

Rointe

heating solutions

Brochure & price list for professionals | 2017



WITH
WI-FI

COMMITTED TO YOU *and your customers.*

COMPLETE
HEATING SYSTEM
1 UNDER
SINGLE
CONTROL

MEETS WITH
ALL
EFFICIENCY
REGULATIONS

INSTALLATION
**PLUG &
PLAY**

NO
MAINTENANCE*

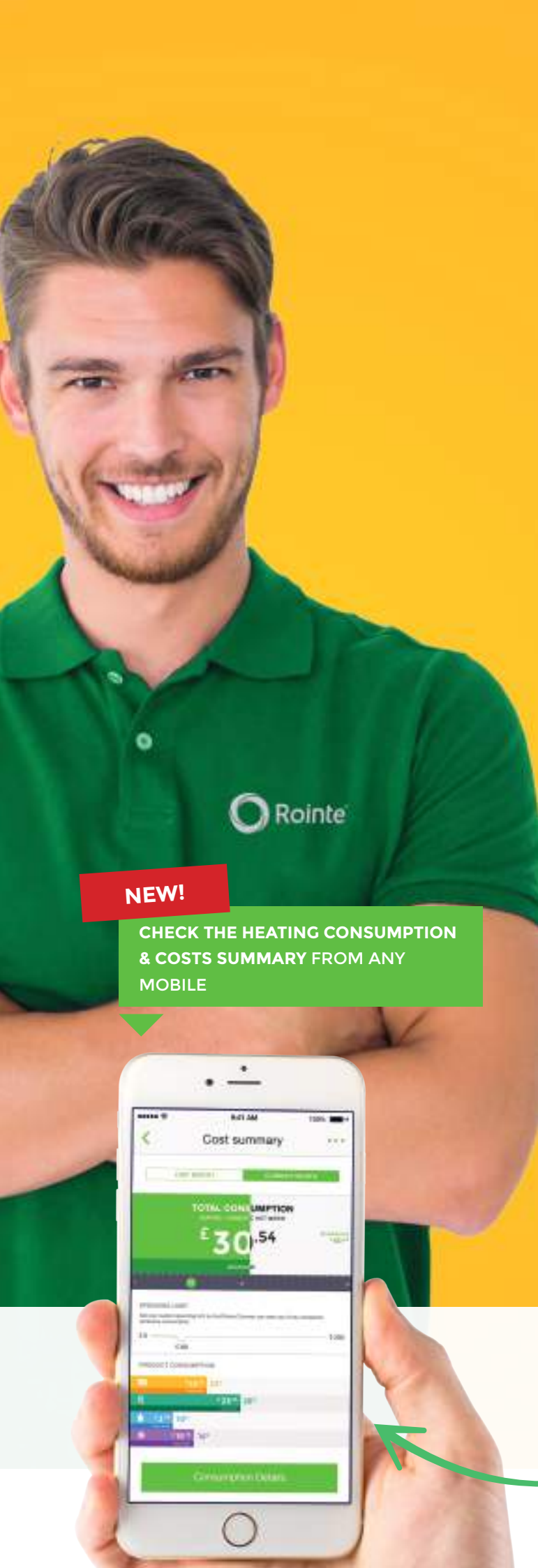
GUARANTEE
UP TO
10 YEARS*

Rointe, the electric Heating
Company you can trust.



ROINTE DIGITAL INTEGRAL SYSTEM

The efficient heating that you can control from any smartphone.



NEW!

CHECK THE HEATING CONSUMPTION & COSTS SUMMARY FROM ANY MOBILE

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Rointe commitments

At Rointe, we are committed to you **and your customers.**

In the chaotic world of heating, it is often difficult to recognize which products or systems are really efficient and suitable to provide comfort and well-being to any type of home or business.

There are many brands that promise the highest efficiency and the lowest consumption but when it comes to showing it, they have little evidence.

Therefore, at Rointe we want to show commitment to all our clients and demonstrate the sincerity of our business.

That's why we offer:

- **UNIQUE ELECTRICAL HEATING**
Radiators, towel rails & water heaters all under a single control (remote control or smartphone application).
- **WE COMPLY WITH ALL REGULATIONS**
Including the most demanding regulations of the market such as LOT20.
- **PLUG & PLAY INSTALLATION**
Install, plug & play!
- **NO MAINTENANCE***
No breakdowns or costly repairs.
- **MAXIMUM GUARANTEE***
Up to 10 years on the aluminium body of the radiators.

And to demonstrate what we say is true, you will be able to **check and control the consumption and the real time expense of your heating** with the CONSUMPTION SUMMARY. **You will even be able to set spending limits**, all from your mobile phone.

* Check the maintenance & guarantee conditions on page 111.

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Check out our new website.

Go to

<https://rointe.eu>

and discover our site, created especially for heating professionals like you.



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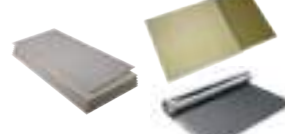
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Rointe with you.

The European leader in low consumption electric heating and hot water systems (D.H.W) for more than 30 years, Rointe is the result of **philosophy committed to innovation and quality.**

At Rointe, we work to offer our customers a quality product that is technologically advanced and efficient. We are an established brand that improves day by day, guided by the effort to offer the **most innovative, effective, sustainable and intelligent** solutions in the heating market.



WE MANUFACTURE

Leading manufacturers in heating innovation & development.

At Rointe our products are made with the best quality materials, the latest technology and exceed the highest quality standards.

Tested and certified low consumption

Rointe certifies, through tests carried out in prestigious international independent laboratories, the low consumption that is advertised in its products.

Through different tests, our R+D department has demonstrated that the technologies developed and patented by Rointe, allow the reduction of energy consumption without affecting comfort.



Efficiency, ecology and quality

Our goal is to create a thermal happiness that is both safe and with the highest quality, always guaranteeing the most efficient energy management.

For this reason, we develop low consumption electric heating products that are clean, ecological and respectful to our environment. In addition, our products have exceeded the highest quality standards and have the utmost quality seals from the most demanding certifications in the market.



The best customer service

We put at the service of our customers the best team of professionals to always offer the perfect heating solution, adapted to the needs of each client, whatever their technical requirements.

Contact us with the details of your installation and our technical department will make a detailed study, at no cost, with the integral heating system that is perfect for the home or business of your client.



Rointe is
innovative and
efficient digital
heating.

Leaders in innovation and technology

We are committed to innovation as a fundamental pillar of our business growth. For this reason, we have a department exclusively dedicated to R+D, which develops technologies and patents with the aim of improving the efficiency of our products.

This constant research and improvement makes our company a leader in the sector and a pioneer in the launching of innovations and improvements applied to the world of heating.

International prestige

Rointe is the European leader in the electric heating market. Our products are available in countries such as the United Kingdom, France, Spain, Portugal, Ireland and Greece. The international success of our products allows us to carry out a policy of constant expansion that allows us to be present in other european and non european countries.



Welcome to connected professional heating.



Discover the optimized, adaptive and intelligent comfort that **your pocket will love.**

Learn more at <https://elife.technology>

Rointe is not just another manufacturer of Wi-Fi heating devices. At Rointe, we have created the **INTEGRAL SYSTEM OF CONNECTED HEATING**, a heating system with integral home automation managed by the exclusive remote control platform of E-Life technology.

SYSTEM OPERATION

Discover how the D Series system works at home:



D Series radiator

- Wi-Fi & App control
- Low consumption
- Natural heat convection
- Energy saving functions
- Visualization of consumption & costs
- Up to 10 years guarantee



Underfloor heating & smart touch

- Wi-Fi & App control
- Radiant heat & natural convection
- Advanced programming
- Visualization of consumption & costs
- Up to 10 years guarantee

**EASY INSTALLATION
WITHOUT GATEWAYS**

e-lifecloud
technology



PRODUCT



ROUTER



APPLICATION

The product connects directly to the router without intermediate gateways, offering a higher speed of data transmission between the products and the cloud, eliminating any limitations on the quantity of connected products. Nor do you need any additional configuration on the user's router.

SYSTEM CONTROL

MULTIPLATFORM APPLICATION ROINTE CONNECT

The free Rointe Connect App allows complete control of all products in the installation – radiators, towel rails, water heaters and underfloor heating – in a collective or individual manner. The App also allows the possibility to distribute the products by zones (i.e. floors in a house) and subzones (i.e. rooms) without a limit on the number of rooms or linked products.



SIMPLE PAIRING IN 4 EASY STEPS

Our exclusive pairing system allows you to connect products with the app in just four steps. What if there's a power cut? No problem, the products will reconnect by themselves without having to enter any data again. **See more on page 67.**



BENEFITS FOR THE END USER



COST CONTROL

from the first minute

- Display of **actual consumption in kWh** and **cost in diverse currencies**.
- **Energy saving functions** such as **OPEN WINDOWS** and **USER mode**. [See more on page 17.](#)
- **Smart tips** that help reduce energy bills.



INTERACTIVE APP

easy to use

- **Free application:** native for iOS and Android, with a web app for other devices.
- **Real-time push notifications:** alerts on the smartphone screen.
- **Adaptable:** responsive interface compatible with smartphones, tablets and computers.



LIVE CONTROL

from your smartphone, tablet or PC

- **Control your entire installation easily** when and where you want.
- **Distribution of products by areas and sub areas** (i.e. house - floor - room - product).
- **Personalized programming** 24 hours, 7 days a week.
- **Four working modes:** COMFORT, ECO, ANTI-FROST and USER.
- **Remote locking** of all products.
- **Contingency management:** allows you to anticipate changes to your usual routine.
- **Optimization of the heating according to the user's priorities:** comfort and/or saving.



D Series towel rails

- Wi-Fi & App control
- Comfortable temperature
- Energy Saving Functions
- Visualization of consumption & costs
- Up to 10 years guarantee



D Series water heater

- Wi-Fi & App control
- Low consumption
- Energy saving and anti-legionella functions
- Temperature evolution function
- Visualization of consumption & costs
- 5 year guarantee on the boiler



SYSTEM CHARACTERISTICS

LONG DISTANCE WIRELESS CONNECTIVITY

Our Wi-Fi module allows the connection of products at a distance of up to 100 meters without obstacles*. The products that form the D Series range have a long signal range, are easy to install and have multimedia configuration tutorials on YouTube (Rointe Connect Channel).

INSTALLATION AND DATA SECURITY

E-Life allows the creation of zones, sub zones and installation of the products in a simple and unlimited way, offering great versatility to the user when configuring their installation. In addition, all data is transmitted in encrypted form and the information is stored on highly secured, available and accessible servers.

* Data obtained from the Wi-Fi module manufacturer.

The connected heating ideal for projects.

- Hotels
- Schools
- Offices
- Universities
- Retail stores

Given our long experience in thermal comfort, we offer efficient, easy-to-use, reliable and economical heating systems not only to home users but also to collective users who demand large-scale comfort solutions such as hotels, offices and schools.

Rointe offers a global heating solution that meets all the heating needs of any business, under a single control.

Here you can see the operation of the Rointe D Series in a hotel with centralized controls from reception:



Towel rails in bathrooms

The D Series towel rails give a touch of comfort to any bathroom, ensuring your towels are always ready.



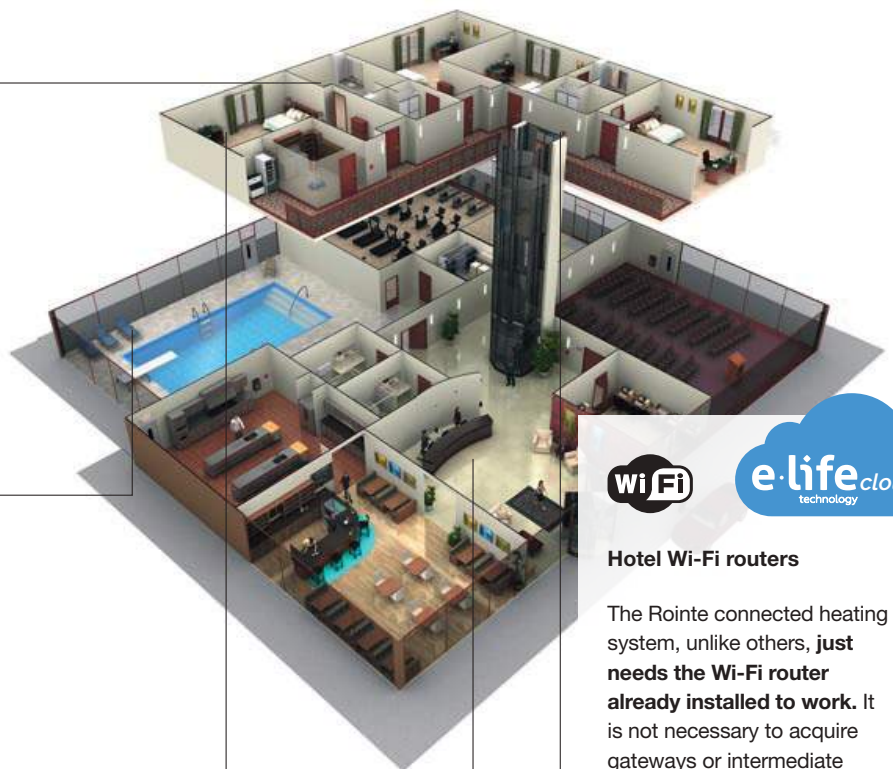
Underfloor heating in bathrooms & spas

The underfloor heating with Wi-Fi provides the extra touch that guests expect in bathrooms & wet areas.



Radiators in rooms & common areas

The D Series radiators are perfect to provide all rooms, corridors and common areas with the comfort that they need, with guaranteed Wi-Fi control.



Rointe Connect



Hotel Wi-Fi routers

The Rointe connected heating system, unlike others, **just needs the Wi-Fi router already installed to work.** It is not necessary to acquire gateways or intermediate terminals, which makes the installation easier and economical.

Direct Wi-Fi, secure with no disconnections.

The high power Wi-Fi system installed in our products reaches 100m without obstacles* and our servers have a reliability of 99.99%.

The system even allows remote locking at any time from the control centre to prevent guests from modifying installed products.



BUSINESS MANAGEMENT

From reception, you can easily manage the system. You can even control the overall expenditure on a daily basis and know the actual cost of your heating. This feature allows you to optimize and reduce costs.

 **REDUCTION OF HEATING**
costs

- **Display of actual consumption and costs.**
- **Power saving options** with OPEN WINDOWS function.
- **USER mode.** [See more on page 17.](#)

 **APP MULTIPLATFORM**
mobile control

- **Free application:** native for iOS and Android with a web app for other devices.
- **Real-time push notifications:** alerts on your smartphone screen.
- **Adaptable:** responsive interface compatible with smartphones, tablets and computers.

 **LIVE MONITORING**
from any smartphone, tablet or PC

- **Control** all products **from reception.**
- **Distribution of products by zones and sub areas** (i.e. floor-room-product).
- **Personalized programming** 24 hours, 7 days a week.

D Series towel rails

The perfect complement for your bathroom:

- **The wall anchors are close to the side of the body,** which makes it easier to hang towels and clothing.
- The **built in Wi-Fi module** allows **control from reception.**
- **The boost function on the towel rail allows for extra comfort in the bathroom.** This function activates the heating elements at maximum power for 15, 30, 60 or 120 minutes for that added touch.



CASE STUDY
Treacy's Hotel Wexford · Ireland

"The possibility to **control all radiators** in the hotel **from reception is vital**, since we can control the way that they are used at all times."

Rointe D Series has been successfully installed at Treacy's Hotel in Wexford, Ireland. A total of 30 radiators were installed throughout their rooms. In the words of the director and owner of the hotel, Anton Treacy, "It is an efficient, aesthetic and easy to use system. It also offers a very pleasant atmosphere and comfortable heat to our guests."

The heating system connected to your smartphone.

The Rointe Connect app is the control application for radiators, towel rails and smart water heaters that make up the D Series connected range. **Choose the Rointe connected heating system and have complete control of an entire installation in the palm of your hand.** From this moment on, your smartphone will work as a switchboard remotely connected via Wi-Fi to all the products in your facility for easy control and monitoring consumption.

Architecture of a Rointe D Series installation:

INTEGRATED MANAGEMENT THROUGH INSTALLATIONS

With the **Rointe Connect app** you can create as many unlimited installations as you need. **You can then control the heating or multiple installations at once**, for example in schools, student residences or even large offices and hotels.

DISTRIBUTION IN ZONES AND ROOMS

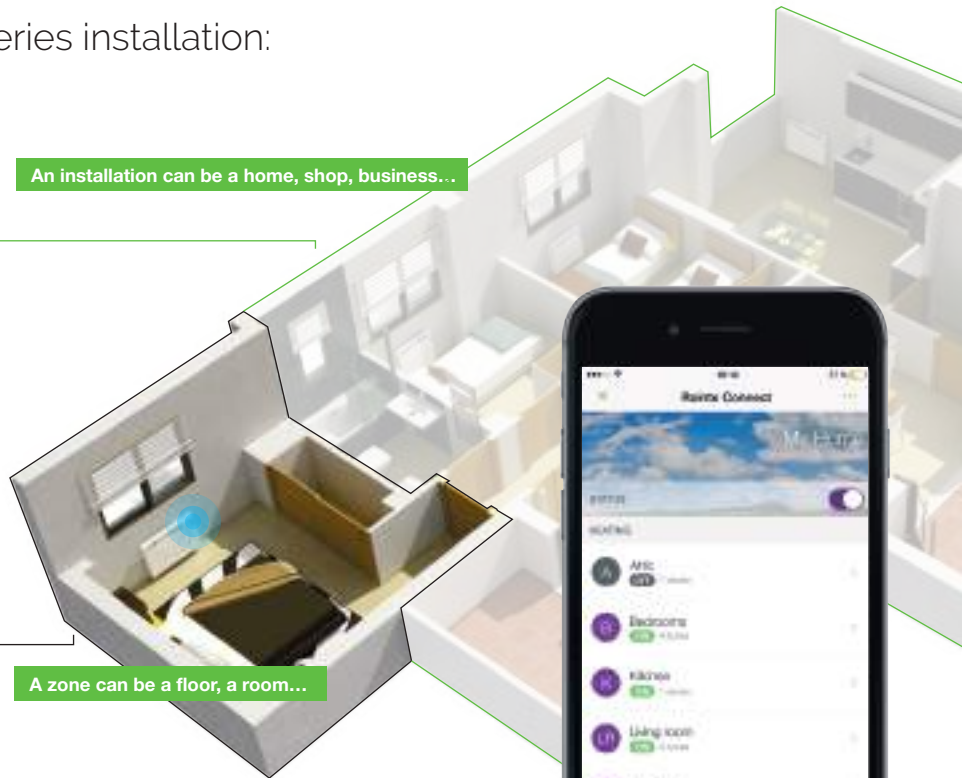
In the same way as with the creation of installations, **zones, subzones and rooms can be created without any limits**, so you can create the structure of the installation to fit your needs.

MANAGEMENT AND CONTROL OF REMOTE DEVICES

Thanks to our **E-Life technology**, you can **control all D Series radiators, towel rails and water heaters from wherever and whenever you like**, as well as the underfloor heating thermostat, Rointe Smart Touch, all through a single application: **Rointe Connect app.**

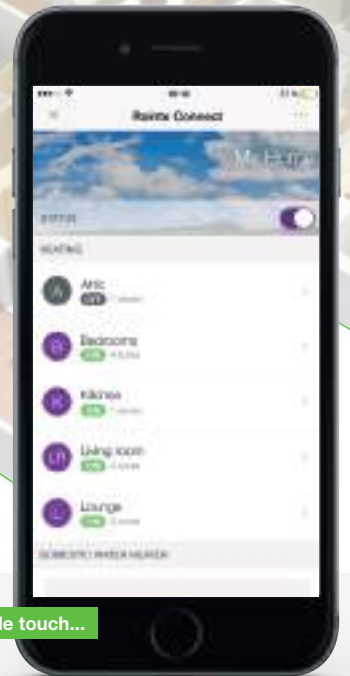


An installation can be a home, shop, business...



A zone can be a floor, a room...

Control with a simple touch...



FUNCTIONALITY

ICONS AND IDENTIFYING COLOURS

The interface of the Rointe Connect app informs you about the usage of the system and the functions that are enabled through different icons and colours.

PROGRAMMING PER INSTALLATION AND PRODUCT

The Rointe Connect app allows you to personalize the programming of the products, zones or subzones 24 hours a day, 7 days a week, using the ECO COMFORT or SLEEP modes or by selecting no programming. It also offers the option of repeating schedules on different days.

TOTAL CONTROL WITH JUST ONE CLICK

The Rointe Connect app allows you to switch between manual and automatic mode, and ECO and COMFORT mode in the simplest way. It even allows you to turn your entire installation on or off with just one click!

CLIMATE AND EXTERNAL TEMPERATURE

The Rointe Connect app quickly displays both the outside temperature and weather where your installation is located, as well as the weather conditions at the current location, allowing you to react to different weather scenarios.

Download free from the **App Store (iOS)** and **Google Play (Android)**.

Available for PC, laptop, tablet and smartphone at www.rointeconnect.com



E-FFFICIENCY

Check the actual consumption and expenditure of the heating in your home or business, **in real time**.

Through E-efficiency you can see in real time from your smartphone, tablet or PC the actual consumption, temperature, expenditure and savings of your connected Rointe D Series heating installation.

At any time and place you can check how much you have spent per day, month or year and how much kW your heating system has consumed.

This data is backed by tests carried out at the Energy and Environment Technology Centre (CETENMA), who certify a 99.7% of accuracy in the data obtained by the True Real Power, the current meter, consumption and data installed in all D Series products and responsible for sending this information to the application.*

* If you wish to know more details, you can request the complete report at www.rointe.eu.



Summary screen at your fingertips...



CHARACTERISTICS

ADVANCED FILTER BY DAY, MONTH AND YEAR

This allows comparison of the information by DAY, MONTH and YEAR, including current as well as previous time frames.

DATA BY ZONES, ROOMS AND PRODUCTS

This shows consumption, cost, temperature and savings by zones, rooms and even products, allowing a more comprehensive overview of the installation.

SPENDING LIMIT

This allows a limit of expenditure in the consumption of electricity of the heating products, sending alerts in the case of exceeding it.

