual installed product.

D series with DELTA Ultimate technology

Thanks to the high quality components and the versatility that the mobile control offers, the D Series heating and domestic hot water systems bring comfort and wellbeing to demanding clients such as homes, hotels, retirement homes, student residences, colleges and universities.

NEW!

DELTA Ultimate technology
Efficiency, advanced communication and savings.

DELTA Ultimate was created by the union of energy control software **Fuzzy Logic Energy Control**, the technology **WI-Fi Inside** and the advanced electronics of the meter **True Real Power**. This synergy takes energy saving to a higher level by incorporating mobile monitoring into the heating systems.
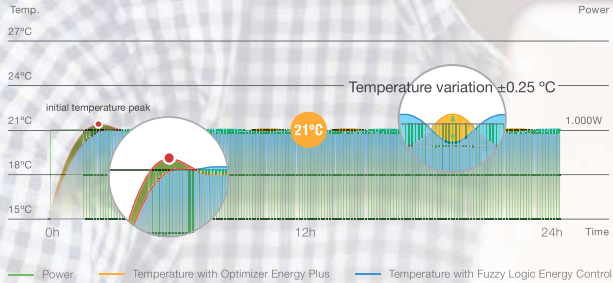
Fuzzy Logic Energy Control
A step forward **in optimizing energy**

- Low consumption
- A consumption ratio of only **38% of the nominal power**
- A reduction of **6.3% in the consumption ratio** of the Optimizer Energy Plus technology

Save

6,3% of energy*

CERTIFIED BY INDEPEDIENT TECH. CENTRES

Temp.
27°C
24°C
Temperature variation ±0.25 °C
21°C
initial temperature peak
21°C
18°C
1.000W
15°C
0h   12h   24h   Time
Power

— Power   — Temperature with Optimizer Energy Plus   — Temperature with Fuzzy Logic Energy Control

How does it work?

Upon initial start up this technology predicts the amount of energy required at every moment to reach the set point temperature. Fuzzy Logic Energy Control proportionally reduces the energy demand required to reach the desired temperature, smoothing the initial heat curve and favouring the subsequent stabilization of said curve. This technology has been tested by independent technology centres to show faster and more effective heating against the Optimizer Energy Plus technology.

21°C

62% EQUIVALENT RATIO OF NO CONSUMPTION

38% EQUIVALENT RATIO OF CONSUMPTION

100% NOMINAL POWER

* Value obtained by independent technology centres testing in a climatic chamber comparing 2 Rointe radiators, one with Optimizer Energy Plus technology and one with Fuzzy Logic Energy Control under the same parameters as defined in the report of the test.

Wi-Fi Inside Direct

wifiinside

The direct connection without **intermediary devices**

The D series has a **WI-Fi module integrated within its electronics** which allows a direct communication between the product and the **WI-Fi** network of the property.

- **Without gateways** or intermediary devices
- **Direct connection** product Wi-Fi → network
- **Individual connection:** if one gets disconnected, the rest keep working

True Real Power

The **current meter** which helps to save*

The current meter, Rointe **TRP,** which is installed in all the D Series products, collects and sends information about the true energy consumption of the product to the Rointe Connect App.

- Lets you know **how efficiently** the product is working and how it is being used
- Shows **daily, weekly and monthly consumption statistics in kW,** economic cost, temperatures and saving**
- Lets you see the **evolution of the financial** cost of the system and the savings according to its use