MULTI-RATE MANAGEMENT

To properly adjust to the electricity tariff, Rointe Connect allows you to configure different kWh prices for each hour of the day, being able to adjust to any type of tariff contracted.



Rointe Connect

NEW FEATURES

New **AWAY FROM HOME** mode, smart learning, push notifications, advanced weather prediction, voice control and **COST & CONSUMPTION SUMMARY** screen.



ADVANCED WEATHER FORECAST *

Advanced weather manager so you can know the weather forecast for several days.



AWAY FROM HOME MODE *


The new **outdoor mode** uses the location of your smartphone to **modify the programming and behaviour** of your Rointe products **depending on the distance** you are from home.

It's as easy as selecting whichever phones or tablets you want to use to inform your products when you're at home or away.

How does it work?

The AWAY FROM HOME mode allows you to configure different actions for each smartphone associated with the account that controls the installation. You can configure different actions to suit your lifestyle that will change the products based on the distance of your phone away from home and the weather conditions at that time.

The following table shows an example:

User	Distance	Scene	Condition
Phone 1	10 km	 Work	GOING to work
			RETURN from work

In the example above, a scene called "Work" has been established with two conditions that involve the following two actions:

Condition 1	GOING to work
Action 1	When the connected smartphone is more than 10 km away from home, the radiators in the living room will change to ECO mode at 18°C.
Condition 2	RETURN from work
Action 2	When the connected smartphone is less than 10 km away from home, the radiators in the living room will change to COMFORT mode at 21°C.

SMART LEARNING *

The **new Rointe self-learning system**, allows the products to learn patterns of use and respond to them by adapting its programming and operation to your lifestyle.

In addition, this functionality allows the Rointe Connect app, with programming data, set temperatures, climatic variations and the use of other functionalities, to help save on consumption by sending notifications, warnings and recommendations direct to your smartphone.

ON-SCREEN AND REAL TIME NOTIFICATIONS *

Notifications and alerts on screen to keep you informed about changes and status of your installation.



NEW COST SUMMARY

The cost and consumption of your heating **at a glance**.

It has never been so easy and quick to see the results of running your D Series products.

Thanks to the new “Cost Summary” option, you can control the expense, savings and efficiency of your Rointe D Series heating products.

The “Cost Summary” screen also allows you to view this data by product type, for example radiators, towel rails, water heaters or even our new underfloor heating.

VOICE CONTROL *

Rointe converts the D Series connected range into the first low power electric heating system capable of being controlled by Amazon’s Alexa voice control.

Control with your voice, in the comfort of your home with Amazon Echo and Alexa.

Voice commands

The compatibility between Rointe Connect and Amazon Alexa allows you to control your heating through voice commands, thus controlling all of your installation, zones and products.

With the Alexa voice assistant, there is no need to approach the radiator, towel rail or water heater and the Rointe Connect app is not needed to make any changes to them. Just mention one of the established orders and Alexa will perform the action on the indicated D Series product.

Example	Voice Command
The children’s room is very hot.	“Alexa, lower the temperature of the children’s room by 3 degrees.”
The living room is cold and you have guests at home.	“Alexa, set COMFORT mode in the living room.”

Amazon Echo and Alexa are owned by Amazon EU Srl. Check availability and conditions for your country at www.amazon.com



* Subject to availability and release date.



Fuzzy Logic Energy Control

takes energy optimization to the next level.

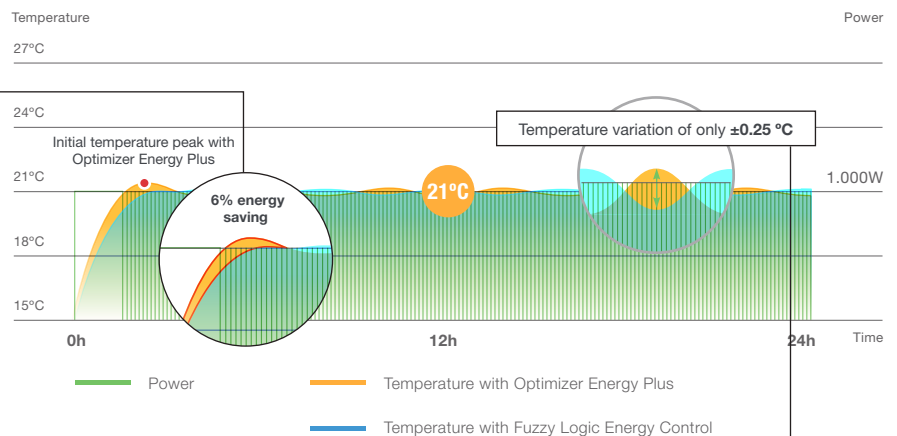
Fuzzy Logic Energy Control is the new low-power technology developed exclusively by Rointe's R+D+I department.

This technology improves the energy management required to maintain a stable temperature, analyzing its variations with an accuracy of $\pm 0.25\text{ }^{\circ}\text{C}$ and sending micro electrons to the heating element that, together with the thermal fluid and the high purity aluminium, transfer the heat to the atmosphere in the most efficient way.

The two main benefits of using Fuzzy Logic Energy Control are:

ENERGY OPTIMIZATION

Fuzzy Logic Energy Control predicts the amount of energy needed at each moment to reach the set temperature. This technology proportionally reduces the energy demand needed to reach the desired temperature, smoothing this initial curve by lowering the peak temperature.



THIS ALLOWS AN EQUIVALENT COEFFICIENT OF CONSUMPTION OF

38%



TEMPERATURE STABILIZATION

Once the room has reached the temperature set in the radiator (in this case, 21°C), the Fuzzy Logic Energy Control technology generates micro cuts in the energy consumption of the heating element to maintain the temperature stable with a thermal variation in the stationary period of only $\pm 0.25\text{ }^{\circ}\text{C}$.

EQUIVALENT RATIO OF CONSUMPTION



WHAT IS IT?

The equivalent coefficient of consumption is a parameter defined by Rointe that is used to **calculate the effective power (or average power of use) of our radiators & water heaters based on their nominal power.**

HOW IS IT OBTAINED?

In a test carried out in an english independent laboratory (BSRIA), a 1,430 W radiator was tested with Optimizer Energy Plus - the first energy optimization technology patented by Rointe.

These tests concluded that to maintain the room at $21\text{ }^{\circ}\text{C}$ with a variation of only $\pm 0.25\text{ }^{\circ}\text{C}$ during a period of 24h, a Rointe radiator needed on average only 572 W, or 40% of its nominal power. **This percentage is what we define as the coefficient of consumption.**

IMPROVING EFFICIENCY WITH FUZZY LOGIC ENERGY CONTROL

To further optimize product consumption, our R+D+I department improved the Optimizer Energy Plus algorithm, giving way to the new Fuzzy Logic Energy Control.

This improvement was tested by a comparative test carried out in the climatic chamber by the Technological Centre of Energy and the Environment between two radiators under the same conditions, one with Optimizer Energy Plus and another with Fuzzy Logic Energy Control. This latest technology showed that it was able to save 6% of energy and **reduce the equivalent coefficient of consumption to 38%.**

$$\text{NOMINAL POWER} \times \text{EQUIVALENT CONSUMPTION RATIO} = \text{EFFECTIVE POWER}$$

ENERGY SAVING FUNCTIONS

Rointe helps you save money.

At Rointe we incorporate in our products special energy saving functions so that our radiators, water heaters and towel rails can optimize energy and save you money.

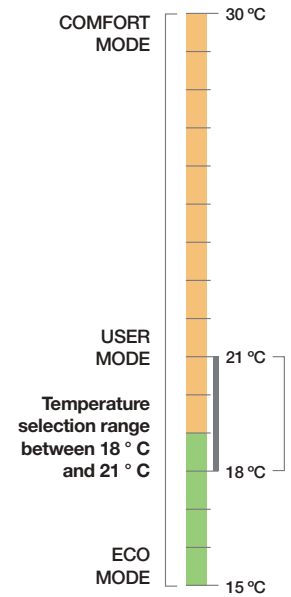


USER MODE

This new function allows you to set a limited range with a minimum and maximum temperature customized for ECO and COMFORT modes.

For example, setting 21°C for the COMFORT mode and 18°C for the ECO mode, the user can only move between the temperatures included within this range.

This is a very useful function in hotels or student residences, since **it restricts the selectable temperatures, avoiding energy waste and guaranteeing the correct use of heating.**



OPEN WINDOWS FUNCTION

Through an advanced algorithm, Rointe radiators anticipate the scenarios which decreases the temperature of a room, for example an open window. When this happens, the heater automatically sets a temperature of 7°C for efficient use and prevents excessive consumption.

ANTI-FROST MODE

This allows you to activate the anti-frost mode at any given time without programming to avoid freezing of the product in extremely cold climates.

BALANCE MODE

This mode, in the D Series radiators, sets a temperature of 19°C by activating manual mode on the product and deactivating any automatic programming entered.

CUSTOMIZATION OF ECO & COMFORT MODES

This function allows you to set the desired temperature for any of the working modes quickly and easily.

KEYPAD LOCK

From the Rointe Connect app, the AIR Control infrared remote control and even from the control panel of the products themselves, you can lock any radiator, towel rail or water heater preventing changes from being made. This is very useful for installation with children and even in hotels, nursing homes or any facility where you want to avoid additional handling of the products.

PILOT WIRE *

The D Series are compatible with the use of a pilot wire controlled thermostat. Once connected, this control panel will operate the COMFORT, ECO and USER modes.

* Available only upon demand.

Conscientious with our world today **and tomorrow.**



Clean and respectful heating.

We can proudly affirm that at Rointe we develop digital electric heating and products with low consumption that are clean, ecological, safe, reliable and mindful of the environment that surrounds us.

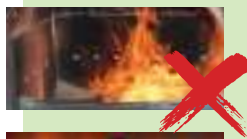
Our products comply with the most demanding manufacturing standards (RoHS) and all existing European safety and quality standards.

Our own Quality Control department and those of external companies, certify the maximum safety, reliability and efficiency of our products.

Having thousands of customers from around the world means also having the responsibility of **creating solutions that take into account the environment, savings and security of people.**

Our heating systems use electricity as the only source to generate heat. This safe and efficient energy **is considered the energy of the future that will displace the use of fossil fuels.**

Our systems are environmentally friendly because:



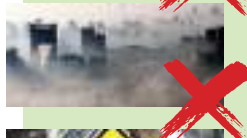
They do not require boilers or combustion tanks, supply pipes or polluted smoke evacuation chimneys.



They do not need to carry out combustion to generate heat and well-being. In addition, they do not emit any type of noise.



They do not require solid, liquid or gaseous polluting fuels, so it is not necessary to store them for use.



They do not emit polluting gases like CO₂ or carbon monoxide or other gases resulting from the burning of fossil fuels during use.



We do not use heavy metals or pollutants such as cadmium or lead, and our heating fluids are biodegradable.



How do the requirements of an **ECOLOGICAL DESIGN** affect the heating sector?

Energy-related products account for a large proportion of the planet's consumption of natural resource and energy, resulting in a high environmental impact.

To reduce the environmental footprint that this sector produces, the directive 2009/125/EC establishes the eco-design requirements for products related to the use of energy.

This directive is developed in particular for heating products, by the regulation 2015/1188, which establishes a classification **system for heating products under the parameters established in these regulations.**

Which products does this regulation apply to?

This standard applies to all household heating products with a heat capacity of less than or equal to 50kW that are commercialised as of January 1st 2018.

This regulation implies that it applies to all heating products using liquid or gaseous fuels, such as **boilers, accumulators, panel heaters, ceramic heaters, infrared heating, latest generation fluid radiators etc.**



Why is it necessary to regulate this type of product?

This regulation aims to organize a market in which information is often blurred, confusing and hidden by government legality. The ecological design of heating products improves the energy efficiency under standard criteria and regulated by regulation common to all European countries.

What advantages does using a Rointe radiator with the best rating in ECO-DESIGN have?

The 2015/1188 regulation requires that the products reach a minimum value called the Seasonal Energy Efficiency Coefficient. This coefficient is obtained starting from an initial value defined in the regulation, to which values are added or subtracted given by factors that increase or decrease the result, depending on the benefits offered. All electric radiators have the same value: 30%. What differentiates the most efficient products from the least efficient is the highest or lowest score obtained in the sum.

The minimum value to be achieved by an electric radiator heating system is 38%. The Rointe radiators obtain a seasonal energy efficiency coefficient of 40%, higher than the minimum required by the LOT20 standard.



Therefore, the latest generation of thermal fluid Rointe radiators are the most efficient solution for heating homes, far exceeding the minimum established in the legislation and providing quality products without any surprises in the consumption at the end of the month.

Rointe Integral Heating System

ELECTRICAL HEATING SOLUTIONS



Radiators
Towel rails
Water heaters

LOW CONSUMPTION





Rointe Integral Digital System

INTEGRATED ELECTRICAL
HEATING SOLUTIONS

The right choice.

Rointe helps you choose the correct integrated heating system for your client.

Not all clients are the same and not all look for the same thing when it comes to installing or changing their heating system. Rointe offers a wide range of products with different characteristics, functionalities and controls.

Rointe's projects and technical studies department

Rointe shares with all its installers and wholesalers the **Rointe Projects Department**, made up of specialized engineers, who are personally responsible for calculating the number of elements required for each installation, according to the user heating needs.

With this service, we make it possible for our customers to **carry out complete technical studies** with consumption comparisons that help them when presenting their Rointe installation services to any user.





D Series · Premium range ★★★★★			SYGMA · Basic range ★★☆☆☆		
RADIATORS	TOWEL RAILS	WATER HEATERS	RADIATORS	TOWEL RAILS	WATER HEATERS

Design

Colours & finishes available	○ White RAL 9016 ● Graphite ○ RAL Colours	○ White RAL 9016 ● Chrome ● Graphite ○ RAL Colours	○ White RAL 9016	○ White RAL 9010	○ White RAL 9016 ● Chrome	○ White RAL 9016
Format	Regular	Curved with flat bars	Square (50-100L) & cylindrical (150 & 200 L)	Regular & short	Curved with tube bars	Square (50-100L) & cylindrical (150 & 200 L)
Distribution	Odd (3 to 15 elements)	4 models (300, 450, 600 & 750 W)	5 models (50, 75, 100, 150 & 200 L)	Regular - Odd (3 to 15 elements) Short - Odd (11 to 15 elements)	4 models (300, 500, 750 & 1,000 W)	5 models (50, 75, 100, 150 & 200 L)

Comfort

Heat dissipation	✓ Natural convection	✓ Radiation	-	✓ Natural convection	✓ Radiation	-
Body material	Aluminium	Steel	Enamelled metal	Aluminium	Steel	Enamelled metal
Control panel material	Aluminium	Fireproof PC/ABS plastic	Fireproof PC/ABS plastic	Fireproof PC/ABS plastic	Fireproof PC/ABS plastic	Fireproof PC/ABS plastic

Technology

Low consumption technology		-			-	
Control panel	Touch keypad	Touch keypad	Touch keypad	Mechanical keypad	Mechanical keypad	Touch keypad
True Real Power - smart data consumption meter	✓	✓	✓	-	-	-

Control and connectivity

Menu control	✓	✓	✓	-	-	-
Infrared remote control	✓	✓	✓	✓	✓	✓
E-Life technology - automated platform				-	-	-
Wi-Fi remote control				-	-	-
Efficiency: costs & consumption control	✓	✓	✓	-	-	-
Rointe Connect app/ remote control	<ul style="list-style-type: none"> • Rointe Connect app • Air Control White remote • Air Control Soft Touch Black remote 			<ul style="list-style-type: none"> • Air Control White remote • Air Control Soft Touch Black remote • Basic Control remote 		

Efficiency

User Mode & 24/7 programming	✓	✓	✓	✓	✓	✓
USER Mode	✓	✓	✓	-	-	-
Open windows function	✓	✓	✓	✓	✓	✓
Trade price (T.P.) from	459 €	578 €	574 €	300 €	261 €	416 €

Radiators

ROINTE



Comfort solutions in heating

LOW CONSUMPTION RADIATORS



DESIGN

Low consumption radiators with and without front vent.



D Series
3 to 15 elements



D Series - Graphite
3 to 15 elements



SYGMA
3 to 15 elements



STYLE

Two heights to adapt to all types of installations.



Regular
580 mm



Short
420 mm

Available only in the SYGMA range

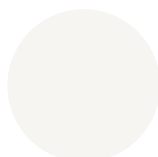


FINISHES

Unique colours and textures for all tastes.



White
RAL 9010



White
RAL 9016



Graphite
Forge effect



Colour it!
RAL Colour range

SYGMA radiators

D Series radiators

Rointe radiators,

the perfect solution.

Rointe radiators are designed to offer maximum comfort to those clients who install them in their home or business. The careful choice of its components allows us to generate the perfect balance between efficiency and well-being. This balance is achieved by combining the highest quality materials with the most advanced technology on the market. Making Rointe radiators the ideal product to heat any space.

COMFORT

ALUMINIUM

With a thermal conductivity of 209W/(m*k) it is the metal with the **best price/conductivity ratio** on the market. This feature and the design developed with interior fins favour the circulation of air through the radiator cavities.

THERMAL FLUID

The fluid used in the radiators is an exclusive high heat transfer mineral oil. Its high thermal stability combined with the usual working temperatures of the product means **no risk of corrosion while maintaining the thermal conductivity.**

HEATING ELEMENT WITH 110W PER ELEMENT

The heat generating element is an electrical steel resistor that transforms the electrical energy into heat efficiently and evenly. This permits the extension of its working life, since the **balance between power and element makes sure that the inner thread does not suffer thermal stress.**

AMBIENT TEMPERATURE STABILITY

Due to the use of heat transfer by natural air convection, the air is introduced into the product at the bottom part of the radiator and raises its temperature by passing through the interior of the element, which allows **the temperature of the room to be constant with a small derivation of ± 0.25 °C.**

DESIGN

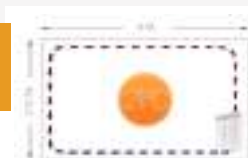
SCREEN WITH COLOUR CHANGE

The Rointe D Series radiators incorporate a TFT screen of 160x128 pixels, which allows personalization and colour change on the screen.

Our D Series radiators are the only ones in the market that include this option, allowing you to combine colours of the screen with the décor in each home. For larger projects, there is even the possibility of personalizing the welcome screen with the customer's logo.



The natural convection reaches up to 5 meters away and 2.7 meters in height.



EFFICIENCY

ECODESIGN 20/20/20

Rointe radiators meet the efficiency requirements of the new European energy regulation LOT20. [See more on page 19.](#)

SMART LEARNING

An algorithm is installed in the electronics that stores parameters which the radiator registers during its use to learn the habits of the client. [See more on page 14.](#)



ENERGY SAVING FEATURES

THE ENERGY SMART HEATING

Independent laboratories have demonstrated that Rointe radiators, under normal conditions, only consume 38% of their nominal power. This indicates that if we size our radiators properly with respect to the m² and the climatic zone of our house or business, the expected consumption will be reflected accordingly.

[Learn more about correct sizing on page 68.](#)

REAL CONSUMPTION METER

Our radiators incorporate a real consumption meter that allows you to know, from the product itself or from the control application, the energy consumption of the products and translate it into pounds.

USER MODE

This mode sets an operating temperature that is password locked. Thus, in public buildings such as hotels the owner ensures that users cannot change the set temperature.

OPEN WINDOWS FUNCTION

This function permits the radiator to disconnect if it detects a 4°C decrease in the temperature over a 30 minute time period. Thus avoiding the waste of energy in case a window is left open.

SECURITY

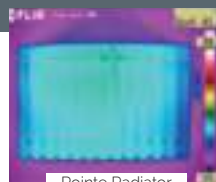


10 YEARS GUARANTEE CERTIFIED

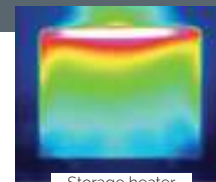
The radiators have a 10 year guarantee on the aluminium body and a 2 year guarantee on the electronics, and they comply with all regulations for heating products internationally.

SURGE PROTECTION

The electronics have surge protection systems to protect against unexpected voltage spikes.



Rointe Radiator



Storage heater

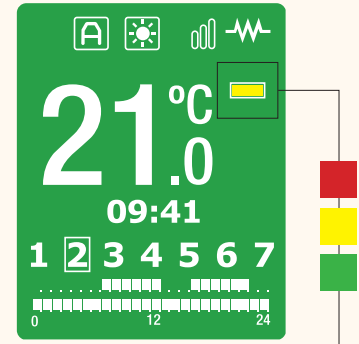


Other radiators

SURFACE TEMPERATURE 43°C

Due to the balance between heating element, fluid and aluminium, the surface temperature of our product, once it reaches the steady working rate, does not exceed 43°C, which is distributed evenly throughout the radiator surface.

In other products, temperature gradients occur between different parts of the product causing a variability in the surface temperature with the consequent risk of burns.



EFFICIENCY INDICATOR

Rointe D Series radiators incorporate an option to verify the efficient use of the product. Depending on the consumption, the product will change the colour of its screen: green if the product is optimal, yellow if it exceeds normal consumption limits and red if the product is working well above the estimated consumption for this product.

In addition, an indicator has been included in the upper right corner of the main screen that indicates the consumption of the product according to the set temperature.

According to European recommendations, reducing one degree of heating can lead to a decrease in consumption of 8%.

With this indicator, Rointe alerts the client and helps to make more efficient use of the heating, which can increase energy savings.



D Series

LOW CONSUMPTION
DIGITAL CONNECTED
RADIATOR

AVAILABLE FINISHES

- White RAL 9016
- Graphite
- RAL Colours

CHARACTERISTICS

LOW CONSUMPTION



It includes **Fuzzy Logic Energy Control**, technology that analyse & predict the necessary energy to keep temperature steady, allowing us to obtain a **non-consumption coefficient of up to 62%** of the product nominal power.*

INTEGRATED CONNECTIVITY



Integrated **Wi-Fi & home automation technology** via the E-Life platform.

CONTROL OF CONSUMPTION AND COSTS



"True Real Power" consumption meter which allows you to obtain **statistics of the real energy consumption and costs**.



Rointe D Series system

- 100% aluminium body and closures** designed exclusively for Rointe under the strictest parameters.
- Special heat transfer fluid** which is exclusive to Rointe with a high calorific inertia and excellent heat transfer.
- Each element has 110W** which ensures the maximum comfort with the most balanced consumption.

Electronics & functionality

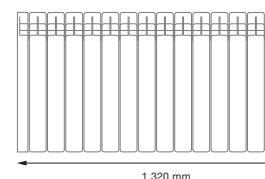
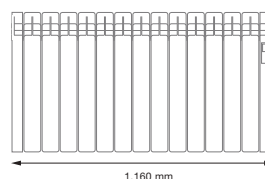
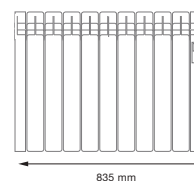
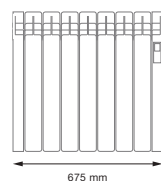
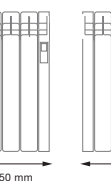
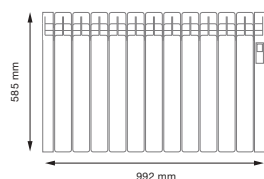
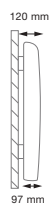
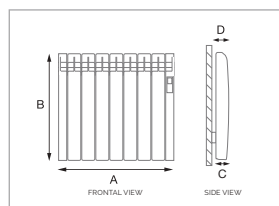


- 2 circuit boards with SMD technology**, lithium battery and Triac.
- 1.77" TFT display** with the background colour user adjustable via the app.
- Highly sensitive touch control panel**.
 - Open Windows energy saving function.
 - New USER mode**: lets you restrict the range of temperatures available in the ECO and COMFORT modes.

More on page 17.



Dimensions



MODELS	WHITE	DEW0330RAD	DEW0550RAD	DEW0770RAD	DEW0990RAD	DEW1210RAD	DEW1430RAD	DEW1600RAD
	GRAPHITE	DEB0330RAD	DEB0550RAD	DEB0770RAD	DEB0990RAD	DEB1210RAD	DEB1430RAD	DEB1600RAD
	RAL COLOUR	DER0330RAD	DER0550RAD	DER0770RAD	DER0990RAD	DER1210RAD	DER1430RAD	DER1600RAD
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		●	●	●	●	●	●	●
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 / Anti-frost Modes		●	●	●	●	●	●	●
New User mode		●	●	●	●	●	●	●
Manual / Automatic function		●	●	●	●	●	●	●
Personalizable screen colour		●	●	●	●	●	●	●
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)**		43 °C	43 °C	43 °C	43 °C	43 °C	43 °C	43 °C
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	8436045912114	8436045912121	8436045912138	8436045912145	8436045912190	8436045912206	8436045912213
	GRAPHITE	8436045912220	8436045912275	8436045912282	8436045912299	8436045912305	8436045912350	8436045912367
	RAL COLOUR	8436045912374 -xxxx***	8436045912381 -xxxx***	8436045912398 -xxxx***	8436045911414 -xxxx***	8436045911421 -xxxx***	8436045911438 -xxxx***	8436045911445 -xxxx***
T.P.	WHITE	459 €	582 €	727 €	830 €	923 €	1.019 €	1.138 €
	GRAPHITE	487 €	617 €	770 €	880 €	978 €	1.080 €	1.206 €
	RAL COLOUR	563 €	745 €	950 €	1.112 €	1.261 €	1.417 €	1.594 €

* The effective power of the D Series radiators is only 38%. This value has been obtained in tests performed by independent technology centres in a climatic chamber, by comparing two Rointe radiators, under the same parameters; one with Fuzzy Logic Energy Control and another with Optimizer Energy Plus (the first technology patented by our company that allowed to obtain a power 40% of the nominal power of the products in which it was installed). In this comparison, we observed a consumption difference of 6.3%, which reduces the effective power obtained with the previous technology Optimizer Energy Plus, allowing us to deduce that the use of the new technology Fuzzy Logic Energy Control reduces the effective power of the radiators up to 38%. ** Average surface temperature obtained with the radiator temperature set at 21 °C. *** The last 4 digits of the EAN code correspond to the numerical code of the desired RAL finish. Letter and RAL codes available on page 109.



INFRARED

SYGMA

LOW CONSUMPTION
DIGITAL RADIATOR



AVAILABLE FINISHES

● White RAL 9010

CHARACTERISTICS



LOW CONSUMPTION

It includes **Optimizer Energy Plus**, energy optimizing technology patented by Rointe that allow us to obtain a **non-consumption coefficient of up to 60%** of the nominal power of the product.*



PRE-INSTALLED PROGRAMS

Compatible with BASIC Control **pre-installed programs** (optional).

See more on page 62.



INFRARED CONNECTIVITY - SEND AND RECEIVE

AIR Control & BASIC Control IR remote controls available (optional).

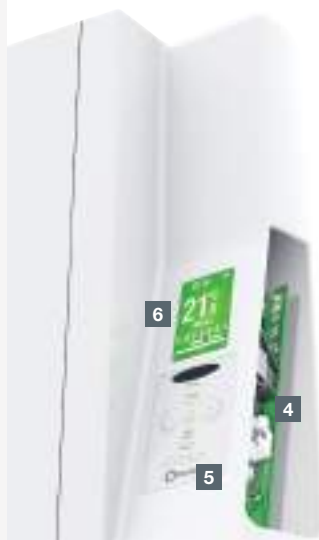


Rointe SYGMA System

- 1 100% aluminium body designed with fluid dynamics.** Flame-proof polycarbonate closures PC/ABS.
- 2 Special heat transfer fluid** exclusive to Rointe with a high calorific inertia and excellent heat transfer.
- 3 Each element has 110W** which assures the maximum comfort with the most balanced consumption.

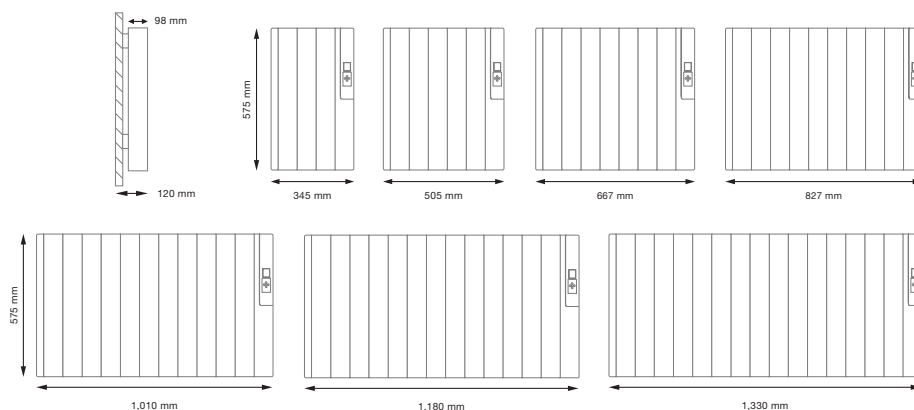
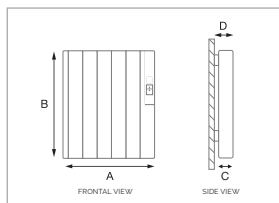
Electronics & functionality

- 1 circuit with SMD technology,** lithium battery and Triac.
- 1.77" TFT Screen.**
- Mechanical control panel.**
 - **Open Windows** energy saving function.





Dimensions



MODELS	SRE0330RAD2	SRE0550RAD2	SRE0770RAD2	SRE0990RAD2	SRE1210RAD2	SRE1430RAD2	SRE1600RAD2
N° of elements	3	5	7	9	11	13	15
DIMENSIONS							
A (mm) - Width	345	505	667	827	1,010	1,180	1,330
B (mm) - Height	575	575	575	575	575	575	575
C (mm) - Depth	98	98	98	98	98	98	98
D (mm) - Installed depth	120	120	120	120	120	120	120
MECHANICAL CHARACTERISTICS							
Armoured steel heating element	●	●	●	●	●	●	●
High purity aluminium	●	●	●	●	●	●	●
Thermal oil	●	●	●	●	●	●	●
PC/ABS panel with keypad	●	●	●	●	●	●	●
Left side cover PC/ABS	●	●	●	●	●	●	●
Weight (Kg)	8	12	16	20	24	28	32
Finish	White RAL 9010						
ELECTRICAL CHARACTERISTICS							
Nominal power (W)	330	550	770	990	1,210	1,430	1,600
Effective power (W)*	132	220	308	396	484	572	640
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")	●	●	●	●	●	●	●
Manual / Automatic function	●	●	●	●	●	●	●
Eco / Comfort / Anti-frost mode	●	●	●	●	●	●	●
Open windows function	●	●	●	●	●	●	●
Screen brightness control	●	●	●	●	●	●	●
Nominal and effective power	●	●	●	●	●	●	●
Programmable 24/7 using keyboard and/or BASIC Control	●	●	●	●	●	●	●
Compatible with BASIC Control pre-installed programming	●	●	●	●	●	●	●
PERFORMANCE AND SECURITY							
Optimizer Energy Plus	●	●	●	●	●	●	●
Roimte ULP4 Microcontroller	●	●	●	●	●	●	●
Wireless communication	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 the steady period (°C)**	43 °C	43 °C	43 °C	43 °C	43 °C	43 °C	43 °C
Protection grade	IP21	IP21	IP21	IP21	IP21	IP21	IP21
INSTALLATION							
Template & Installation kit	●	●	●	●	●	●	●
CERTIFICATIONS							
2004/108/CE Electromagnetic Compatibility	●	●	●	●	●	●	●
2006/95/CE Electronic Security	●	●	●	●	●	●	●
EAN CODE	8436045911889	8436045911896	8436045911902	8436045911919	8436045911469	8436045911476	8436045911483
T.P.	300 €	379 €	474 €	541 €	601 €	665 €	743 €

* In tests conducted by independent laboratories, heating was simulated in a 12 m² climatic chamber, under pre-set parameters and at a set temperature of 21°C. Once these tests were complete, we obtained an average power usage of only 40% of the nominal power. This is what we define as equivalent ratio of consumption. If we multiply the nominal power and the equivalent ratio of consumption we obtain what we call effective power. ** Average surface temperature obtained with the radiator temperature set to 21°C.



INFRARED

SYGMA short

LOW CONSUMPTION
RADIATOR DESIGNED FOR
UNDER WINDOWS

AVAILABLE FINISHES

● White RAL 9010

CHARACTERISTICS



LOW CONSUMPTION

It includes **Optimizer Energy Plus**, energy optimizing technology patented by Rointe that allow us to obtain a **non-consumption coefficient of up to 60%** of the nominal power of the product.*



PRE-INSTALLED PROGRAMS

Compatible with BASIC Control **pre-installed programs** (optional).

See more on page 62.



INFRARED CONNECTIVITY - SEND AND RECEIVE

AIR Control & BASIC Control IR remote controls available (optional).

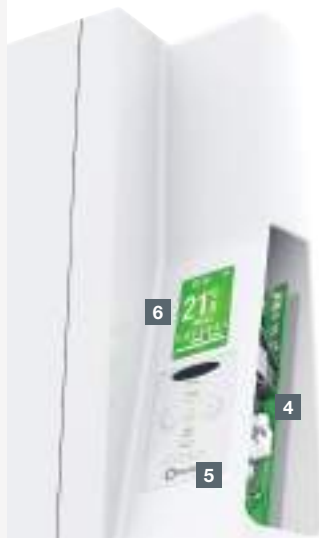


Rointe SYGMA System

- 1 100% aluminium body designed with fluid dynamics.** Flame-proof polycarbonate closures PC/ABS.
- 2 Special heat transfer fluid** exclusive to Rointe with a high calorific inertia and excellent heat transfer.
- 3 Each element has 100W** which assures the maximum comfort with the most balanced consumption.

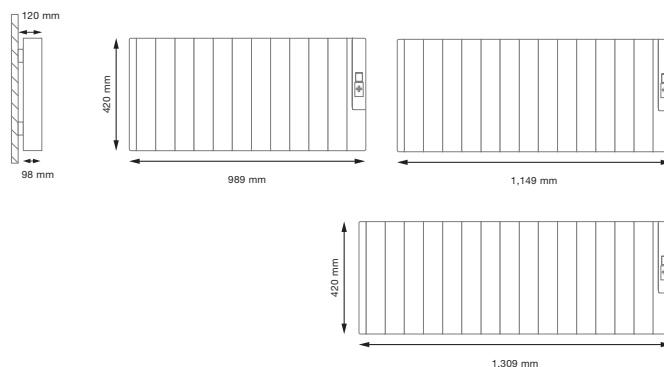
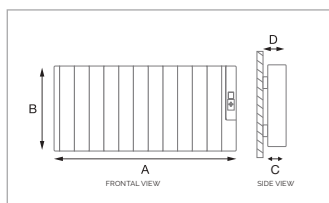
Electronics & functionality

- 4 1 circuit with SMD technology,** lithium battery and Triac.
- 5 1.77" TFT Screen.**
- 6 Mechanical control panel.**
 - **Open Windows** energy saving function.





Dimensions



MODELS	SRE1100RADC2	SRE1300RADC2	SRE1500RADC2
N° of elements	11	13	15
DIMENSIONS			
A (mm) - Width	989	1,149	1,309
B (mm) - Height	420	420	420
C (mm) - Depth	98	98	98
D (mm) - Installed depth	120	120	120
MECHANICAL CHARACTERISTICS			
Armoured steel heating element	●	●	●
High purity aluminium	●	●	●
Thermal oil	●	●	●
PC/ABS panel with keypad	●	●	●
Both sides cover PC/ABS	●	●	●
Weight (Kg)	17.9	21.4	24.8
Weight with packaging (Kg)	19.3	22.5	25.9
Finish	Blanco RAL 9010		
ELECTRICAL CHARACTERISTICS			
Nominal power (W)	1,100	1,300	1,500
Voltage (V)	230 V ~	230 V ~	230 V ~
Current (A)	4.6	5.7	6.5
FUNCTIONALITY			
TFT screen (1.77")	●	●	●
Manual / Automatic function	●	●	●
Eco / Comfort / Anti-frost mode	●	●	●
Open windows function	●	●	●
Screen brightness control	●	●	●
Nominal and effective power	●	●	●
Programmable 24/7 using keyboard. AIR Control or BASIC Control	●	●	●
Compatible with BASIC Control pre-installed programming	●	●	●
PERFORMANCE AND SECURITY			
Optimizer Energy Plus	●	●	●
Rointe ULP4 Microcontroller	●	●	●
Wireless communications	Two-way infrared		
Temperature stability (°C)	±0.25	±0.25	±0.25
Air velocity (m/s)	< 0.1	< 0.1	< 0.1
Power per element (W/element)	100	100	100
Safety thermostat	●	●	●
Average surface temp. during the steady period (°C)**	43 °C	43 °C	43 °C
Protection grade	IP21	IP21	IP21
INSTALLATION			
Template & Installation kit	●	●	●
CERTIFICATIONS			
2004/108/CE Electromagnetic Compatibility	●	●	●
2006/95/CE Electronic Security	●	●	●
EAN CODE	8436045914231	8436045914248	8436045914255
T.P.	557 €	615 €	687 €

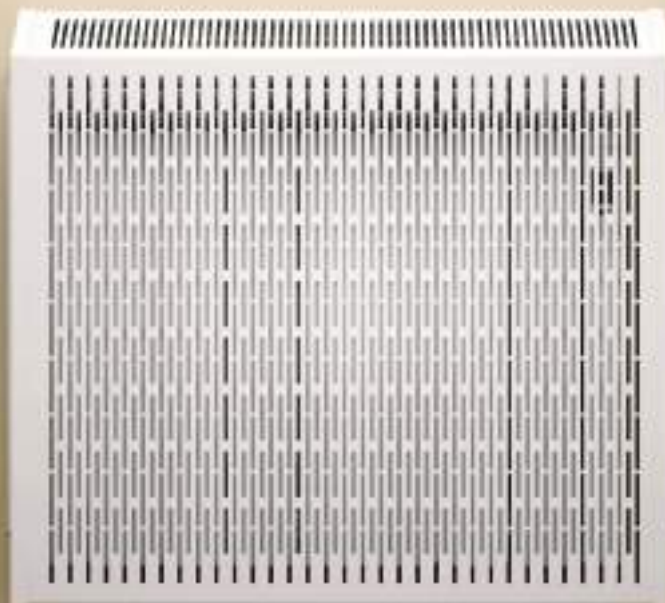
* Average surface temperature obtained with the radiator temperature set to 21°C.



Accessories

PROTECTIVE GRILLS

LOW CONSUMPTION
DIGITAL RADIATOR



AVAILABLE FINISHES



White RAL 9010



Graphite

This protection system has been designed exclusively for the Rointe digital electric radiators. With these grills no-one can come into contact with the surface of the radiators and it also eliminates the risk of any strange objects being introduced into the radiators. Their installation is recommended in areas such as nurseries, schools, homes for the elderly etc.

CASE STUDY

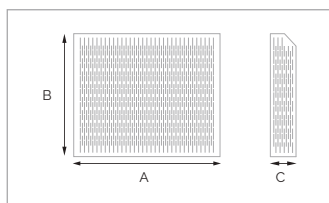
ST. COLUMBA'S RESIDENCE

The Rointe radiator protection grills have been successfully installed in St. Columba's Scottish nursing home to protect residents from possible incidents.

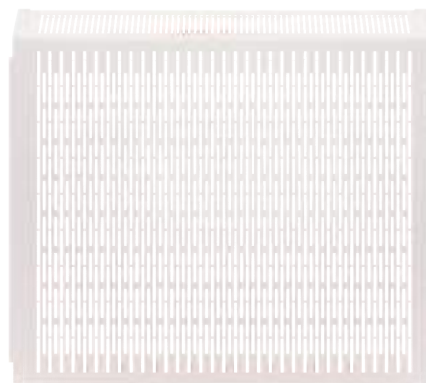




Dimensions



***The installation of the protection grill prevents access to the control panel.**
To have full control of your radiator with protective grill use any of the remote controls.



D SERIES

Protective grill for D Series radiators

MODELS	WHITE	RPDW0550	RPDW0770	RPDW0990	RPDW1210	RPDW1430	RPDW1600
	GRAPHITE	RPDB0550	RPDB0770	RPDB0990	RPDB1210	RPDB1430	RPDB1600
Compatible with		DEW0550RAD DEW0330RAD	DEW0770RAD	DEW0990RAD	DEW1210RAD	DEW1430RAD	DEW1600RAD
		DEB0550RAD DEB0330RAD	DEB0770RAD	DEB0990RAD	DEB1210RAD	DEB1430RAD	DEB1600RAD
DIMENSIONS							
A (mm) - Width		600	760	920	1,090	1,260	1,410
B (mm) - Height		660	660	660	660	660	660
C (mm) - Depth		150	150	150	150	150	150
MECHANICAL CHARACTERISTICS							
Weight (Kg)		8.1	9	10.6	11.8	13.1	14.4
Finishes		White RAL 9010 / Graphite forge effect					
EAN CODE	WHITE	8436045916730	8436045916747	8436045916754	8436045916761	8436045916778	8436045916785
	GRAPHITE	8436045916808	8436045916808	8436045916822	8436045916822	8436045916846	8436045916853
T.P.	WHITE	126 €	139 €	153 €	170 €	186 €	189 €
	GRAPHITE	134 €	147 €	163 €	180 €	197 €	200 €

SYGMA

Protective grill for SYGMA radiators

MODELS	RPK0550	RPK0770	RPK0990	RPK1210	RPK1430	RPK1600
Compatible with	SRE0550RAD2 SRE0330RAD2	SRE0770RAD2	SRE0990RAD2	SRE1210RAD2	SRE1430RAD2	SRE1600RAD2
DIMENSIONS						
A (mm) - Width	600	760	920	1,090	1,260	1,410
B (mm) - Height	660	660	660	660	660	660
C (mm) - Depth	150	150	150	150	150	150
MECHANICAL CHARACTERISTICS						
Weight (Kg)	8.1	9	10.6	11.8	13.1	14.4
Finish	White RAL 9010					
EAN CODE	8436045910615	8436045910622	8436045910639	8436045910646	8436045910653	8436045910660
T.P.	105 €	116 €	127 €	142 €	155 €	157 €

SYGMA CONSERVATORY

Protective grill for SYGMA Short radiators

MODELS	RP1100	RP1300	RP1500
Compatible with	SRE1100RADC2	SRE1300RADC2	SRE1500RADC2
DIMENSIONS			
A (mm) - Width	1,090	1,260	1,410
B (mm) - Height	500	500	500
C (mm) - Depth	150	150	150
MECHANICAL CHARACTERISTICS			
Weight (Kg)	10.8	12.1	13.4
Finish	White RAL 9010		
EAN CODE	8436045915955	8436045915962	8436045915974
T.P.	130 €	143 €	156 €

Towel rails

ROINTE



Comfort solutions for bathrooms

DIGITAL TOWEL RAIL RANGES



DESIGN

Slightly curved or straight digital electric towel rails with flat or tubular slats.



D Series
300, 450, 600 &
750 W



SYGMA
300, 500, 750 &
1.000 W



FINISHES

Unique colours and textures for all tastes.



White
RAL 9016



Chrome
polished



Graphite
Forge effect



Colour it!
RAL Colour range

SYGMA towel rails

D Series towel rails

Rointe towel rails

your versatile solution for all types of bathrooms.

Rointe presents the largest towel rail range on the market, with different wattages and finishes, allowing the installation of the most suitable product for your bathroom, providing a touch of elegance and the best comfort.

In addition, the towel rail hangers make it easy for your towels to always be warm when you step out of the shower.



DESIGN

ELEGANCE AND STYLE

Rointe towel rails are made of 1.5mm thick steel and are designed exclusively with elegant and harmonic lines, which gives them a high degree of distinction compared to other standard towel rails on the market.

It is designed so that its installation does not break the aesthetics of the bathroom while providing the luxury of having the towels always warm.

CUSTOMIZABLE BACKGROUND COLOUR

The electronics that the Rointe towel rails contain allows us to adapt the colour of the screen to the style of the bathroom and to modify it as and when needed.