* The measurements were carried out by Rointe under stable, controlled conditions with a percentage of variability in the result. The value shown in the measurement may differ depending on conditions such as the network or other values. Rointe is not responsible that these variations affect the result. ** The value shown on the "SAVINGS" screen is the total of the savings of all the products which are installed. This saving is calculated by subtracting the effective power of the product from its nominal power then multiplying this figure by the price per KwH and the hours of use.
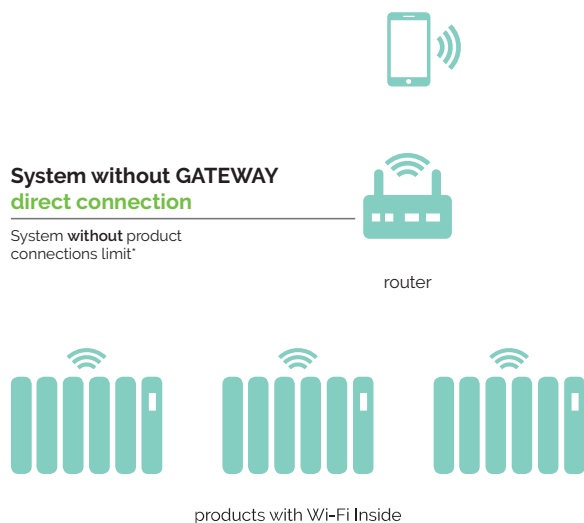
NEW!

e·life
technology

E·Life technology
control whenever & wherever you want

E Life Technology is the **communications protocol** designed by Rointe which allows the exchange of data between the D Series products and the Rointe Connect mobile App wirelessly via the internet.

In the heating market there are many wireless systems which use WIFI technology to control their products but none like Rointe's E-Life Technology system. Many systems which we find in the heating market with "Wi-Fi control" are in actual fact systems controlled by radio frequency as the radiators connect via RF868 to a central unit called a gateway, which they acquire separately, which is connected to the Wi-Fi router. This type of installation can turn out to be expensive, difficult to install and hard to configure by the end user.

The **E-Life Technology system** is 100% Wi-Fi that **doesn't require gateways nor intermediary devices** in order to work. The installation is as simple as connecting the radiators to the router and pairing them in few steps via the Rointe Connect App. That easy, simple and fast.

System without GATEWAY
direct connection

System **without** product connections limit*

router

products with Wi-Fi Inside

E-Life Technology never fails and there is no limit to the number of products which can be connected.* This makes the system ideal for whichever type of installation from a small house to the largest hotel chain as you can control as many radiators as you want from the same application. It's unlimited