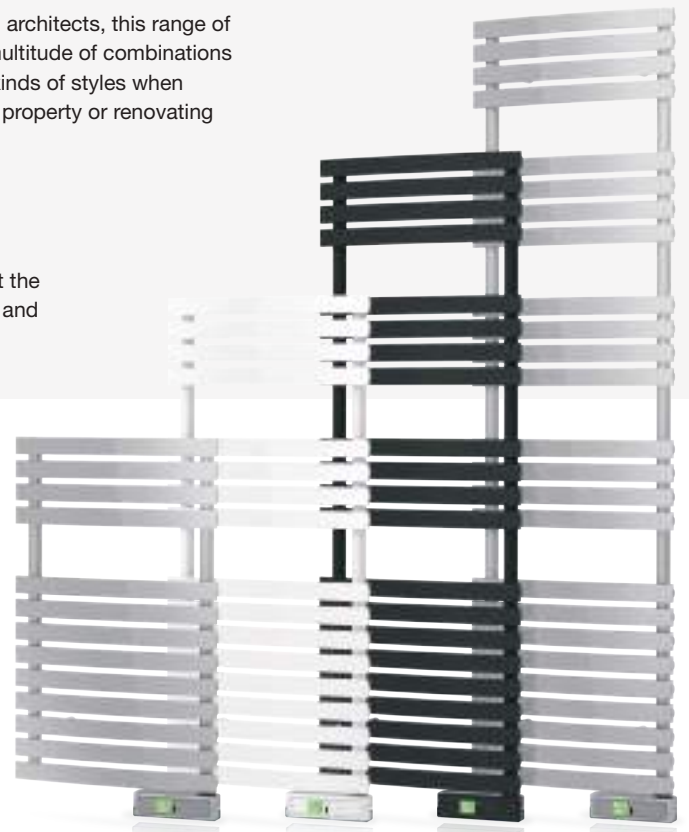
WIDE RANGES FINISHES

Rointe presents three different finishes for its towel rails: white RAL 9016, chrome and graphite forge effect, which allows the client to pick the finish that they want and fits with the style of the bathroom where it will be installed.

For designers and architects, this range of finishes offers a multitude of combinations that fit in with all kinds of styles when developing a new property or renovating an old one.

DIFFERENT HEIGHTS

The Rointe towel rail range is the widest in the market, with the towel rail height ranging from 800 mm to 1,800 mm. This allows us to adequately calculate the dimensions of the product needed as per the space available in the bathroom.



COMPATIBLE ACCESSORIES

Rointe also offers towel racks and hangers that help to increase the drying capacity of the towel rails.

The towel racks provide extra space to hang up to 3 more towels, making it ideal for larger families where the towel rail may become crowded.

The towel hangers are the perfect choice when the client wants to hang their bathrobe, leaving the bars of the towel rail free.

COMFORT

SAVINGS FUNCTION

As in our range of radiators, Rointe towel rails incorporate the OPEN WINDOWS feature that allows the product to disconnect itself if it detects a 4°C drop in the room temperature within 30 minutes.

BOOST FUNCTION

This function allows the towel rail to operate in a continuous mode for 15 minutes, 30 minutes, 1 hour or 2 hours, providing constant heat without any regards for the thermostat reading.



INTERACTIVE MENUS

Rointe D Series towel rails incorporate an interactive keypad so the user can access all functions and programme the product easily.



EASY INSTALLATION WITH TEMPLATE & SUPPORT WALL BRACKETS INCLUDED

All Rointe towel rails and radiators incorporate a mounting template to make the installation of the product as easy as possible.

In addition, the brackets, screws and wall plugs are included so that the installer does not have to worry about anything and can produce a perfect installation, key for the correct operation of the product.

UNIFORM SURFACE TEMPERATURE

The electrical heating elements used in the Rointe towel rails have a longer length, which provides a uniform heat and even drying of towels.



SECURITY

CLASS II

Class II 

Rointe towel rails are classified as a Class II product, which means that they have double insulation in all of their components and therefore do not require grounding.

Providing the maximum security to the user is the fundamental pillar in the manufacturing of our towel rails.

FIREPROOF PLASTIC

The Rointe towel rail control panel is made of fire-retardant polycarbonate and with additives that prevent colour degradation.



IP44

All Rointe towel rails have a protection grade of IP44 meaning that they are protected against dust particles smaller than 1mm and against water splash.

BIODEGRADABLE THERMAL FLUID

The interior thermal fluid of the Rointe towel rails are specifically formulated to provide the maximum heat transfer in a product with circular conductivity, where the viscosity of the liquid is key to turbulent flow and hence a higher heat transfer.

10 YEAR GUARANTEE



The towel rails have a 10 year guarantee on the body of the unit and a 2 year guarantee on the electronic components and comply with all national and international regulations for heating products.

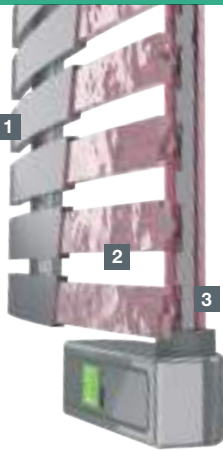
AVAILABLE FINISHES

- White RAL 9016
- Graphite
- RAL Colours*
- Chrome



D Series

DIGITAL CONNECTED
TOWEL RAILS



Rointe D Series system

- ST12 steel body** with a slightly curved design.
- Special heat transfer fluid** which is exclusive to Rointe and with a high calorific inertia and excellent heat transfer.
- Armoured steel heating element** duly thermally compensated.



CHARACTERISTICS



THERMAL COMFORT

Enjoy the well-being and comfort in your bathroom with towels that are always dry thanks to our towel rails.



INTEGRATED AUTOMATION TECHNOLOGY

Wi-Fi and automated control via E-Life technology platform.



COSTS AND CONSUMPTION CONTROL

"True Real Power" consumption meter which allows you to obtain **statistics of the real energy consumption and costs**.

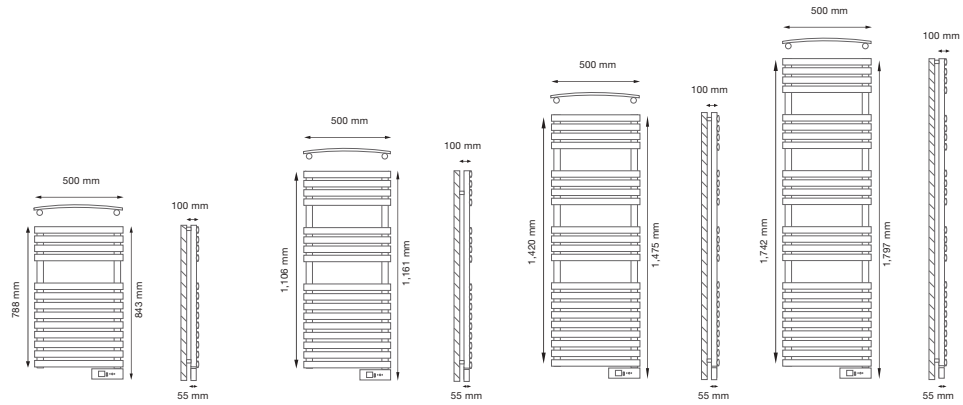
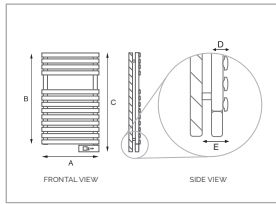


Electronics & functionality

- 2 circuits with SMD technology** and lithium battery.
- 1.77" TFT display** with the background colour user-adjustable via the app.
- Highly sensitive touch control panel.**
 - **Open Windows** energy saving function.
 - **Boost Function:** Constant heat for 15, 30, 60 or 120 minutes.
 - **New USER Mode.** [More on page 17.](#)



Dimensions



MODELS	WHITE	DTE030SEW	DTE045SEW	DTE060SEW	DTE075SEW
	GRAPHITE	DTE030SEB	DTE045SEB	DTE060SEB	DTE075SEB
	RAL COLOUR	DTE030SER	DTE045SER	DTE060SER	DTE075SER
	CHROME	DTE030SEC	DTE045SEC	DTE060SEC	DTE075SEC
DIMENSIONS					
A (mm) - Width		500	500	500	500
B (mm) - Height without control panel		788	1,106	1,420	1,742
C (mm) - Height with control panel		843	1,161	1,475	1,797
D (mm) - Depth		55	55	55	55
E (mm) - Installed depth		100	100	100	100
MECHANICAL CHARACTERISTICS					
Armoured steel heating element		●	●	●	●
Thermal fluid		●	●	●	●
PC/ABS control panel with touch keyboard		●	●	●	●
Weight (Kg)		13	17	21	25
Finishes	White RAL 9016 / Graphite Forge Effect / RAL colour / Chrome				
Design	Slightly Curved				
ELECTRICAL CHARACTERISTICS					
Nominal power (W)	White / Graphite / RAL	300	450	600	750
	Chrome	300	300	450	600
Voltage (V)		230 V ~	230 V ~	230 V ~	230 V ~
Current (A)	White / Graphite / RAL	1.30	1.96	2.61	3.26
	Chrome	1.30	1.30	1.96	2.61
Class II heating element		●	●	●	●
FUNCTIONS					
TFT screen (1.77")		●	●	●	●
Manual / Automatic function		●	●	●	●
Eco / Comfort / Anti-frost modes		●	●	●	●
New User mode		●	●	●	●
Open windows function		●	●	●	●
Screen brightness control		●	●	●	●
2 hr boost function		●	●	●	●
Programmable 24/7 using touch pad, Rointe Connect App or AIR Control remote		●	●	●	●
PERFORMANCE AND SECURITY					
E-life Technology & Wi-Fi Inside		●	●	●	●
True Real Power & Rointe ULP32 Microcontroller		●	●	●	●
Wireless communication		WiFi / Two-way infrared			
Fire proof cabling		●	●	●	●
Safety thermostat		●	●	●	●
Protection grade		IP 44	IP 44	IP 44	IP 44
INSTALLATION					
Template		●	●	●	●
Installation kit		●	●	●	●
CERTIFICATIONS					
2004/108/CE Electromagnetic compatibility		●	●	●	●
2006/95/CE Electronic security		●	●	●	●
EAN CODE	WHITE	8436045911452	8436045913265	8436045913272	8436045913289
	GRAPHITE	8436045911582	8436045911636	8436045911643	8436045911650
	RAL COLOUR	8436045911667-xxxx**	8436045911711-xxxx**	8436045911728-xxxx**	8436045911735-xxxx**
	CHROME	8436045913364	8436045911506	8436045911568	8436045911575
T.P.	WHITE	578 €	657 €	716 €	772 €
	GRAPHITE	669 €	814 €	912 €	986 €
	RAL COLOUR	719 €	864 €	962 €	1.036 €
	CHROME	761 €	924 €	1.072 €	1.195 €

* The last 4 digits of the EAN code corresponds to the desired RAL colour code. Colour chart available on page 109. For any question about the RAL colour finishes please contact us.

SYGMA

DIGITAL
TOWEL RAILS

AVAILABLE FINISHES

- White RAL 9016
- Chrome

CHARACTERISTICS



THERMAL COMFORT

Enjoy the well-being and comfort in your bathroom with towels that are always dry thanks to our towel rails.



PRE-INSTALLED PROGRAMS

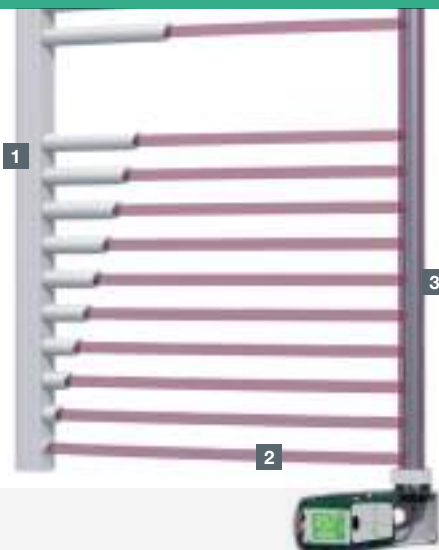
Compatible with BASIC Control **pre-installed programs** (optional).

See more on page 62.



INFRARED CONNECTIVITY - SEND AND RECEIVE

AIR Control & BASIC Control IR remote controls available (optional).



Rointe SYGMA system

- 1 ST12 steel body** with a curve design.
- 2 Special heat transfer fluid** which is exclusive to Rointe with a high calorific inertia and excellent heat transfer.
- 3 Armoured steel heating element** duly thermally compensated.

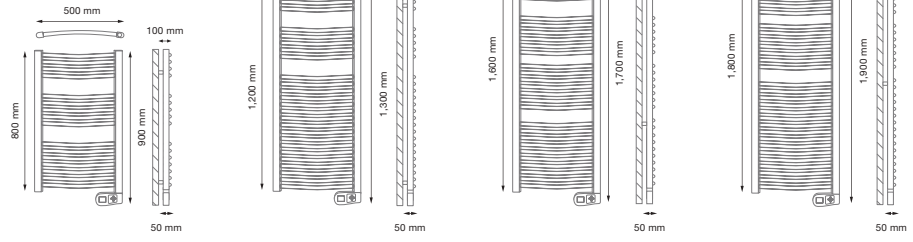
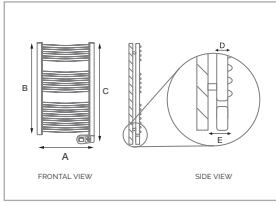
Electrónica y funcionalidad

- 1 circuit with SMD technology** and lithium battery.
- 1.77" TFT display.**
- Mechanical control panel.**
 - **Open Windows** energy saving function.
 - **Boost Function:** Constant heat for 15, 30, 60 or 120 minutes.





Dimensions



MODELS	WHITE	STE030SEB2	STE050SEB2	STE075SEB2	STE100SEB2
	CHROME	STE030SEC2	STE050SEC2	STE075SEC2	STE100SEC2
DIMENSIONS					
A (mm) - Width		500	500	500	500
B (mm) - Height without control panel		800	1,200	1,600	1,800
C (mm) - Height with control panel		900	1,300	1,700	1,900
D (mm) - Depth		50	50	50	50
E (mm) - Installed depth		100	100	100	100
MECHANICAL CHARACTERISTICS					
Armoured steel heating element		●	●	●	●
Thermal fluid		●	●	●	●
PC/ABS control panel with keypad		●	●	●	●
Weight (Kg)		11	15	22	28
Finishes	White	RAL 9016			
	Chrome	Chrome			
Design		Curve			
ELECTRICAL CHARACTERISTICS					
Nominal power (W)	White	300	500	750	1,000
	Chrome	300	300	500	750
Voltage (V)		230 V ~	230 V ~	230 V ~	230 V ~
Current (A)	White	1.3	2.2	3.3	4.4
	Chrome	1.3	1.3	2.2	3.3
Class II		●	●	●	●
FUNCTIONS					
TFT screen (1.77")		●	●	●	●
Manual / Automatic function		●	●	●	●
Eco / Comfort / Anti-frost mode		●	●	●	●
Open windows function		●	●	●	●
Screen brightness control		●	●	●	●
2 hr boost function		●	●	●	●
Programmable 24/7 using keyboard, AIR Control or BASIC Control		●	●	●	●
Compatible with BASIC Control pre-installed programming		●	●	●	●
PERFORMANCE AND SECURITY					
Rointe ULP4 Microcontroller		●	●	●	●
Wireless communications		Two-way infrared			
Fire proof cabling		●	●	●	●
Safety thermostat		●	●	●	●
Protection grade		IP 44	IP 44	IP 44	IP 44
INSTALLATION					
Template & installation kit		●	●	●	●
CERTIFICATIONS					
2004/108/CE Electromagnetic compatibility		●	●	●	●
2006/95/CE Electronic security		●	●	●	●
EAN CODE	WHITE	8436045914149	8436045914156	8436045914163	8436045914170
	CHROME	8436045914064	8436045914071	8436045914088	8436045914095
T.P.	WHITE	261 €	332 €	375 €	414 €
	CHROME	416 €	536 €	668 €	719 €



Accessories

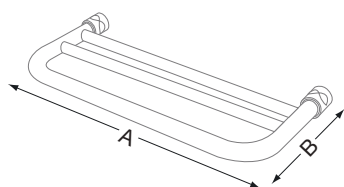
RACK FOR TOWEL RAILS

DIGITAL TOWEL RAILS




RACK

This accessory lets you place more towels on the towel rail (without exceeding the maximum supported weight of 2 Kg).

Furthermore the space between the wet towels on the rack and the towel rail allows an evaporation of water thanks to the natural air convection helping the towel dry quicker.



AVAILABLE FINISHES

-  White RAL 9016
-  Graphite forge effect
-  Chrome



MODEL	Compatible with SYGMA towel rails		Compatible with D Series towel rails	
	WHITE	RSRW001	RSRW002	
	CHROME	RSRC001	RSRC002	
	GRAPHITE	X	RSRB002	
DIMENSIONS				
A (mm) - Width		410		410
B (mm) - Depth		150		150
Inner tube diameter (mm)		16		16
Outer tube diameter (mm)		22		22
CHARACTERISTICS				
Material		Steel		Steel
Finishes	White	RAL 9016		RAL 9016
	Chrome	Chrome		Chrome
	Graphite	X		Graphite forge effect
Max. supported weight (Kg)		2		2
EAN CODE	WHITE	8436045916983		8436045917041
	CHROME	8436045916990		8436045917065
	GRAPHITE	X		8436045917058
T.P.	WHITE	70 €		70 €
	CHROME	75 €		75 €
	GRAPHITE	X		75 €



HANGERS

This accessory lets you hang more towels or bathrobes on the towel rail (without exceeding the maximum supported weight of 1 Kg).

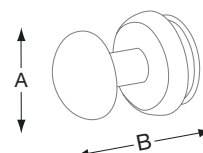
Accessories

HANGERS FOR TOWEL RAILS

DIGITAL
TOWEL RAILS

AVAILABLE FINISHES

- White RAL 9016
- Graphite forge effect
- Chrome



MODEL	WHITE CHROME GRAPHITE	Compatible with SYGMA towel rails	Compatible with D Series towel rails
		RSHW001 RSHC001 ×	RSHW002 RSHC002 RSHB002
DIMENSIONS			
A (mm) - Width		35	35
B (mm) - Depth		70	70
CHARACTERISTICS			
Material		Steel	Steel
Finishes	White	RAL 9016	RAL 9016
	Chrome	Chrome	Chrome
	Graphite	×	Graphite forge effect
Max. supported weight (Kg)		1	1
EAN CODE	WHITE	8436045917010	8436045917089
	CHROME	8436045917027	8436045917096
	GRAPHITE	×	8436045917002
T.P.	WHITE	30 €	30 €
	CHROME	35 €	35 €
	GRAPHITE	×	35 €

Unvented water heaters

ROINTE



Domestic hot water solutions

WATER HEATERS



DESIGN

Digital water heaters with touch control panel, TFT display and basic water heaters that fit any need and requirement.



D Series
50, 75, 100, 150
and 200 Litres

SYGMA
50, 75, 100, 150
and 200 Litres

RB Basic
50, 75, 100, 150
and 200 Litres

RW Basic
50, 75 and
100 Litres



SIZES

Square and cylindrical format according to model and volume.



Square shape
50, 75 and 100 L



Cylindrical shape
150 and 200 L

Rointe unvented water heaters

the ideal solution to complete your system.

From special enamel to protect the interior of the water heater to the two heating elements connected in a parallel circuit, Rointe ensures the function of our water heater under any circumstance. The insulation of the water heater – key to keep a stable temperature of the water inside the tank – together with the electronics designed and manufactured with the latest advances in safety and consumption measurement, make our electric water heaters one of the most efficient on the market.



EFFICIENCY



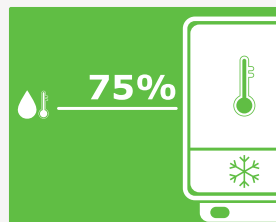
RANGE WITH 5 SIZES

Rointe presents 5 models of water heaters with volumes ranging from 50 to 200 litres, to be able to adapt to the hot water needs of each user.

The 50, 75 and 100 litre water heaters are square to fit smaller spaces such as cabinets. The 150 and 200 litre are cylindrical and are designed to be mounted on a tripod in low-rise areas.

EVOLUTION IN TEMPERATURE

The Rointe digital water heaters incorporate a function that allows the user to know in real time the available water the heater is able to supply at the desired temperature the user has set.



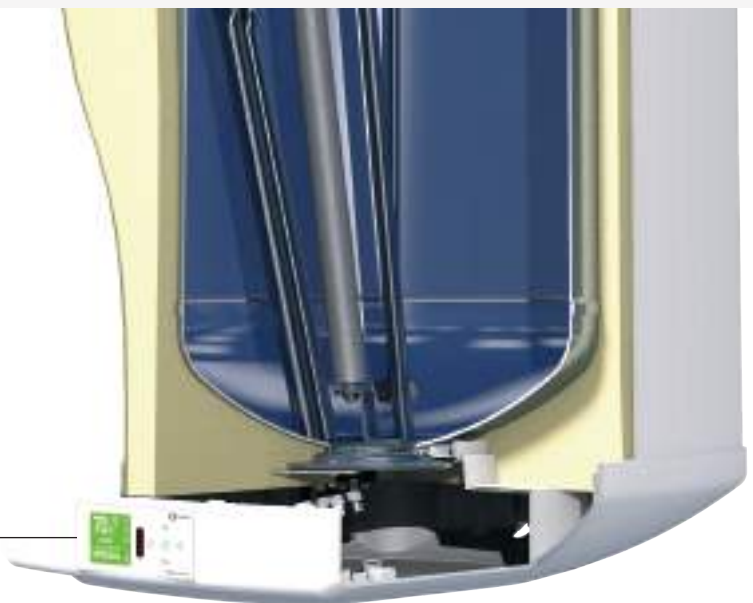
For example, the value shown on this screen indicates that the water temperature is 75% of the way to reaching the set temperature value by the user.

BIODEGRADABLE POLYURETHANE INSULATION

In Rointe we take care of the environment and for that reason the insulation that we use in our water heaters is made of polyurethane with a thickness of 3 cm. It is totally biodegradable and without CFCs, therefore the material does not damage the environment.

CONSUMPTION INDICATOR

Our digital water heaters incorporate an option to verify the efficiency of the system. Depending on your consumption, you will have a different coloured screen: green if the operation is optimal, yellow if it exceeds normal limits and red if the water heater is working above the estimated consumption.



THE ENERGY SMART WATER HEATERS

Our digital water heaters save up to 16% of energy compared to Rointe water heaters of the same capacity but with analogue technology.

Our water heaters have been tested in the technological centre of energy and the environment, where 16% of savings on energy consumption were obtained in a profile using 120 litres during 24 hours for a house with 4 people, in respect to a Rointe analogue water heater. If you wish, you can request this report by contacting Rointe.

HIGHER VOLUME OF WATER

The mixing valve increases the capacity of the water heater by 70%.

According to the test carried out at the Technological Centre for Energy and the Environment, the use of a mixing valve at the hot water outlet of a water heater increases the volume of water available at 39°C by 70%, in respect to a water heater where this has not been installed. If you wish, you can request this report by contacting Rointe.



WATER HEATERS

SECURITY

ANTI-LEGIONNAIRE'S DISEASE SYSTEM

The Rointe digital water heaters incorporate a protection system against legionella bacteria. These bacteria can appear in humid environments when the water temperature is around 40°C.

To prevent this, the water heater automatically raises its temperature to 60°C for an hour, once a week to destroy any possible remainder of this dangerous bacteria, assuring the user that the water being used is clean and disinfected.



DOUBLE HEATING ELEMENT

The product includes 2 sheathed heating elements, of easy substitution, that can be replaced without the necessity of having to drain the whole water heater. These heating elements work in a parallel circuit, so if one is damaged the other continues to heat the water.

MAGNESIUM ANODE*

The magnesium anode that the Rointe water heaters contain protects the life span of the cylinder of the water heater. It helps to prevent any lime scale within the tank avoiding any corrosion.

*Check the periodicity of anode maintenance in the product manual.

INSTALLATION KIT INCLUDED

Rointe offers users all the necessary components for the correct installation of the water heater according to the laws in each country. These kits must be installed to ensure the protection of the user against possible pressure failures.

SECURITY THERMOSTAT

Each Rointe water heater includes a security thermostat inside the boiler preventing the possibility for it to overheat. Unlike the rest of the water heaters in the market, this reads the temperature at the top of the tank for a more precise measurement of the temperature.

ELECTROLYTIC FITTINGS

The electrolytic components are assembled during the manufacturing process to avoid corrosion that can occur when joining steel pipes in the house to the outlets on the water heater.

5 YEAR CERTIFIED GUARANTEE

Rointe water heaters have a 5 year guarantee on the cylinder and a 2 year guarantee on electronic components and comply with all national and international regulations for heating products.



D Series

D.H.W. CONNECTED
DIGITAL WATER HEATER



CHARACTERISTICS



LOW CONSUMPTION

It includes **Optimizer Energy Plus**, energy optimizing technology patented by Rointe that allows to obtain a **non-consumption coefficient of up to 81%** of the nominal power of the product.*



INTEGRATED CONNECTIVITY

Integrated Wi-Fi and home automation technology via the E-Life platform.



CONTROL OF CONSUMPTION AND COSTS

“True Real Power” consumption meter which allows you to obtain **statistics of the real energy consumption and costs**.

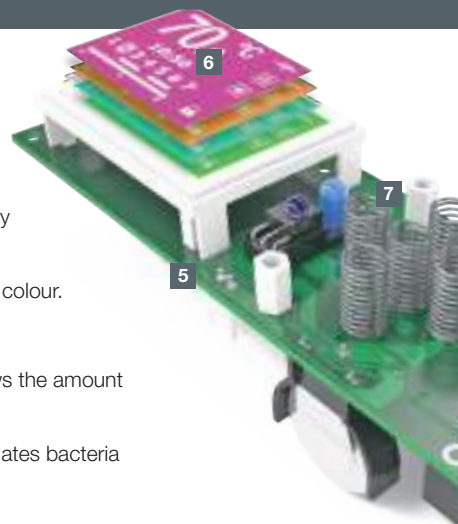
Rointe D Series system

- 1 Steel tank covered with **0.5mm thick porcelain enamel**.
- 2 **Double heating element connected in parallel**, which work individually.
- 3 Long lasting **magnesium protective anode**.
- 4 Low thermal conductivity **3cm thick Polyurethane insulation free of CFC's**.

Electronics & functionality

- 5 **2 circuits with SMD technology**, lithium battery and Triac relay.
- 6 **1.77" TFT display** with adjustable background colour.
- 7 **Highly sensitive touch control panel**.

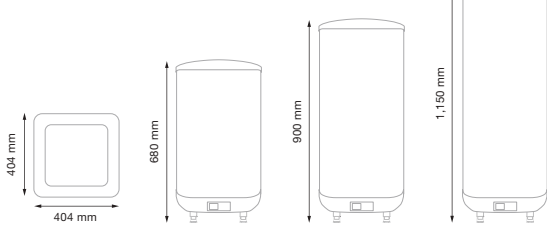
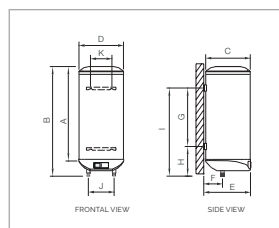
- **Water heating progress function**, which shows the amount of hot water available.
- **Periodic anti-legionella function**, which eliminates bacteria from the water.
- **New USER mode**.



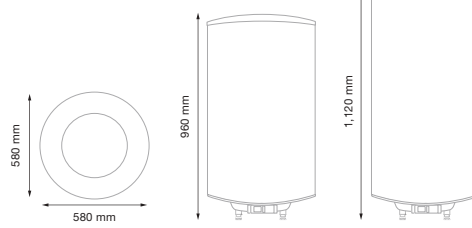


Dimensions

Square range of products
D Series water heaters - 50 - 75 - 100 L



Cylindrical range of products
D Series water heaters - 150 - 200 L



MODELS	DWE050DHW2	DWE075DHW2	DWE100DHW2	DWE150DHW2	DWE200DHW2
Volume	50	75	100	150	200
DIMENSIONS					
A (mm) - Height	640	860	1,100	900	1,070
B (mm) - Height with connections	680	900	1,150	960	1,120
C (mm) - Total height with T/P valve	780	1,000	1,250	1,060	1,220
D (mm) - Width	404	404	404	580	580
E (mm) - Depth	404	404	404	580	580
F (mm) - Installed depth	420	420	420	620	620
G (mm) - Depth from the connections to the wall	120	120	120	178	178
H (mm) - Vertical distance between fixing holes	340	573	768	595	685
I (mm) - Vert. dist. lower fixing holes & connections	130	142	192	250	250
J (mm) - Vert. dist. upper fixing holes & connections	470	715	960	845	935
K (mm) - Distance between connections	160	160	160	235	235
L (mm) - Horizontal distance between fixing holes	350	350	350	350	350
INSTALLATION					
Position	Vertical				
Water connection (inches)	1/2"	1/2"	1/2"	3/4"	3/4"
Electrolytic fittings	●	●	●	●	●
Support Tripod	non available	non available	non available	included	included
MECHANICAL CHARACTERISTICS					
Control panel with touch keyboard	●	●	●	●	●
Maximum working pressure (bar)	9	9	9	9	9
Enamelled steel tank	●	●	●	●	●
Magnesium anode protector	●	●	●	●	●
CFC free polyurethane insulation	●	●	●	●	●
Empty weight (kg)	18	25	32	44	56
Finish	White RAL 9016				
ELECTRICAL CHARACTERISTICS					
N° Heating Elements x Power (W)	2 x 1,200	2 x 1,200	2 x 1,200	2 x 1,200	2 x 1,200
Nominal power (W)	2,400	2,400	2,400	2,400	2,400
Effective power (W)	456	456	456	456	456
Voltage (V)	230 V ~	230 V ~	230 V ~	230 V ~	230 V ~
Current (A)	10.4	10.4	10.4	10.4	10.4
FUNCTIONALITY					
TFT Screen (1.77")	●	●	●	●	●
Manual / Automatic functions	●	●	●	●	●
ECO / Comfort / Anti-frost / New USER modes	●	●	●	●	●
Anti-legionella & temperature evolution functions	●	●	●	●	●
Screen brightness control	●	●	●	●	●
Nominal and effective power	●	●	●	●	●
Programmable 24/7 using Pad, App or Remote Control	●	●	●	●	●
PERFORMANCE AND SECURITY					
Fuzzy Logic Energy Control	●	●	●	●	●
E-Life Technology & Wi-Fi Inside	●	●	●	●	●
True Real Power & Rointe ULP32 Microcontroller	●	●	●	●	●
Wireless communication	WiFi / Two-way infrared				
Cold water entry diffuser, safety valve & safety thermostat	●	●	●	●	●
Steady state consumption (kWh/24h)	1.1	1.2	1.4	1.9	2.3
Energy certification					
Protection grade	IP X4	IP X4	IP X4	IP X4	IP X4
PROTECTION GRADE					
004/108/EC Support Electromagnetic	●	●	●	●	●
2006/95/EC Electronic Security	●	●	●	●	●
EAN CODE					
	8436045911797	8436045911803	8436045911810	8436045911827	8436045911872
T.P.	574 €	680 €	707 €	900 €	962 €

* Extrapolating the data of tests performed by independent laboratories comparing Fuzzy Logic Energy Control and Optimizer Energy Plus (first Rointe energy control technology) under the same parameters, a difference in energy consumption of 6.3% was obtained. This saving allows the terms with Fuzzy Logic Energy Control to obtain a power average of only 19% of the nominal power. That is what we define as the equivalent coefficient of consumption. If we multiply the nominal power by the equivalent coefficient of consumption we obtain the effective power.

SYGMA

LOW CONSUMPTION
DIGITAL WATER HEATER



CHARACTERISTICS



LOW CONSUMPTION

It includes **Optimizer Energy Plus**, energy optimizing technology patented by Rointe that allow us to obtain a **non-consumption coefficient of up to 80%** of the nominal power of the product.*



INFRARED CONNECTIVITY - SEND AND RECEIVE

AIR Control & BASIC Control IR remote controls available (optional).

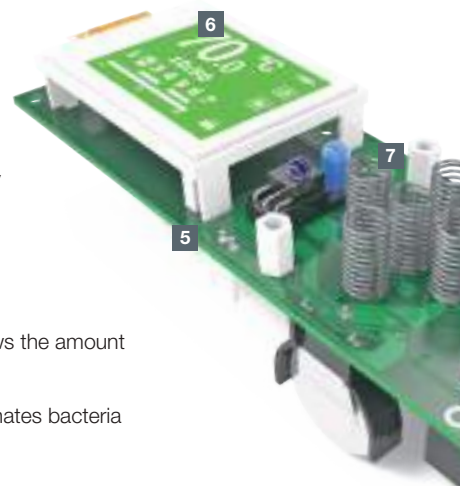
Rointe SYGMA system

- 1 Steel tank covered with **0.5mm thick porcelain enamel**.
- 2 **Double heating element connected in parallel**, which work individually.
- 3 Long lasting **magnesium protective anode**.
- 4 Low thermal conductivity **3cm thick Polyurethane insulation free of CFC's**.

Electronics and functionality

- 5 **1 circuit with SMD technology**, lithium battery and Triac relay.
- 6 **1.77" TFT display**.
- 7 **Highly sensitive touch control panel**.

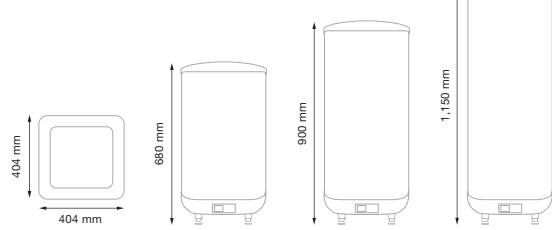
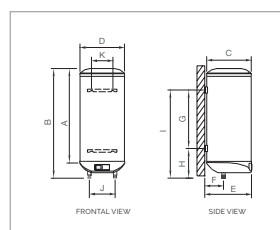
- **Water heating progress function**, which shows the amount of hot water available.
- **Periodic anti-legionella function**, which eliminates bacteria from the water.



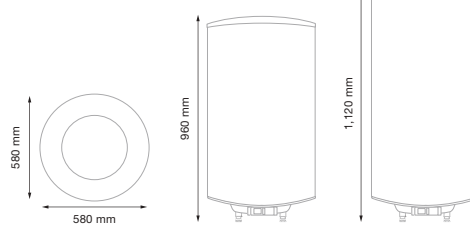


Dimensions

Square range of products
SYGMA water heaters - 50 - 75 - 100 L



Cylindrical range of products
SYGMA water heaters - 150 - 200 L



MODELS	SWE050DHW2	SWE075DHW2	SWE100DHW2	SWE150DHW2	SWE200DHW2
Volume	50	75	100	150	200
DIMENSIONS					
A (mm) - Height	640	860	1,100	900	1,070
B (mm) - Height with connections	680	900	1,150	960	1,120
C (mm) - Total height with T/P valve	780	1,000	1,250	1,060	1,220
D (mm) - Width	404	404	404	580	580
E (mm) - Depth	404	404	404	580	580
F (mm) - Installed depth	420	420	420	620	620
G (mm) - Depth from the connections to the wall	120	120	120	178	178
H (mm) - Vertical distance between fixing holes	340	573	768	595	685
I (mm) - Vert. dist. lower fixing holes & connections	130	142	192	250	250
J (mm) - Vert. dist. upper fixing holes & connections	470	715	960	845	935
K (mm) - Distance between connections	160	160	160	235	235
L (mm) - Horizontal distance between fixing holes	350	350	350	350	350
INSTALLATION					
Position	Vertical				
Water connection (inches)	1/2"	1/2"	1/2"	3/4"	3/4"
Electrolytic fittings	●	●	●	●	●
Support Tripod	non available	non available	non available	included	included
MECHANICAL CHARACTERISTICS					
Control panel with touch keyboard	●	●	●	●	●
Maximum working pressure (bar)	9	9	9	9	9
Enamelled steel tank	●	●	●	●	●
Magnesium anode protector	●	●	●	●	●
CFC free polyurethane insulation	●	●	●	●	●
Empty weight (kg)	18	25	32	44	56
Finish	White RAL 9016				
ELECTRICAL CHARACTERISTICS					
N° Heating Elements x Power (W)	2 x 1,200	2 x 1,200	2 x 1,200	2 x 1,200	2 x 1,200
Nominal power (W)	2,400	2,400	2,400	2,400	2,400
Effective power (W)	456	456	456	456	456
Voltage (V)	230 V ~	230 V ~	230 V ~	230 V ~	230 V ~
Current (A)	10.4	10.4	10.4	10.4	10.4
FUNCTIONALITY					
TFT Screen (1.77")	●	●	●	●	●
Manual / Automatic functions	●	●	●	●	●
ECO / Comfort / Anti-frost mode	●	●	●	●	●
Anti-legionella function	●	●	●	●	●
Temperature evolution function	●	●	●	●	●
Screen brightness control	●	●	●	●	●
Nominal and effective power	●	●	●	●	●
Programmable 24/7 using touch keyboard or Remote Control	●	●	●	●	●
Compatible with BASIC Control pre-installed programming	●	●	●	●	●
PERFORMANCE AND SECURITY					
Optimizer Energy Plus & Rointe ULP4 Microcontroller	●	●	●	●	●
Wireless communication	Two-way infrared				
Cold water entry diffuser, safety valve & safety thermostat	●	●	●	●	●
Steady state consumption (kWh/24h)	1.1	1.2	1.4	1.9	2.3
Energy certification	●	●	●	●	●
Protection grade	IP X4	IP X4	IP X4	IP X4	IP X4
PROTECTION GRADE					
004/108/EC Support Electromagnetic	●	●	●	●	●
2006/95/EC Electronic Security	●	●	●	●	●
EAN CODE					
	8436045914187	8436045914194	8436045914200	8436045914217	8436045914224
T.P.	416 €	493 €	512 €	652 €	697 €

* In tests performed by independent laboratories, a consumption profile was simulated for a family of four people of 120 liters per day, with the thermostat set at 73°C. Once the tests were completed, a power average of only 20% of the nominal power was obtained. That is what we define as the equivalent coefficient of consumption. If we multiply the nominal power by the equivalent coefficient of consumption we obtain the effective power.



Basic water heaters

RB

Basic

WATER HEATER WITH
EXTERNAL MANUAL
ADJUSTMENT

CHARACTERISTICS



EXTERNAL MECHANICAL REGULATOR

The water heater has an external regulating wheel to select the temperature of the contained water.



WIDE RANGE OF MODELS

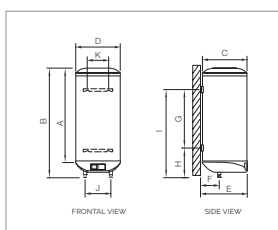
5 different models with capacity for 50, 75, 100, 150 and 200 litres.



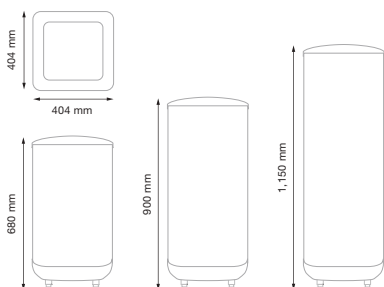
OPERATING LIGHT PILOT

It includes a pilot indicator light to show when the resistance is on.

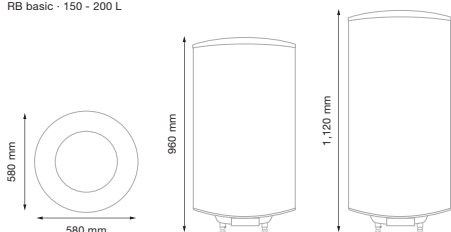
Dimensions



Square range of models
RB basic - 50 - 75 - 100 L



Cylindrical range of models
RB basic - 150 - 200 L



MODELS	RBE050DHW	RBE075DHW	RBE100DHW	RBE150DHW	RBE200DHW
Volume	50	75	100	150	200
DIMENSIONS					
A (mm) - Height	620	853	1,048	900	1,070
B (mm) - Height w. connections	690	936	1,176	960	1,120
C (mm) - Width	410	410	410	580	580
D (mm) - Depth	410	410	410	580	580
E (mm) - Installed depth	429.5	429.5	429.5	620	620
F (mm) - Depth from the connections to the wall	120	120	120	178	178
G (mm) - Vertical distance between fixing holes	/	/	/	490	670
H (mm) - Vert. distance lower fixing holes & connections	/	/	/	355	355
I (mm) - Vert. distance upper fixing holes & connections	620	840	1,090	845	1,025
J (mm) - Dist. betw. connections	160	160	160	235	235
K (mm) - Horz. dist. fixing holes	350	350	350	350	350
INSTALLATION					
Water connections (inches)	1/2"	1/2"	1/2"	3/4"	3/4"
MECHANICAL CHARACTERISTICS					
Max. working pressure (bar)	9	9	9	9	9
Empty weight (kg)	18	25	32	44	56
ELECTRICAL CHARACTERISTICS					
Nominal power (W)	2,400	2,400	2,400	2,400	2,400
Voltage (V)	230 V ~	230 V ~	230 V ~	230 V ~	230 V ~
Current (A)	10.4	10.4	10.4	10.4	10.4
PERFORMANCE & SAFETY					
Steady state consumption (kWh/24h)	1.1	1.2	1.4	1.9	2.3
Protection grade	IP 44	IP 44	IP 44	IP 44	IP 44
EAN CODE					
	8436045918307	8436045918314	8436045918321	8436045918338	8436045918345
T.P.					
	380 €	415 €	445 €	585 €	632 €



CHARACTERISTICS



WIDE RANGE OF MODELS

3 different models with capacity for 50, 75 and 100 litres.



OPERATING LIGHT PILOT

It includes a pilot indicator light to show when the resistance is on.

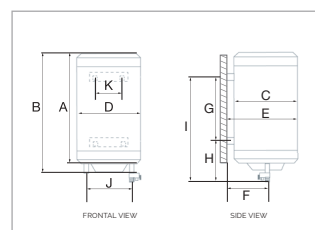
Basic water heaters

RW
Basic

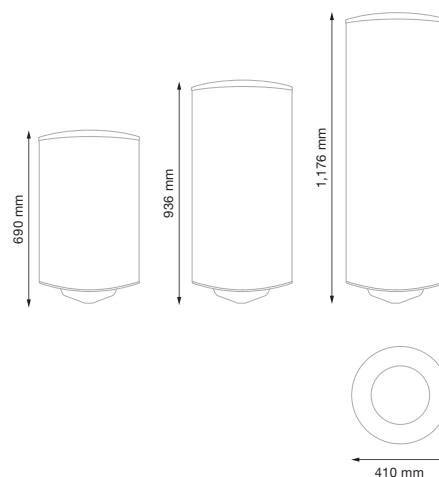
WATER HEATER WITH
INTERNAL MANUAL
ADJUSTMENT

MODELS	BSE050DHW	BSE750DHW	BSE100DHW
Volume	50	75	100
DIMENSIONS			
A (mm) - Height	620	853	1,048
B (mm) - Height with connections	690	936	1,176
C (mm) - Width	410	410	410
D (mm) - Depth	410	410	410
E (mm) - Installed depth	429.5	429.5	429.5
F (mm) - Depth from the connections to the wall	120	120	120
G (mm) - Vertical distance between fixing holes	/	/	/
H (mm) - Vert. distance lower fixing holes & connections	/	/	/
I (mm) - Vert. distance upper fixing holes & connections	620	840	1.090
J (mm) - Distance between connections	160	160	160
K (mm) - Horizontal distance between fixing holes	350	350	350
INSTALLATION			
Water connections (inches)	1/2"	1/2"	1/2"
MECHANICAL CHARACTERISTICS			
Maximum working pressure (bar)	9	9	9
Empty weight (kg)	18	25	32
ELECTRICAL CHARACTERISTICS			
Nominal power (W)	1,200	1,200	1,200
Voltage (V)	230 V ~	230 V ~	230 V ~
Current (A)	5.2	5.2	5.2
PERFORMANCE & SECURITY			
Steady state consumption (kWh/24h)	1.1	1.2	1.4
Protection grade	IP 44	IP 44	IP 44
EAN CODE	8436045918352	8436045918369	8436045918376
T.P.	315 €	362 €	370 €

Dimensions



Cylindrical range of models
RW Basic - 50 - 75 - 100 L





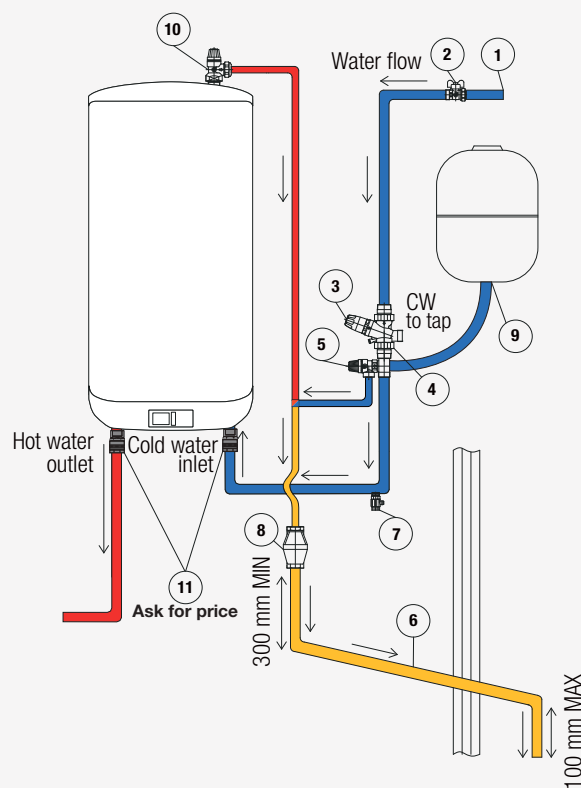
Accessories

INSTALLATION KIT

LOW CONSUMPTION DOMESTIC HOT WATER WATER HEATER

DETAILS OF THE INSTALLATION

- 1 - Mains cold water supply
- 2 - Stop cock (not supplied)
- 3 - Pressure reducing valve **(included)**
- 4-5 - Check valve - Expansion relief valve **(included)**
- 6 - Discharge pipe 22 mm
- 7 - Drain cock (not supplied)
- 8 - Tundish **(included)**
- 9 - Expansion vessel **(included)**
- 10 - T/P relief valve **(included)**
- 11 - Electrolytic fittings **(included)**



* This image is only for reference. Check the instruction manual for specific details and accessories required to perform a proper installation. The Rointe water heaters must be installed by an experienced installer.