*Some routers may have a limited number of connections. Contact your Internet Service Provider for more info.
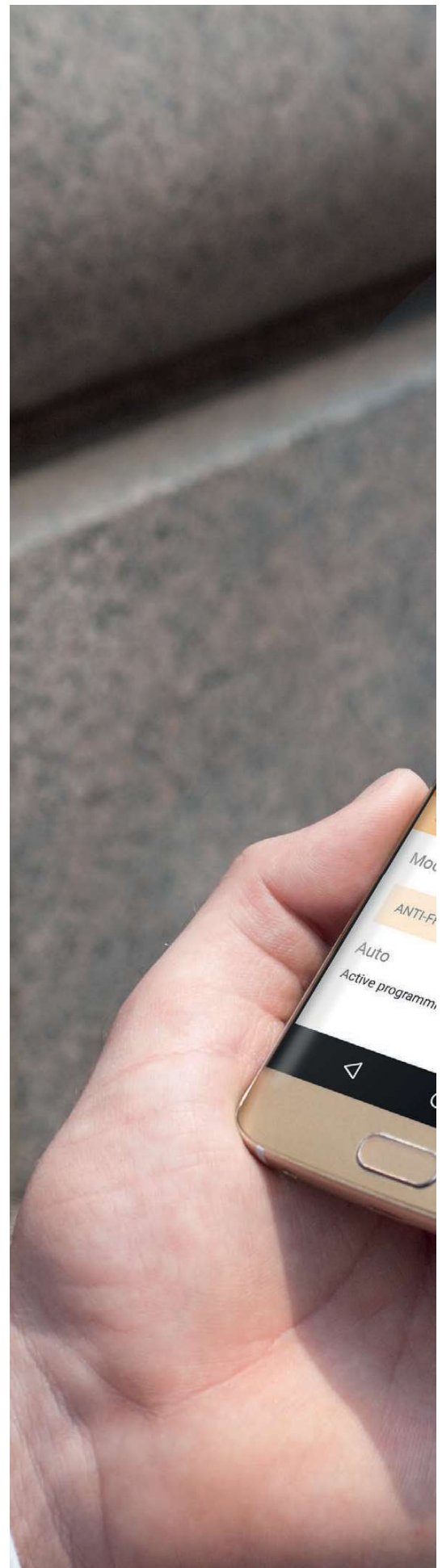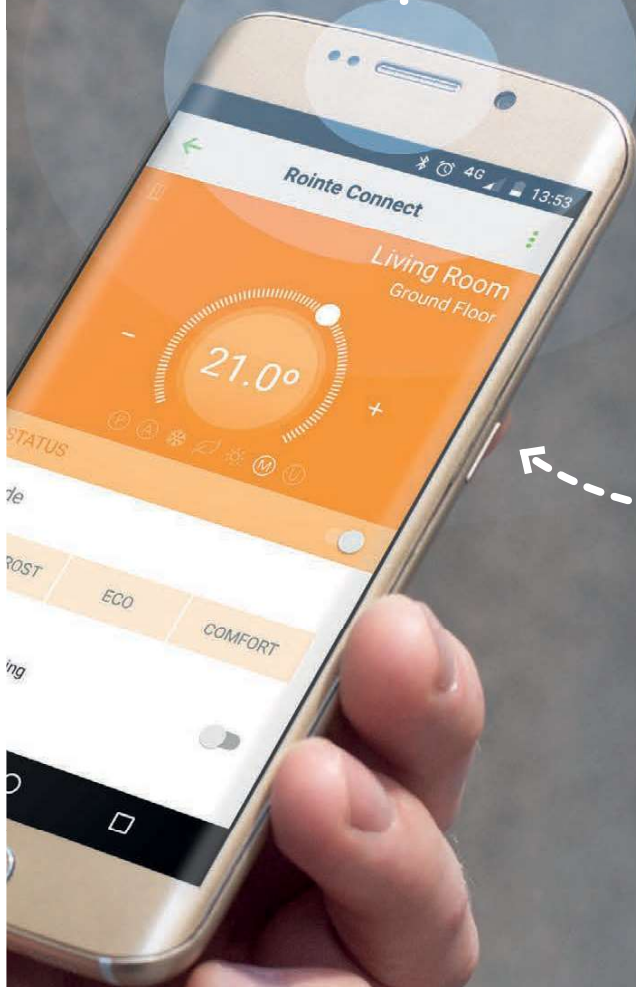
E·Life technology
Direct communication **between the product and the App.**

E Life Technology allows communication via internet between the D Series with DELTA Ultimate Technology products and the control app Rointe Connect. The characteristics of this technology are:

❯ Swift and direct connection. Instant updates of the changes in the products

❯ Easy installation. No need to buy and install gateways or intermediary devices

❯ Highly available cloud servers with unlimited device connections

❯ Individual systems. If one product gets disconnected the rest keep working

NEW!

E·fficiency
The real consumption in real time[*]

Rointe presents **E·fficiency**, the new update in Rointe Connect which lets you know at first-hand **how efficiently you are using the heating system**. It also lets you know the temperatures, consumption, running costs and savings accumulated in real time from your mobile, tablet or computer.