Mandatory requirement

In some countries it is **mandatory** for all models of unvented domestic hot water heaters to be installed with an installation kit composed of:



MODELS	KETKW01	KETKW02	KETKW03
Compatible with	50 / 100 L	100 / 150 L	200 L
CHARACTERISTICS			
Expansion vessel	8 litres (0.1 Mpa)	12 litres (0.1 Mpa)	18 litres (0.1 Mpa)
Tundish	15 - 25 mm	15 - 25 mm	15 - 25 mm
Pressure reducing valve	0.35 Mpa	0.35 Mpa	0.35 Mpa
Relief valve	0.60 Mpa	0.60 Mpa	0.60 Mpa
EAN CODE	-	-	-
T.P.	Ask for price	Ask for price	Ask for price

Accessories

WATER HEATER SUPPORT

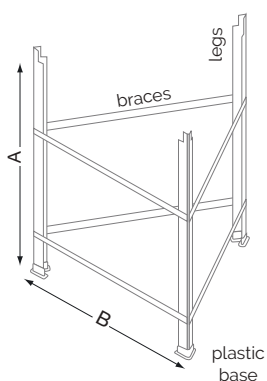
LOW CONSUMPTION
DIGITAL D.H.W.
WATER HEATERS

GUARANTEE
2 YEARS
on accessories & controls

The support kit consists of an easily assembled tripod, which has been designed for the 150 and 200 litre models.

Its use is highly recommended for situations where wall fixing isn't sufficient or can't guarantee the stability of the product due to the weight of the product when 100% full. **Installation of this product does not mean it should not be wall mounted as explained in the installation manual.**

MODEL	TPRD001
COMPONENTS	
Legs (pcs)	3
Braces (pcs)	6
Plastic base (pcs)	3
CHARACTERISTICS	
Material	Metallic
Finish	White RAL 9016
Maximum supported weight (kg)	260
DIMENSIONS	
A (mm) - Height	625
B (mm) - Width	530
EAN CODE	8436045912886
T.P.	104 €





Accessories

THERMOSTATIC MIXING VALVE

LOW CONSUMPTION
DOMESTIC HOT WATER
WATER HEATER

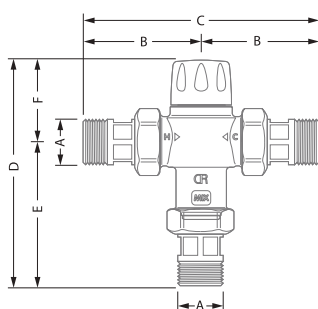


Rointe has a saving kit which consists of a mixing valve installed at the water heaters' hot water outlet. This valve mixes the hot water from the Rointe heater with cold water from the mains delivering thermally mixed water at your desired temperature to the point of use.

This kit minimize heat loss through the pipes due to transporting water at a lower temperature reducing heat loss through the pipework.



Dimensions



MODELS	RTVAL001	RTVAL002
CHARACTERISTICS		
Adjustment range	30÷50°C	
Accuracy	± 2°C	
Maximum working pressure (static)	10 bar	
Maximum working pressure (dynamic)	5 bar	
Temp maximum input	85°C	
Input Temp advised to avoid limescale	≤ 65°C	
Relationship max. between inlet pressures (C / F or F / C)	2:1	
Min. Temp. dif. betw. hot water inlet & mixed water outlet (to avoid burns)	15°C	
Min. flow rate to ensure stable temperature	4 l/min	6 l/min
Connections	1/2" Male	3/4" Male
DIMENSIONS		
A (inch)	1/2"	3/4"
B (mm)	62.5	67
C (mm)	125	134
D (mm)	126.5	127
E (mm)	81.5	82
F (mm)	45	45
MATERIALS		
Body: chrome alloy anti rust	EN 12165 CW602N	
Shutter	PSU	
Springs	Stainless steel	
INSTALLATION		
Hot and cold water valves with entry filters	●	●
SECURITY		
Scalad & regulation locking nut protection	●	●
Temperature adjustment with hexagon screw top	●	●
CERTIFICATIONS		
Standard NF 079	●	●
EAN CODE	8436045911353	8436045911360
T.P.	182 €	218 €



The Rointe thermostatic mixing valve increases the available domestic hot water up to 70%

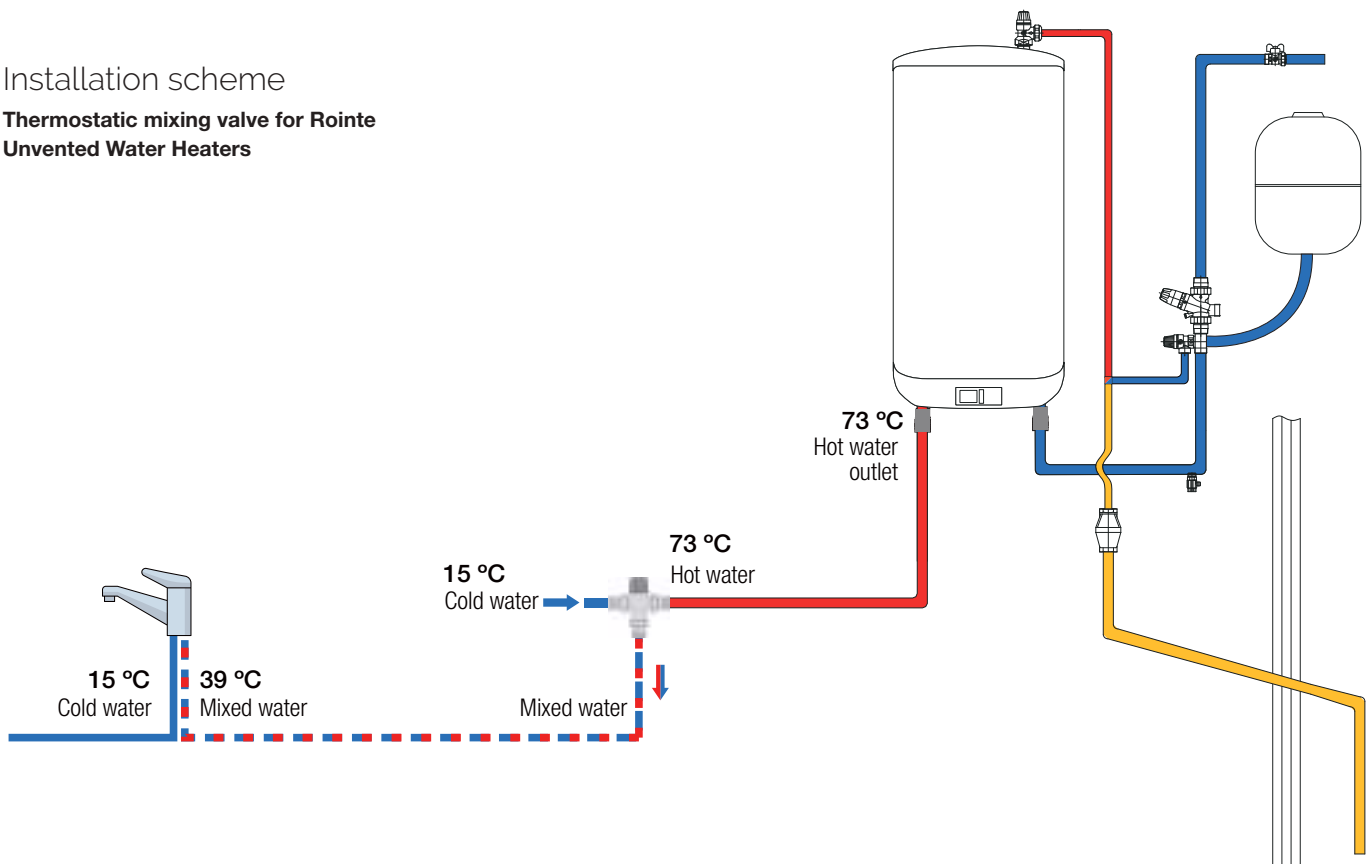
The other advantage of this valve is that it increases the amount of hot water available with respect to the capacity of the tank, which is defined as the equivalent volume.

This equivalent volume represents the litres of water available at 39°C assuming that the temperature of the water which enters the tank is 15°C and the desired temperature is 73°C.

MODELS	AVAILABLE WATER WITHOUT MIXING VALVE (L)	AVAILABLE WATER WITH MIXING VALVE (L)
50	50	85
75	75	127,5
100	100	170
150	150	255
200	200	340

Installation scheme

Thermostatic mixing valve for Rointe Unvented Water Heaters



Controls

ROINTE



Control devices for **integral heating solutions**



INFRARED REMOTE CONTROL

Three remote controls to choose from either basic or advanced.



AIR Control
White



AIR Control
Soft Touch Black



BASIC Control
White



CONTROL APPLICATION

Multi-platform app available for smartphone, tablet or PC.



Rointe Connect
Application

Optimize wellness and save money with our **preprogramming.**

Energy expenditure is one of the most important elements in a household budget. The preprogramming available in the new Rointe BASIC Control remote helps to save money without impeding the maximum comfort in the home.

These weekly programs allow you to quickly select the one that best suits according to your lifestyle, avoiding the products continual use when not needed and without the need for programming each day, generating savings by only having the heating on when needed.



Preinstalled programming accessible from these 4 buttons

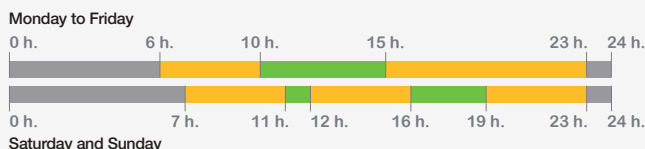
4 pre-designed programs for 4 different lifestyles

- Save energy and increase efficiency
- Easy to select
- Personalized by the user
- Adaptable to each lifestyle
- Installed in the BASIC Control IR remote control



Common lifestyle

The heating runs after you leave for work in ECO mode and switches to COMFORT mode when you return.

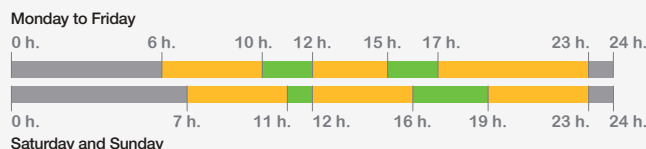


● No programming ● ECO mode ● COMFORT mode



Split Shift

Designed for workers who work shifts or at different times of day.



● No programming ● ECO mode ● COMFORT mode





Save energy with Rointe smart programming

Thanks to programming you can get significant savings in your electric bill.

To maximise savings without affecting your comfort, it is not simply a matter of turning the heating on and off, but of setting the **desired temperature for each time and room throughout the week.**

The Rointe digital integral system allows you to program your heating systems exactly according to your lifestyle and daily needs.

For example, you can select a schedule with more hours in COMFORT mode in spaces such as the living room or kitchen, where you spend most of the day. On the contrary, in other areas such as the bedroom which are usually only for night-time rest, **it is much smarter to set lower temperatures in the ECO mode.**

With the personalized programming of our products, you can create different environments within each home. **This is what we call smart programming.**



Home life

The heating system keeps the temperature of the house stable throughout the day for those that spend most of their time at home.

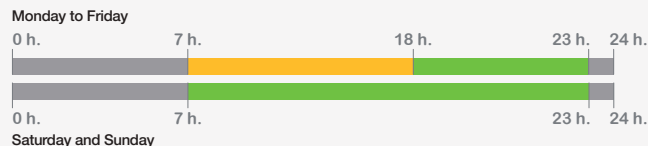


● No programming ● ECO mode ● COMFORT mode



Office

Designed for premises or offices where most of the activity is done throughout the day.



● No programming ● ECO mode ● COMFORT mode



AVAILABLE FINISHES

● White RAL 9016

● Soft touch black

GUARANTEE

2 YEARS

on accessories & controls



INFRA RED

AIR Control

BI-DIRECTIONAL
INFRARED REMOTE
CONTROL

Electronics and functionality

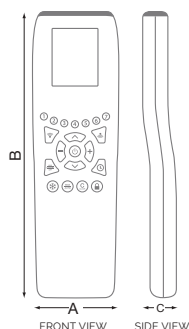
- **Two way communication** using infra-red. Send and receive.
- **SMD electronics** and advanced control technology.
- **1.77" TFT Screen.**
- **Compact mechanical keypad.**
- **Complete functionality** to control your Rointe heating system.

Compatibility

- The AIR Control remote control is **compatible with the D Series and SYGMA products.**

Accessories Wall Support

The Rointe AIR Control remote control **includes a transparent, modern and elegantly designed wall support.**



MODEL	ACME120	ACMEB120
DIMENSIONS		
W (mm) - Width	54	54
H (mm) - Height	177	177
D (mm) - Depth	21	21
MECHANICAL CHARACTERISTICS		
Weight (grs)	115	115
Finishes	White RAL 9010	Black soft touch
Cover material	PC/ABS	PC/ABS
Range operating temperature	-20 to 55 °C	-20 to 55 °C
ELECTRICAL CHARACTERISTICS		
Battery type	2 x 1.5 AAA	2 x 1.5 AAA
COMMUNICATION		
Wireless IR.	●	●
Transmitting - range (m)	3	3
Reception - range (m)	1	1
INSTALLATION		
Installed depth with support (mm)	25	25
FUNCTIONALITY		
TFT screen (1.77")	●	●
24 hours / 7 days programmer	●	●
Manual / automatic function	●	●
Remote memory lock - heating and D.H.W.	●	●
Erasing programming memory	●	●
Screen brightness control - On / Stand-by mode	●	●
Display nominal and effective power	●	●
ADVANCED FUNCTIONS		
Display consumption time, software version & battery level	●	●
Reset to initial default settings function	●	●
APPLICABLE REGULATIONS		
CE & ROHS	●	●
EAN CODE	8436045914262	8436045914545
T.P.	149 €	165 €





AVAILABLE FINISHES

● White RAL 9016

GUARANTEE

2 YEARS

on accessories & controls

Electronics and functionality

- **Communicates via infrared** up to a distance of 3m.
- **SMD electronics** and advanced control technology.
- **1.77" TFT Screen.**
- **Compact mechanical keypad.**
- **Four quick access buttons** for pre-installed programs.

INFRARED

BASIC Control

INFRARED REMOTE CONTROL


CONTROLS

MODEL	BCME100
DIMENSIONS	
A (mm) - Width	58
B (mm) - Height	155
C (mm) - Depth	16
MECHANICAL CHARACTERISTICS	
Weight (grs)	98
Finish	White RAL 9010
Cover material	PC/ABS
Range operating temperature	-20 to 55 °C
ELECTRICAL CHARACTERISTICS	
Battery type	2 x 1.5 AAA
COMMUNICATION	
Transmitting - range (m)	3
Reception - range (m)	Not available
FUNCTIONALITY	
TFT screen (1.77")	●
24 hours / 7 days programmer	●
Manual / automatic function	●
Remote memory lock - heating and D.H.W	●
Pre-programmed keys	●
Erasing programming memory	●
Screen brightness control - On / Stand-by mode	●
Display nominal and effective power	●
ADVANCED FUNCTIONS	
Display consumption time, software version & battery level	●
Reset to initial default settings function	●
APPLICABLE REGULATIONS	
CE & ROHS	●
EAN CODE	8436045911490
T.P.	104 €

Compatibility

- The BASIC Control remote control is compatible with the SYGMA range.

Pre-programs

 The BASIC Control remote control has **4 buttons with 4 pre-installed programs ready for use**. By simply pushing a button the user can choose the most appropriate program according to their lifestyle.





Rointe Connect

MULTI-PLATFORM CONTROL APP

Compatibility

- The Rointe Connect app is compatible with all the products in the D Series range and with the control thermostat of the Rointe Smart Touch underfloor heating.

Compatible with the Rointe Smart Touch thermostat



Functionality

- App for iOS, Android and web for other systems.
- App available for mobile, tablet or PC.
- Statistics available: consumption, savings, temperatures etc.
- Ability to configure a single product, floor levels, whole houses or offices.
- Control 24/7 from anywhere that has internet access.



VERSION	V 1.0.
COMMUNICATION	
Wireless Via Wi-Fi	●
PLATFORMS	
iOS 8.0 or higher & Android 4.0 or higher	●
Web (Google Chrome, Mozilla Firefox, Internet Explorer, Opera)	●
FUNCTIONS	
Alter the temperature	●
Programmable 7 days a week/24 hours a day	●
Function Manual / Automatic	●
Remote control lock – Heating	●
Light and colour display change	●
View nominal and effective power	●
Open windows mode / User Mode	●
Statistics control - Temperature, power consumption, savings	●
Product pairing & management	●
Individual or zone control	●
Push notifications (coming soon)	●
LANGUAGES	
English, French, Portuguese & Spanish	●

Pairing process

D Series products and Rointe Connect control application for iOS

The pairing of the D Series products is a short and simple process that allows control, from the chosen device (s), all the radiators, towel rails and water heaters that form an installation. Unlike many other products on the market, the pairing of the D Series products consists of only 4 steps and does not require previous computer knowledge, since it is designed so that any type of user or installer is able to do it easily.

1

Download the Rointe Connect App



Download and install the Rointe Connect app from the app store on your smartphone. Available on Google Play for Android and on the App Store for iOS.

Once the app is installed, register as a new user and log in.

2

Creation of the installation and zones



Once the session is started, click on the + button to create a new installation. From here, the wizard will guide you through the process: enter a name for the installation, select its location, choose the time zone and customize it by choosing a colour and an icon. Subsequently, add as many areas as necessary.

3

Starting Pairing Mode

1 - In the application, you will access the final zone in which you want to match the product (i.e. living room). Press the menu button (☰) and select the 'Add product' option. The wizard will guide you through the process.

2 - In the settings of your smartphone, you will connect to the Wi-Fi network of the place where the D Series product has been installed. Please enter the password in the application when requested.



3 - On the product, press the menu key on the control panel (☰). The main menu screen will appear, where you will select the tools option (🔧) and once inside the option Wi-Fi (📶).

The product screen will change its colour to red, indicating that you have successfully activated the pairing mode.



4

Final connection - product & application

1 - When you activate the pairing mode, the product creates a Wi-Fi network of its own to which you will connect. To do this, we will access the settings of your smartphone and connect to the network that the product has generated with the network name (NET :) and the password (PIN :).

2 - You return to the application and check that you are connected to the product.



If the process is successful, the product will restart. Finally, click on 'check device' to ensure that the connection has been successful.



Do you need help to pair products?

Visit our YOUTUBE channel and watch our videos!

<https://rointe.eu/connect>

Sizing,

example of calculation and case studies



The **most efficient** comfort and well-being



SIZING

The sizing is the base on which the correct distribution of Rointe radiators in a home or business is based to achieve the perfect balance between comfort and efficiency, depending on the climatic zone in which the property is located and consumption estimates according to the established calculation by Rointe.



CALCULATION EXAMPLE

Example of the sizing of radiators and water heater for an 80m² property in a cold climatic zone.



SUCCESS STORIES

Testimonials and case studies of installations carried out with Rointe radiators, towel rails and water heaters.

Radiator sizing

R.T.C.

ROINTE THERMAL
COEFFICIENT



Rointe's projects and technical studies department

Rointe shares with all its installers and wholesalers the **Rointe Projects Department**, made up of specialized engineers, who are personally responsible for calculating the number of elements required for each installation, according to the user heating needs. With this service, we make it possible for our customers to carry out complete technical studies with consumption comparisons that help them when presenting their Rointe installation services to any user.