9:41 AM 100%

E·fficiency

MY INSTALLATIONS

Home
ON 5 zones

My office
ON 2 zones

Hotel
ON 9 zones

Hotel Grand Plaza
ON 21 zones
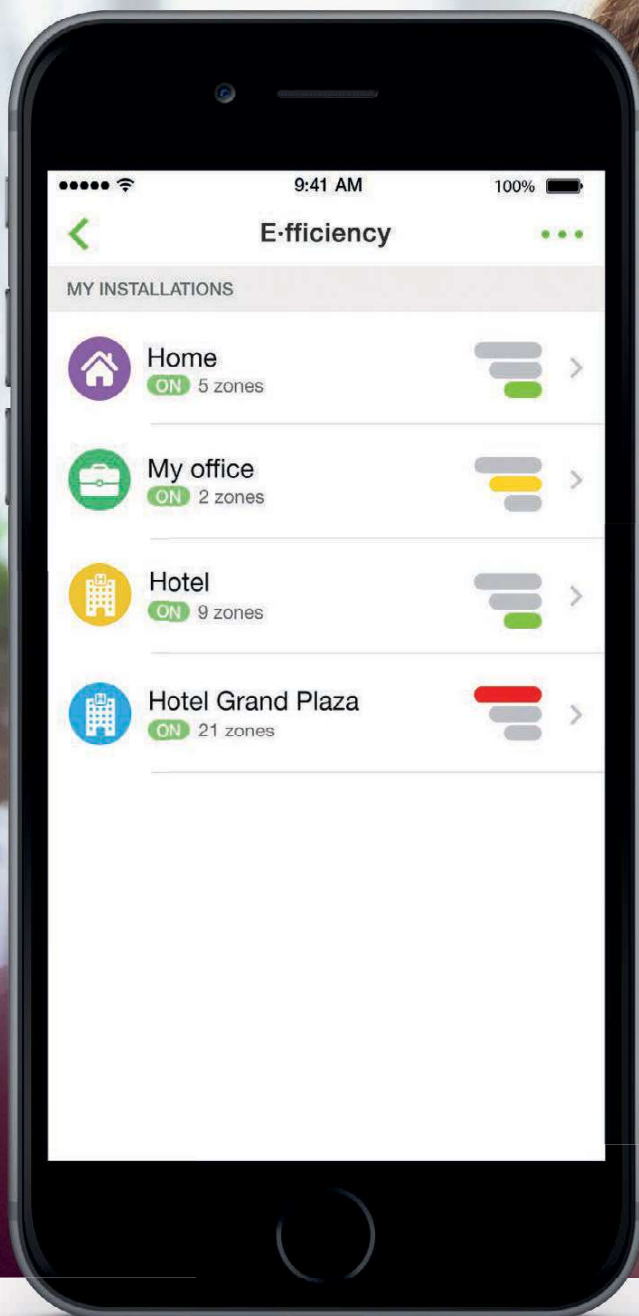
Comprehensive energy indicator

E·fficiency shows you **how efficiently you are using your heating installation**

E·fficiency shows the relation between consumption, temperatures, active programs and working time, using a 3 colour scale: red, yellow and green, to show the user the energy performance of their system. This may be excessive (red), for revision (yellow) or efficient (green).

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e·fficiency

**E·fficiency** is made up of 5 main screens:

See how much you save!

Consumption
Shows the real energy consumption by installation, zone or product.

Economic cost
This lets you know the real cost of using the heating system per day, month or year.

Temperature
Here you can see the temperature that has been set and that read by the product sensor.

Savings accumulated**
This shows the savings accumulated by having the D Series heating system.
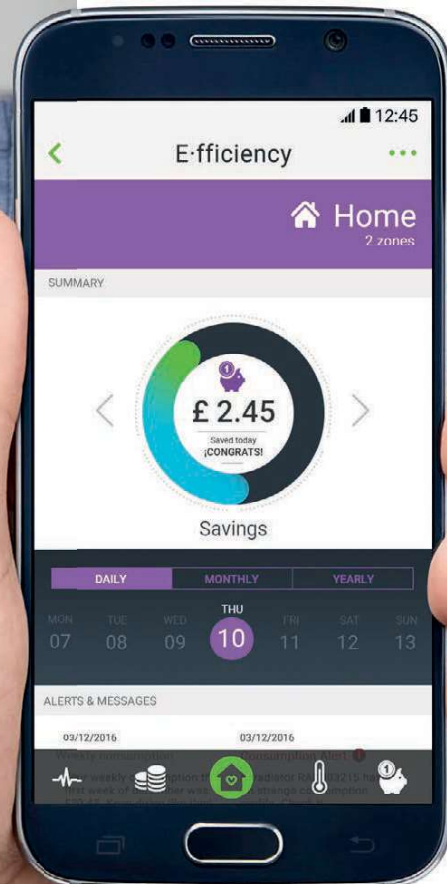
Summary of use

See at a glance how the **system is working**

This is the main screen of E·fficiency, where you can quickly find a summary of the use of your heating which interests you:

- Consumption of the installation in £ and KWh **by day, month or year***

- **Effective power consumed** in relation to the nominal power

- Daily, monthly and yearly **savings accumulated****

- **Data traffic consumed** by your products

** The value shown on the "SAVINGS" screen is the total of the savings of all the products which are installed. This saving is calculated by subtracting the effective power of the product from its nominal power then multiplying this figure by the price per KwH and the hours of use.
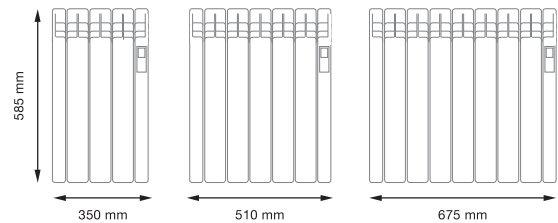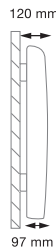
D Series **radiator** with
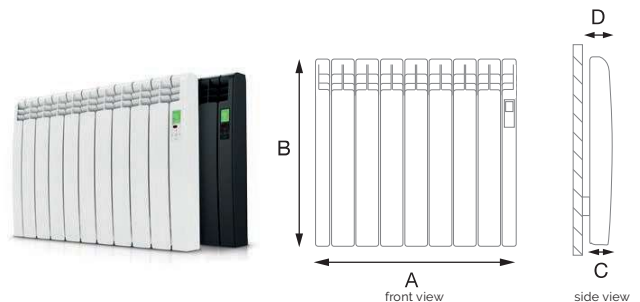# DELTA Ultimate
technology

AVAILABLE FINISHES

- White
- Graphite forge effect
- RAL colour*

- Fuzzy Logic Energy Control: energy smart technology
- 100% aluminium radiator with end panels
- Optimized design for maximum heat dissipation
- Two SMD electronics board circuits, lithium battery and triac
- Optimum balance with 110 w/element
- Finish available in RAL colours*
- 1.77" TFT screen with background colour personalisation
- E·life Technology: home automation technology
- USER Mode: possibility of assigning working temperatures range
- Wireless communication via WIFI and infrared
- Advanced control panel with touch control
- True Real Power: smart data consumption meter**
- "Open window" energy smart function
- Product functionality accessible through visual menus
- Consumption and control statistics**
- 20 year warranty on aluminium and 3 years on electronics

585 mm

350 mm 510 mm 675 mm

120 mm

585 mm

97 mm

835 mm 992 mm

585 mm

1,160 mm 1,320 mm

62% EQUIVALENT RATIO OF NO CONSUMPTION 38% 21°C

INFRARED wifi inside e·life technology IP24C

D

B

A
front view

C
side view

*Personalised colour available upon demand. Call us for further details and lead time. For any info on the RAL colour finishes please ask us for the colour chart. ** The measurements were carried out by Rointe under stable, controlled conditions with a percentage of variability in the result. The value shown in the measurement may differ depending on conditions such as the network or other values. Rointe is not responsible that these variations affect the result. To ensure the correct measurements the products should be connected at all times to the internet as a simple disconnection, however short it may be, may result in giving the wrong results. For more information, please consult the terms and conditions of E·fficiency in the Rointe Connect App.