The R.T.C. is a coefficient developed by Rointe that calculates between the number of elements necessary for a residence and its square meters and geographical area. With the proper sizing using the corresponding R.T.C. you will obtain the most balanced consumption.

$$\frac{\text{ZONE CLIMATE COEFFICIENT}}{\text{ELEMENT PERFORMANCE COEFFICIENT}} = \text{R.T.C}$$

To calculate the required radiators, we have to distinguish between m^2 and m^3 . For ceilings with a height lower than 3 meters we will use the R.T.C. (m^2). For ceilings with a height higher than 3 meters we will use the R.T.C. (m^3).

$$\text{R.T.C.} \times m^2 = \text{NECESSARY ELEMENTS}$$

$$\text{R.T.C.} \times m^3 = \text{NECESSARY ELEMENTS}$$

For example, if we want to obtain the R.T.C. of a cold zone:

$$\frac{120 \text{ kcal/h m}^2}{150 \text{ kcal/h m}^2} = 0.80 \text{ elements/m}^2$$

		Height less than 3 m	Height more than 3 m
Weather	Climatic Coefficient	R.T.C (m^2)	R.T.C (m^3)
Cold	120 Kcal/h m^2 40 Kcal/h m^3	0.80 elements/ m^2	0.26 elements/ m^3
Very Cold	130 Kcal/h m^2 45 Kcal/h m^3	0.85 elements/ m^2	0.30 elements/ m^3
Extra Cold	140 Kcal/h m^2 50 Kcal/h m^3	0.90 elements/ m^2	0.33 elements/ m^3



SIZING

Radiator recommended by square meter and climatic zone.



Examples of calculations already made based on the number of elements, area and climatic zone can be found in the following tables:

SYGMA AND D SERIES RADIATORS

Reference tables for radiators with **ODD ELEMENT DISTRIBUTION**

Calculation m² - ceiling height less than 3 meters

Weather	COLD	VERY COLD	EXTRA COLD
Kcal/h m ²	120 Kcal/h m ²	130 Kcal/h m ²	140 Kcal/h m ²
C.T.R.	0.80 elem./m ²	0.85 elem./m ²	0.90 elem./m ²
3 elem.	Up to 4 m ²	Up to 4 m ²	Up to 3 m ²
5 elem.	Up to 6 m ²	Up to 6 m ²	Up to 6 m ²
7 elem.	Up to 9 m ²	Up to 8 m ²	Up to 8 m ²
9 elem.	Up to 11 m ²	Up to 11 m ²	Up to 10 m ²
11 elem.	Up to 14 m ²	Up to 13 m ²	Up to 12 m ²
13 elem.	Up to 16 m ²	Up to 15 m ²	Up to 15 m ²
15 elem.	Up to 19 m ²	Up to 18 m ²	Up to 17 m ²

Calculation m³ - ceiling height more than 3 meters

Weather	COLD	VERY COLD	EXTRA COLD
Kcal/h m ³	40 Kcal/h m ³	45 Kcal/h m ³	50 Kcal/h m ³
C.T.R.	0.26 elem./m ³	0.30 elem./m ³	0.33 elem./m ³
3 elem.	Up to 13 m ³	Up to 11 m ³	Up to 10 m ³
5 elem.	Up to 21 m ³	Up to 18 m ³	Up to 16 m ³
7 elem.	Up to 28 m ³	Up to 25 m ³	Up to 22 m ³
9 elem.	Up to 36 m ³	Up to 31 m ³	Up to 28 m ³
11 elem.	Up to 44 m ³	Up to 38 m ³	Up to 34 m ³
13 elem.	Up to 51 m ³	Up to 45 m ³	Up to 40 m ³
15 elem.	Up to 59 m ³	Up to 51 m ³	Up to 46 m ³

Reference table for SYGMA conservatory radiators

11 elem.	Up to 8 m ²	Up to 7 m ²	Up to 7 m ²
13 elem.	Up to 9 m ²	Up to 9 m ²	Up to 8 m ²
15 elem.	Up to 11 m ²	Up to 10 m ²	Up to 9 m ²

11 elem.	Up to 24 m ³	Up to 21 m ³	Up to 19 m ³
13 elem.	Up to 28 m ³	Up to 25 m ³	Up to 22 m ³
15 elem.	Up to 32 m ³	Up to 29 m ³	Up to 26 m ³

Recommendations for correct sizing.

- In areas that contain stairs or corridors and there is a high risk of heat loss, we recommend that the result be **increased by 15%**.
- As kitchens are areas with a lot more furniture and a generally higher room temperature, we recommend that the result be **decreased 10%**.
- **Avoid placing obstacles near the radiators and distribute them evenly in the room.** For example, if a room of 21m² needs 18 elements, the ideal radiators to install would be 2 of the 9 elements radiators with an equidistant separation between them.





Sizing

Towel rails recommended by area

D SERIES TOWEL RAILS

White, graphite forge effect, RAL colour and chrome models

AREA	POWER	FINISH	MODEL		
Up to 3 m ²	300 W	White Graphite forge effect RAL Colour	DTE030SEW	DTE030SEB	DTE030SER
Up to 5 m ²	450 W		DTE045SEW	DTE045SEB	DTE045SER
Up to 7 m ²	600 W		DTE060SEW	DTE060SEB	DTE060SER
Up to 10 m ²	750 W		DTE075SEW	DTE075SEB	DTE075SER
Up to 2 m ²	300 W	Chrome	DTE030SEC		
Up to 4 m ²	300 W		DTE045SEC		
Up to 6 m ²	450 W		DTE060SEC		
Up to 8 m ²	600 W		DTE075SEC		

SYGMA TOWEL RAILS

White and chrome models

AREA	POWER	FINISH	MODEL
Up to 3 m ²	300 W	White	STE030SEB2
Up to 5 m ²	500 W		STE050SEB2
Up to 7 m ²	750 W		STE075SEB2
Up to 10 m ²	1.000 W		STE100SEB2
Up to 2 m ²	300 W	Chrome	STE030SEC2
Up to 4 m ²	300 W		STE050SEC2
Up to 6 m ²	500 W		STE075SEC2
Up to 8 m ²	750 W		STE100SEC2

Remember...

Do you need help with
sizing and installation?

Send your installation details to

export@rointe.com

and our **Technical Department** will help you & solve all your doubts.



Sizing

Recommended water heater according to the usage and/or number of users



ROINTE UNVENTED WATER HEATERS

D Series, SYGMA, RB Basic and RW Basic

Sizing by users

SIZE	USERS	EQUIPMENT
50 L	1-2	Washbasin / Sink / Shower
75 L	2-4	Washbasin / Sink / Shower
100 L	2-5	Washbasin / Sink / Small bathtub
150 / 200 L	3-6	Washbasin / Sink / Shower / Small bathtub

Calculation

example

Heating + domestic hot water



House of 80 m² in a cold climatic zone

Estimated calculation of a house with 80m² with D Series radiators, in a cold climatic zone, with a usage during the day/night for 12 twelve hours at a set temperature of 21°C.

Type	Heating
Sizes	80 m ²
Rooms	3 bedrooms, kitchen, living room and bathroom
Climatic zone	Cold (0.8 elements/m ²)
Heating system	D Series heating system

Calculation example in m² (ceiling height less than 3 meters)

ROOM	M ²	RTC	N° OF ELEMENTS	PRODUCTS	NOMINAL POWER	CONSUMPTION COEFFICIENT RATIO	EFFECTIVE POWER
Living room	19	0.80	15	1 X DEW1600RAD	1.600 W	38%	608.00 W
Kitchen	14	0.80	11	1 X DEW1210RAD	1.210 W	38%	459.80 W
Corridor	9	0.80	7	1 X DEW0770RAD	770 W	38%	292.60 W
Bedroom 1	14	0.80	11	1 X DEW1210RAD	1.210 W	38%	459.80 W
Bedroom 2	9	0.80	7	1 X DEW0770RAD	770 W	38%	292.60 W
Bedroom 3	9	0.80	7	1 X DEW0770RAD	770 W	38%	292.60 W
Bathroom	6	0.80	5	1 X DEW0550RAD	550 W	38%	209.00 W
Heating	80 m²		63	7	6,880 W	38%	2,614.40 W

D Series radiators: calculation of the effective power

NOMINAL POWER	CONSUMPTION COEFFICIENT RATIO	EFFECTIVE POWER
6,880 W	38%	2.61 kW

EFFECTIVE POWER	HOURS OF HEATING	UNIT RATE	DAILY COST	MONTHLY COST
2.61 kW	12 h	0.20 € kWh	6.26 €	187.80 €

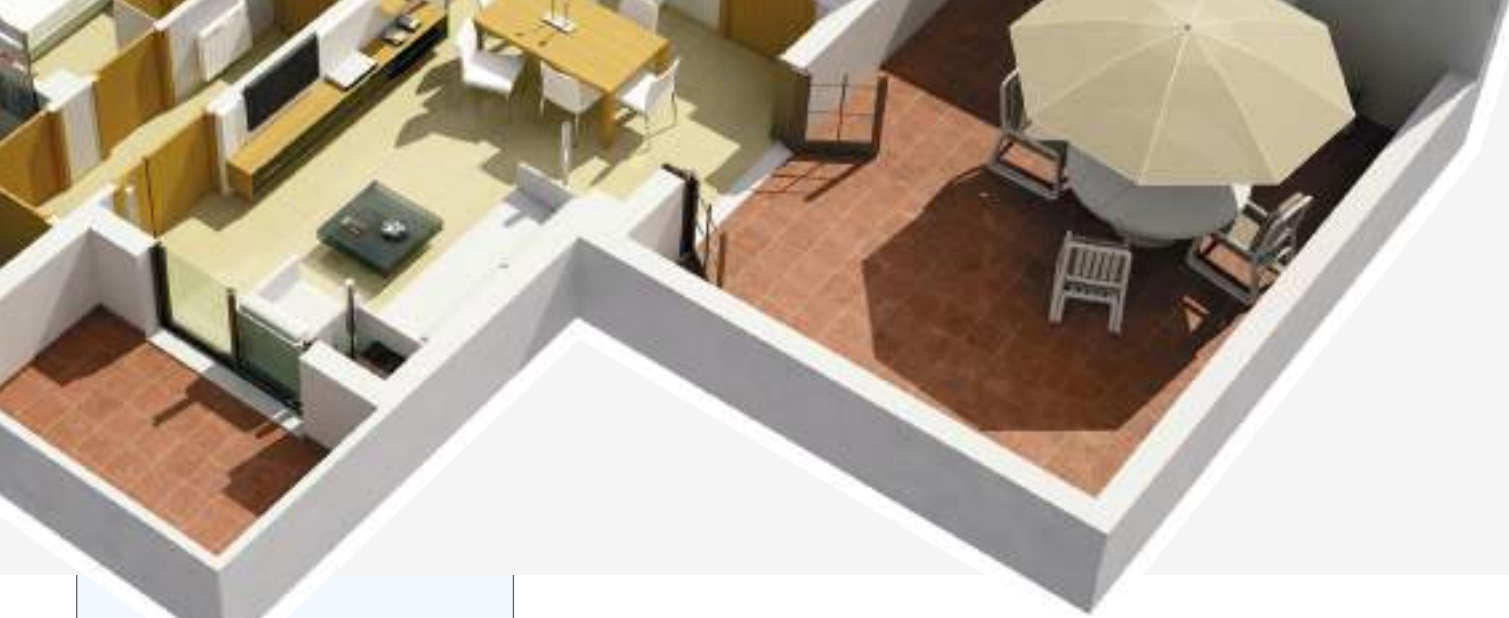
With the D Series radiator, to maintain a stable temperature of 21°C for 12 hours, we only need an equivalent coefficient of consumption of 38% of its nominal power.

[See explanation of coefficient on page 16.](#)

$$187.80 \text{ €} / 80 \text{ m}^2 = 2.35 \text{ €} / \text{m}^2 / \text{month}^*$$

* Result obtained by dividing the monthly cost obtained in the previous example between the m² of the installation. Remember that these are approximate calculations and should be considered as average. For correct dimensioning, it is necessary to carry out a detailed and personalized technical study of the installation, done by Rointe through an official installer.

*Average European electricity rates according to Eurostat.



Type Domestic hot water

Users	4 people
Litres/day	120 L (30 litres/person)
Volume water heater	100 L
Volume with the mixing valve (included)	170 L
Heating system	Rointe D Series heating system



Domestic hot water for 4 users

Calculation made with the thermostat operating 24 hours and with a consumption profile of 120 litres/day (30 litres per person) and a set temperature of 73°C.

Calculation example in litres per user

PRODUCTS	VOLUME	VOLUME WITH THE MIXING VALVE	NOMINAL P.	EQ. COEFF. OF CONSUM.	EFFECTIVE P.
DWE100DHW	100 L	170 L	2,000 W	19%	380.00 W

D Series water heater: calculation of the effective power

NOMINAL POWER	CONSUMPTION COEFFICIENT RATIO	EFFECTIVE POWER
2,000 W	19%	0.38 kW

EFFECTIVE POWER	HOURS OF HEATING	UNIT RATE	DAILY COST	MONTHLY COST
0.38 kW	24 h	0.20 € kWh	1.82 €	54.60 €

With the 100 litre D Series water heater, if we set a temperature of 73°C and we have a daily consumption of 120 litres per day, **we only need an equivalent coefficient of consumption of 19%**.
[See explanation of coefficient on page 16.](#)

54.60 € / 4 people = 13.65 € / person / month

* Result obtained by dividing the monthly cost obtained in the previous example by 4 people. Remember that these are approximate calculations and should be considered as averages. For correct dimensioning, it is necessary to carry out a detailed and personalized technical study of an installation by Rointe or an authorized installer.

*Average European electricity rates according to Eurostat.

Projects, testimonials and case studies

- SoHostel London
- Morton-H. Design & Build
- Individual homes

D SERIES RADIATORS

Guest well being under control.

The London SoHostel, located in the center of the capital, required an efficient heating system to install in the rooms that are frequently occupied, which could also be easily controlled from reception.

In addition, another of the specific requirements was that the radiators could be locked to avoid any guests from modifying the parameters on the radiators.

THE SOLUTION

Once the technical study and the sizing were complete, the D Series connected radiators were chosen for this installation. Several radiators were installed in different rooms to all connect directly to the Wi-Fi on the premises of the hostel.

THE RESULT

The guests of the hostel now enjoy comfort in their rooms throughout winter. Thanks to the remote lock, programming and the central controls from reception, the hostel ensures the maximum well-being for its guests and the highest energy efficiency without spending a penny more than necessary.

Project	SoHostel · London
Type of project	Private
Location	Soho District, London
Client	
Heating system	Rointe D Series heating system



D SERIES TOWEL RAILS

Style and comfort in the bathroom.

Morton-Hunte design and build, an exclusive housing developer, were looking for a high performance heating system to install in their new luxury housing development at Godalming.

Its electrical installer recommended the new Rointe D Series system for its quality, design and finishes, high efficiency and the unbeatable mobile connectivity it offers.

THE SOLUTION

Based on these premises, at Rointe we conducted a technical study to assess the calorific needs of each room, recommending, in this way, the right size product for each of the rooms. In the bathroom Chrome D Series towel-rails were installed, which fit perfectly with the décor and style of the room.

THE RESULT

The owners of the flats of this new housing development now enjoy all the benefits of the connected Rointe heating system in their home, being able to control all the products in their homes easily, anytime and from anywhere with their smartphone.

Project Luxury housing promotion

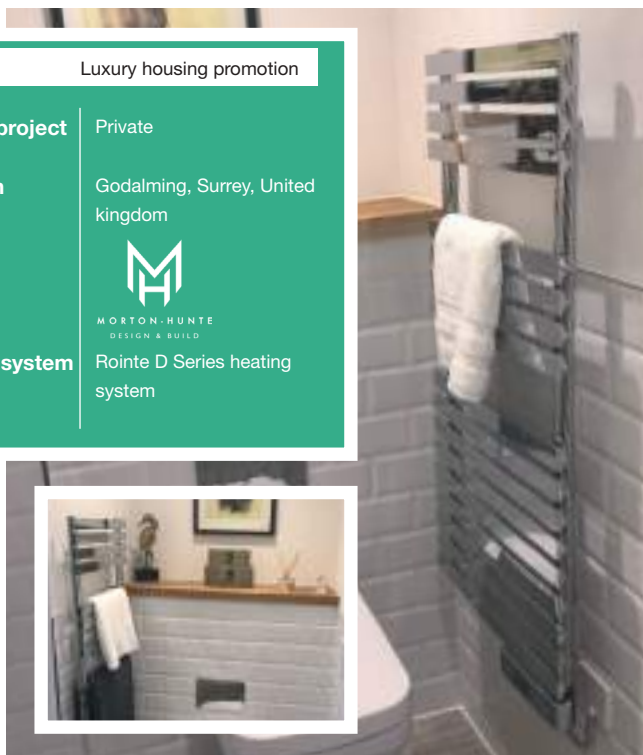
Type of project Private

Location Godalming, Surrey, United Kingdom

Client



Heating system Rointe D Series heating system



HEATING CONNECTED WITH INDIVIDUALIZED MANAGEMENT FOR EACH HOUSE

The installation of the D Series connected heating system allows every house to have a fully automated system with remote mobile management, which has increased the quality of the development and the interest of the buyers.



D SERIES D.H.W WATER HEATERS

Hot water on demand.

One particular requirement for this user was the installation of a D.H.W water heater to cover the needs of the family and visitors to their holiday home. Being installed in a holiday residence and for weekends, the user wanted the possibility of being able to turn on and control the product at any time and place, without having to physically be present at the property. His greatest wish was to be able to turn the water heater on before he arrived and switch it off when he left after the weekend.

THE SOLUTION

Based on the customers requirements, the decision was taken to install a Rointe D Series 100 litre water heater, capable of being controlled by a smartphone anytime, anywhere. In addition, to increase the volume of water available and to improve energy efficiency, the energy saving kit was included in the installation.

THE RESULT

The client enjoys domestic hot water for each trip, being able to control their water heater whenever and wherever they want. In addition, thanks to the installation of the energy saving kit, they can enjoy up to 70% more hot water with the same energy consumption.

Project Private House

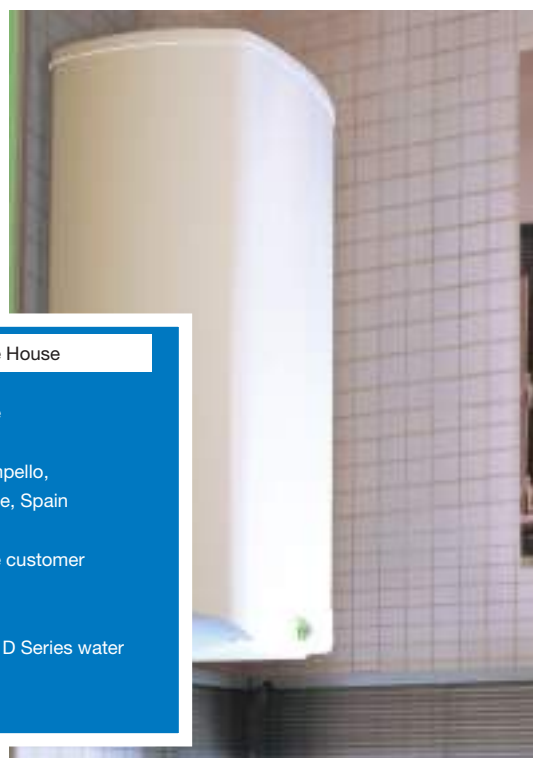
Type of project Private

Location El Campello, Alicante, Spain

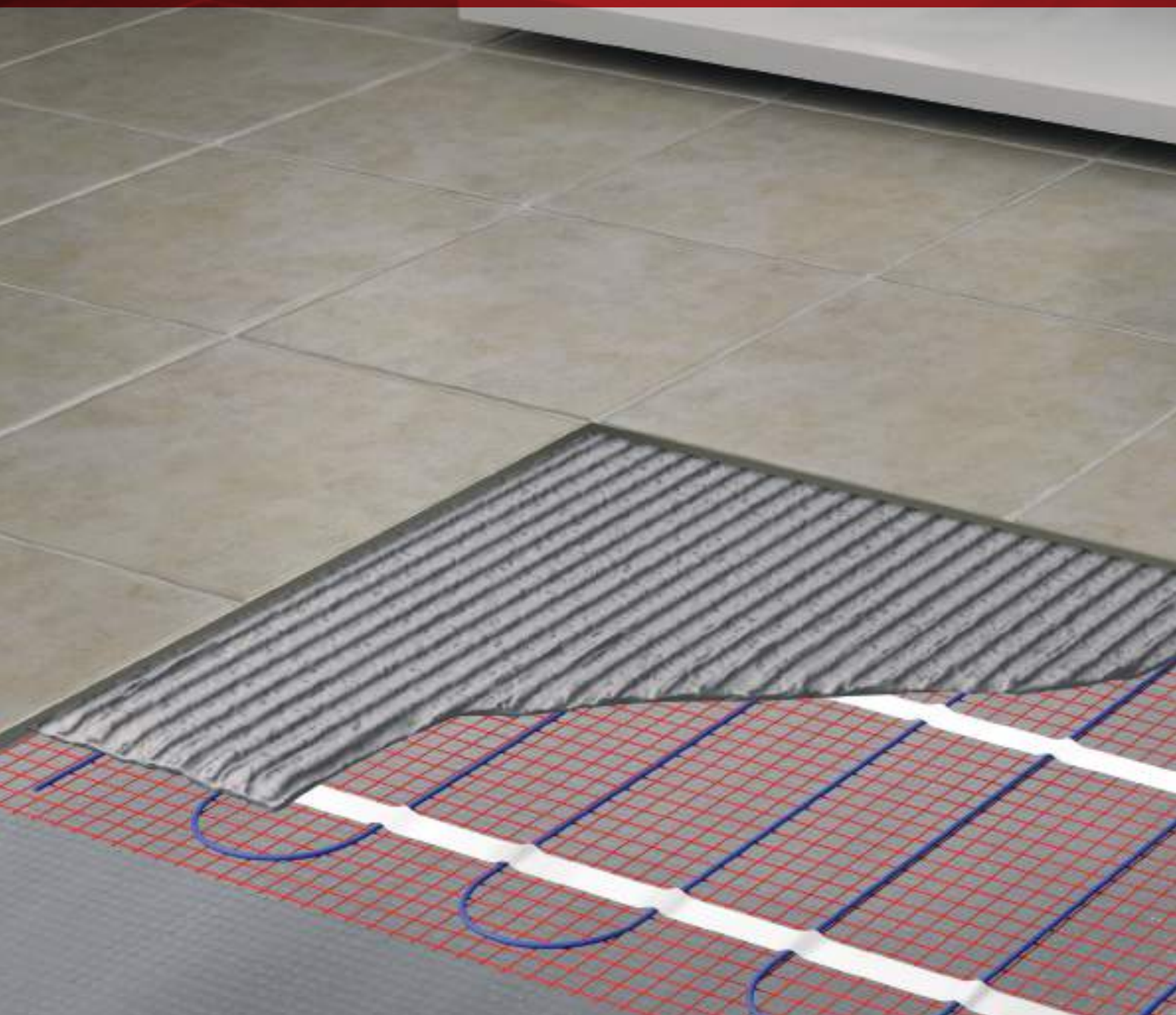
Client

Private customer

Heating system Rointe D Series water heater



Other Rointe electric heating solutions



Underfloor heating systems



Underfloor heating

ROINTE



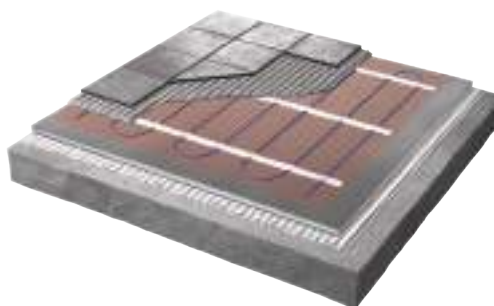
Rointe alternative heating solutions



THE NEW ROINTE HEATING SOLUTION

Discover the three new underfloor heating solutions which Rointe has designed to cope with the growing demand for this type of system in Europe.