MODELS	WHITE	DIW0330RAD	DIW0550RAD	DIW0770RAD	DIW0990RAD	DIW1210RAD	DIW1430RAD	DIW1600RAD
	GRAPHITE	DIB0330RAD	DIB0550RAD	DIB0770RAD	DIB0990RAD	DIB1210RAD	DIB1430RAD	DIB1600RAD
	RAL COLOUR	DIR0330RAD	DIR0550RAD	DIR0770RAD	DIR0990RAD	DIR1210RAD	DIR1430RAD	DIR1600RAD
N° of elements		3	5	7	9	11	13	15
DIMENSIONS								
A (mm) - Width		350	510	675	835	992	1,160	1,320
B (mm) - Height		585	585	585	585	585	585	585
C (mm) - Depth		97	97	97	97	97	97	97
D (mm) - Installed depth		120	120	120	120	120	120	120
MECHANICAL CHARACTERISTICS								
Armoured steel heating element		●	●	●	●	●	●	●
Curved design with Slim Line Aluminium end panels		●	●	●	●	●	●	●
High purity aluminium		●	●	●	●	●	●	●
Thermal oil		●	●	●	●	●	●	●
Control panel with touch keyboard		●	●	●	●	●	●	●
Weight (Kg)		7.7	12.2	16.4	20.4	24.1	25.9	32.1
Weight with packaging (Kg)		8.8	13.3	17.5	21.5	25.2	27.0	33.2
Finishes		White RAL 9016 / Graphite forge effect / RAL Colour						
ELECTRICAL CHARACTERISTICS								
Nominal power (W)		330	550	770	990	1,210	1,430	1,600
Effective power (W)*		**125**	**209**	**293**	**376**	**460**	**543**	**608**
Voltage (V)		230 V ~	230 V ~	230 V ~	230 V ~	230 V ~	230 V ~	230 V ~
Current (A)		1.5	2.4	3.4	4.3	5.3	6.2	7.0
FUNCTIONALITY								
TFT screen (1.77”)		●	●	●	●	●	●	●
Eco / Comfort / Antifrost Modes		●	●	●	●	●	●	●
New User mode		●	●	●	●	●	●	●
Manual / Automatic function		●	●	●	●	●	●	●
Screen brightness control		●	●	●	●	●	●	●
Nominal and effective power		●	●	●	●	●	●	●
Open windows function		●	●	●	●	●	●	●
Programmable 24/7 using keypad, Rointe Connect App or AIR Control		●	●	●	●	●	●	●
PERFORMANCE AND SECURITY								
Fuzzy Logic Energy Control		●	●	●	●	●	●	●
E·life Technology & Wi-Fi Inside		●	●	●	●	●	●	●
True Real Power & ULP32 microcontroller		●	●	●	●	●	●	●
Wireless communication		WiFi / Two-way infrared						
Temperature stability (°C)		±0.25	±0.25	±0.25	±0.25	±0.25	±0.25	±0.25
Air velocity (m/s)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Power per element (W/element)		110	110	110	110	110	110	110
Safety thermostat		●	●	●	●	●	●	●
Average surface temp. during steady period (°C)**		40 ℃	40 ℃	40 ℃	40 ℃	40 ℃	40 ℃	40 ℃
Protection grade		IP24C	IP24C	IP24C	IP24C	IP24C	IP24C	IP24C
INSTALLATION								
Template & Installation kit		●	●	●	●	●	●	●
CERTIFICATIONS								
2004/108/CE Electromagnetic Comp.		●	●	●	●	●	●	●
2006/95/CE Electronic Security		●	●	●	●	●	●	●
EAN CODE	WHITE	8436045913708	8436045913715	8436045913722	8436045913739	8436045913746	8436045913753	8436045913760
	GRAPHITE	8436045913777	8436045913784	8436045913791	8436045913807	8436045913814	8436045913821	8436045913838
	RAL COLOUR	8436045916235 -xxxx***	8436045916242 -xxxx***	8436045916259 -xxxx***	8436045916266 -xxxx***	8436045916273 -xxxx***	8436045916280 -xxxx***	8436045916297 -xxxx***
T.P.	WHITE	£ 352.00	£ 446.00	£ 558.00	£ 637.00	£ 707.00	£ 783.00	£ 874.00
	GRAPHITE	£ 373.00	£ 473.00	£ 591.00	£ 675.00	£ 750.00	£ 830.00	£ 926.00
	RAL COLOUR	£ 433.00	£ 573.00	£ 731.00	£ 855.00	£ 970.00	£ 1,090.00	£ 1,226.00

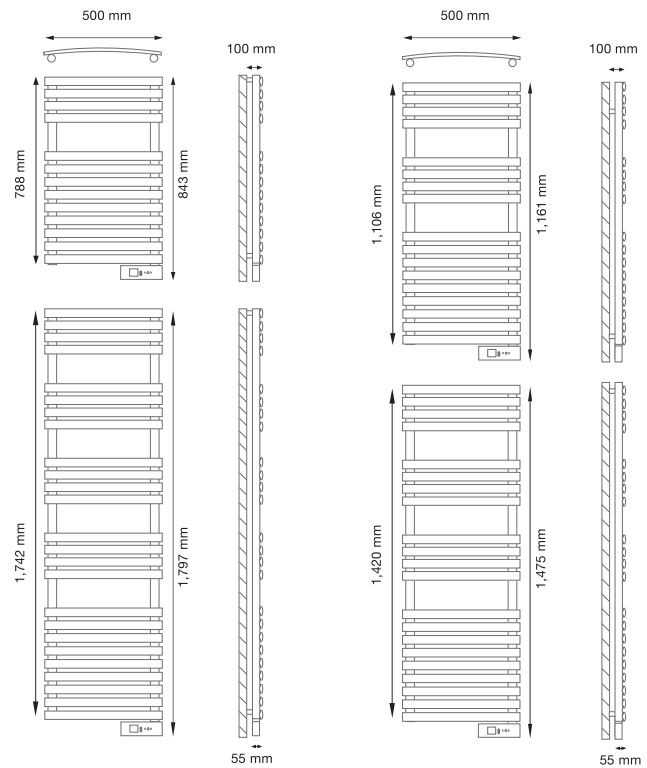● incorporated ○ not incorporated ☐ optional ✕ not available / not applicable

* In tests carried out by independent laboratories under the same test conditions comparing a radiator with Fuzzy Logic Energy Control and another with Optimizer Energy Plus (the first Rointe energy control technology) there was a difference of 6.3% in the energy consumed. This saving means that the radiators with Fuzzy Logic Energy Control use an average of only 38% of their nominal power. This is what we define as the equivalent ratio of consumption. We obtain the effective power by multiplying the nominal power by the equivalent ratio of consumption. ** Average surface temperature obtained with the radiator temperature set to 21°C. ***The last 4 digits of the EAN code corresponds to the desired RAL colour code. For any info on the RAL colour finishes please ask us for the colour chart.

D Series **towel-rails** with
DELTA Ultimate
technology

AVAILABLE FINISHES

- White
- Graphite forge effect
- RAL colour*
- Chrome

- Curved steel body design
- Optimal ratio between heating element and thermal fluid
- Two SMD electronics board circuits, lithium battery and ULP32 mcu
- Advanced control panel with touch control
- 1.77" TFT screen with background colour personalisation
- Available in three finishes and in RAL colours*
- E·life Technology: home automation technology
- Wireless communication via WIFI and infrared
- User Mode: possibility of assigning working temperatures range
- True Real Power: smart data consumption meter**
- 2 hour boost function
- "Open window" energy smart function
- Product functionality accessible through visual menus
- Consumption and control statistics**
- 10 year warranty on steel body and 2 years on electronics

COLOUR// different colours available

Class II **IP44**

INFRARED · **wifiinside** · **e·life** technology

*Personalised colour available upon demand. Call us for further details and lead time. For any info on the RAL colour finishes please ask us for the colour chart. ** The measurements were carried out by Rointe under stable, controlled conditions with a percentage of variability in the result. The value shown in the measurement may differ depending on conditions such as the network or other values. Rointe is not responsible that these variations affect the result. To ensure the correct measurements the products should be connected at all times to the internet as a simple disconnection, however short it may be, may result in giving the wrong results. For more information, please consult the terms and conditions of E·fficiency in the Rointe Connect App.

500 mm — 788 mm — 843 mm — 100 mm

500 mm — 1,106 mm — 1,161 mm — 100 mm

1,742 mm — 1,797 mm — 55 mm

1,420 mm — 1,475 mm — 55 mm

front view — side view

A — B — C — D — E