Available in 3 models (ultra-thin, pvc, foil) it is perfect to obtain comfort and welfare that could never have been imagined.



INSTALLATION

Underfloor heating for different types of covering: ceramic or wooden.



ATRIA easy-fit
Ceramic floors
Heating cable of just
1.8mm thickness.



MILOS pvc
Ceramic floors
Heating cable of just
3mm thickness.



ERKO foil
Heating sheets for
parquet, wooden or
carpeted floors.

Rointe underfloor heating

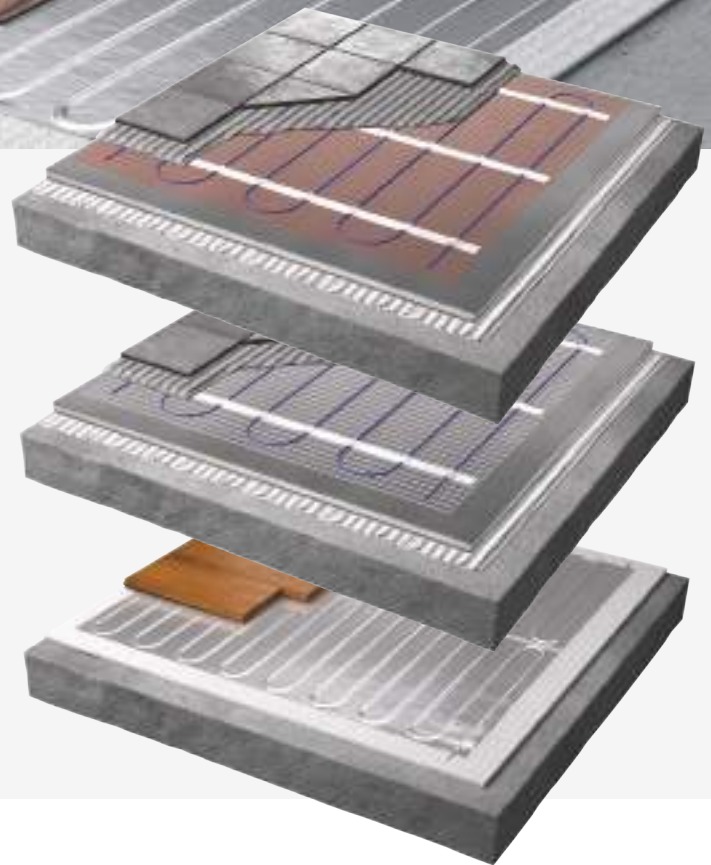
the best complement for your system.

The Rointe electric underfloor heating systems use BEAB approved ultra thin heating elements to provide real comfort from the floor surface. Rointe fluoropolymer floor heating wires are ultra thin and do not raise floor levels.



COMFORT

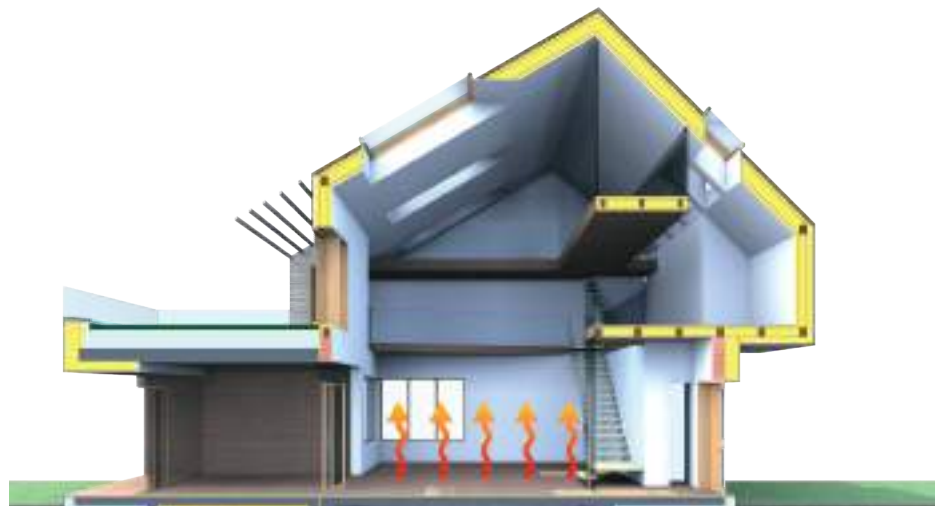
- Stable temperature
- Ideal when combined with other Rointe heating systems
- **Soft and comfortable warmth**
- Ideal for those people who want to maintain aesthetics of their rooms
- Low air speed



MIXED HEAT DISSIPATION

The heat dissipation of the Rointe underfloor heating products is made up of a perfect mix of radiation and convection.

The majority of the heat is produced by vertical radiation from the bottom upwards. The remaining heat is produced by natural air convection when the air comes into contact with the warm floor of the room.



CONNECTIVITY

CONTROL AT HOME & AWAY FROM HOME



- The system is controlled by Wi-Fi via the Rointe Connect App.

CONNECTIVITY AT HOME



- The system can be controlled via a digital thermostat.



DESIGN

INVISIBLE HEATING SYSTEM

Rointe underfloor heating systems provide comfort and well-being without installing heating products on the walls.

That's why this type of heating systems are ideal for those users who because of aesthetics, don't want to see radiators hung in their home.



IPX7

All Rointe underfloor heating systems have an IPX7 protection degree against dust and waterproof mesh.

BEST INSULATION

The special fluoropolymer insulation of the conductive wire of the Rointe underfloor supports higher temperatures than the Teflon / PVC FEP.

10 YEAR GUARANTEE

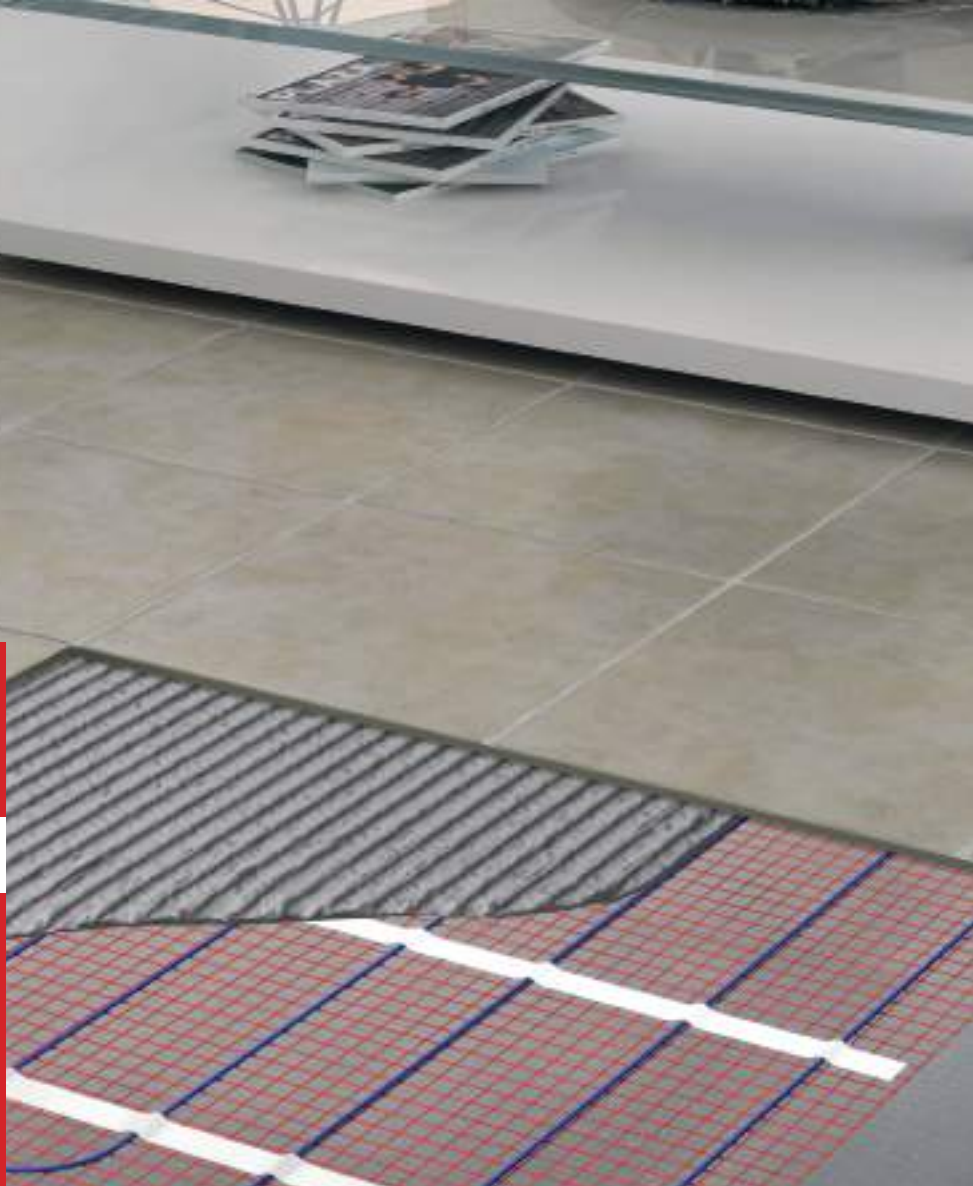
The Rointe floor systems have a 10 year guarantee and comply with all the regulations in force for heating products at national and international level.

Ceramic floors

ATRIA

Ultra-thin

ULTRATHIN
UNDERFLOOR
HEATING SYSTEM



Control Thermostats



SMART Touch

Intelligent digital thermostat with Wi-Fi connection.



Compatible with Rointe Connect App



EASY Touch

Programmable digital thermostat.

CHARACTERISTICS



THE THINNEST UNDERFLOOR HEATING ON THE MARKET

Underfloor heating with the thinnest bi-conductive heating cable – only 1.88mm thick.



MOVEABLE ADHESIVE MESH

Unlike other underfloor heating systems which are fixed using adhesive strips, the Rointe ATRIA Ultra-thin has a fine adhesive over the whole surface making it easy to move without losing the suction.



MESH ADAPTABLE TO UNEVEN SURFACES

Rointe ATRIA Ultra-thin can be fitted quickly and is 100% adaptable to whichever type of room thanks to the adhesive mesh which offers a better fixation including areas which are uneven ensuring that no part of the mesh comes unstuck when laying tiles on top.

Mechanical characteristics

- Inner/outer insulation: Fluopolymer **ECTFE** more resistant than FEP/PVC.
- Earth protection: **Copper wire** which is more resistant than the standard aluminium ones.
- Space between cables: **80 mm**.
- Width of mesh: **500 mm (0.5 m)**.



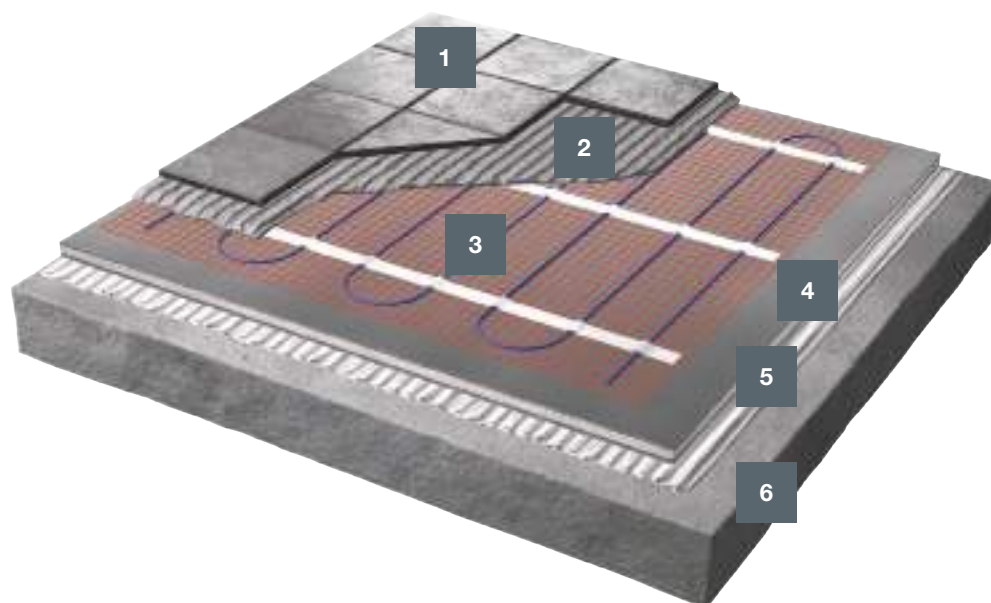
Electronic characteristics

- Supply: 220-240v : 50 Hz.
- **Mesh thickness: 3 mm (1.8 mm diameter cable)**
- Bi-conductor cable which is flexible so avoids damage if the mesh is doubled.
- Length of the cable: **Coldtail 3 m**.
- **Power: 150 W/m²**.



The Rointe **ATRIA Ultra-thin** mesh has a **10 year guarantee** and **REPLACEMENT GUARANTEE**: if the mesh is accidentally damaged during the installation, Rointe will replace it free of charge (Check conditions on page 115).

Installation design



1. Tiles
2. Flexible adhesive
3. ATRIA Ultra-thin heating mesh
4. Insulation sheet
5. Flexible cement
6. Floor basement

Dimensions

MODEL	HEATING AREA (M ²)	WIDTH X LENGTH (M)	WATTS (W)	AMPS	OHMS	EAN CODE	T.P.
MSEECT010	1	2 x 0.5	150 W	0.65	353	8437003713033	102 €
MSEECT015	1.5	3 x 0.5	225 W	0.98	235	8437003713040	129 €
MSEECT020	2	4 x 0.5	300 W	1.30	176	8437003713057	150 €
MSEECT025	2.5	5 x 0.5	375 W	1.63	141	8437003713224	183 €
MSEECT030	3	6 x 0.5	450 W	1.96	118	8437003713064	214 €
MSEECT035	3.5	7 x 0.5	525 W	2.28	101	8437003713071	238 €
MSEECT040	4	8 x 0.5	600 W	2.61	88	8437003713088	265 €
MSEECT045	4.5	9 x 0.5	675 W	2.93	78	8437003713095	291 €
MSEECT050	5	10 x 0.5	750 W	3.26	71	8437003713101	321 €
MSEECT060	6	12 x 0.5	900 W	3.91	59	8437003713231	381 €
MSEECT070	7	14 x 0.5	1,050 W	4.57	50	8437003713323	436 €
MSEECT080	8	16 x 0.5	1,200 W	5.22	44	8437003713330	478 €
MSEECT090	9	18 x 0.5	1,350 W	5.87	39	8437003713347	519 €
MSEECT100	10	20 x 0.5	1,500 W	6.52	35	8437003713354	557 €
MSEECT110	11	22 x 0.5	1,650 W	7.17	32	8437003713361	590 €
MSEECT120	12	24 x 0.5	1,800 W	7.83	29	8437003713378	644 €
MSEECT150	15	30 x 0.5	2,400 W	9.78	24	8436045911377	810 €





Ceramic floors

MILOS

pvc

UNDERFLOOR
HEATING SYSTEM



Control Thermostats



SMART Touch

Intelligent digital thermostat with Wi-Fi connection.



Compatible with Rointe Connect App



EASY Touch

Programmable digital thermostat.

CHARACTERISTICS



STRONG AND FLEXIBLE MESH

3.5 mm biconductor heating cable with 80 mm of separation between the cables installed on a fibreglass mesh.



FIXED USING A PRE INSTALLED ADHESIVE TAPE

Highly adhesive tape for an easy installation of the mesh.

Mechanical characteristics

- Interior insulation: **PTFE** which supports higher temperatures than FEP Teflon/PVC.
- Exterior insulation: **PVC**, a more flexible material than PVDF/Silicone.
- Earth protection: **aluminium cover**.
- Space between cables: **80 mm**.
- Width of mesh: **500 mm (0.5 m)**.

Electronic characteristics

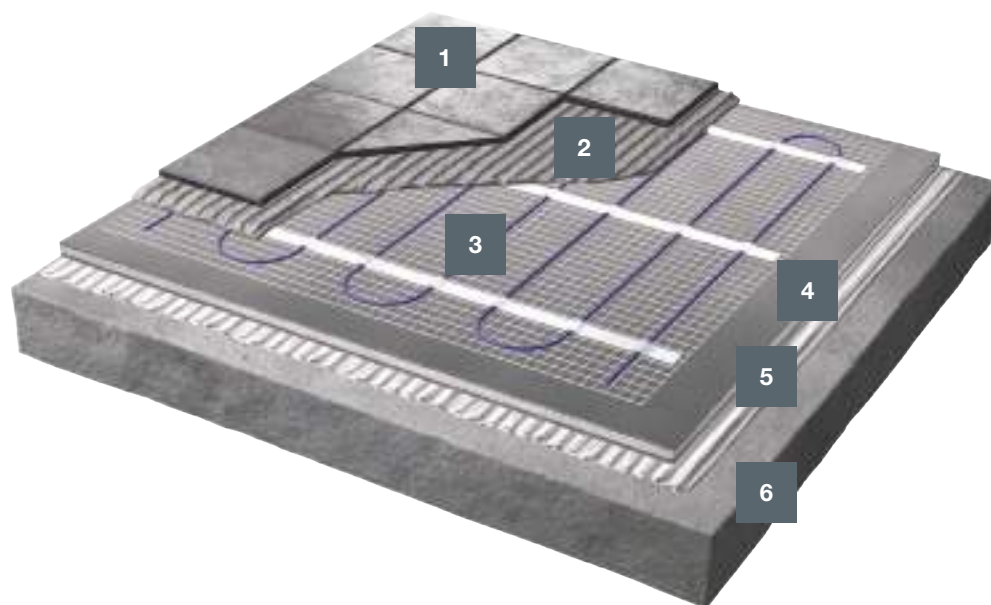


- Supply: 220-240v : 50 Hz.
- Thickness of mesh - **5 mm** (cable 3 mm in diameter).
- Bi-conductor cable which makes installation easy.
- Length of the cable: **Coldtail 3 m**.
- **Power: 150 W/m²**.



The Rointe **MILOS pvc mesh** has a **10 year guarantee** and **REPLACEMENT GUARANTEE**: if the mesh is accidentally damaged during the installation, Rointe will replace it free of charge (Check conditions on page 115).

Installation design



1. Tiles
2. Flexible adhesive
3. Heated mesh Atria easy-fit
4. Insulation sheet
5. Flexible cement
6. Floor basement

Dimensions

MODEL	HEATING AREA (M ²)	WIDTH X LENGTH (M)	WATTS (W)	AMPS	OHMS	EAN CODE	T.P.
MSEPVC010	1	2 x 0.5	150 W	0.65	353	8437003713767	46 €
MSEPVC015	1.5	3 x 0.5	225 W	0.98	235	8437003713118	70 €
MSEPVC020	2	4 x 0.5	300 W	1.30	176	8437003713125	95 €
MSEPVC025	2.5	5 x 0.5	375 W	1.63	141	8437003713132	117 €
MSEPVC030	3	6 x 0.5	450 W	1.96	118	8437003713149	142 €
MSEPVC035	3.5	7 x 0.5	525 W	2.28	101	8437003713576	165 €
MSEPVC040	4	8 x 0.5	600 W	2.61	88	8437003713583	189 €
MSEPVC045	4.5	9 x 0.5	675 W	2.93	78	8437003713279	213 €
MSEPVC050	5	10 x 0.5	750 W	3.26	71	8437003713286	235 €
MSEPVC060	6	12 x 0.5	900 W	3.91	59	8437003713293	284 €
MSEPVC070	7	14 x 0.5	1,050 W	4.57	50	8437003713309	330 €
MSEPVC080	8	16 x 0.5	1,200 W	5.22	44	8437003713316	378 €
MSEPVC090	9	18 x 0.5	1,350 W	5.87	39	8437003713156	425 €
MSEPVC100	10	20 x 0.5	1,500 W	6.52	35	8437003713163	471 €
MSEPVC120	12	24 x 0.5	1,800 W	7.83	29	8437003713187	565 €
MSEPVC150	15	30 x 0.5	2,400 W	9.78	24	8437003713194	706 €





Laminated floors, wooden floors, carpets,
vinyl floors or linoleum

ERKO

foil

UNDERFLOOR
HEATING SYSTEM

Control Thermostats



SMART Touch

Intelligent digital
thermostat with Wi-Fi
connection.



Compatible with Rointe Connect App



EASY Touch

Programmable digital
thermostat.

CHARACTERISTICS



SPECIAL LAMINATE FOR LAMINATED FLOORS, PARQUET OR CARPETS

Super thin system protected with earth wire.



EASY INSTALLATION

No need to raise the floor height.



NO NEED FOR ADDITIONAL CONNECTIONS

Ideal for normal shaped rooms where the 0.5m wide sheets can be placed on the floor in parallel without needing connectors between them.

Mechanical characteristics

- Insulation: Advance Fluoropolymer **ECTFE**.
- Earth protection: **aluminium cover**.
- Space between **cables: 80 mm**.
- Width of mesh: **500 mm** (0.5 m).



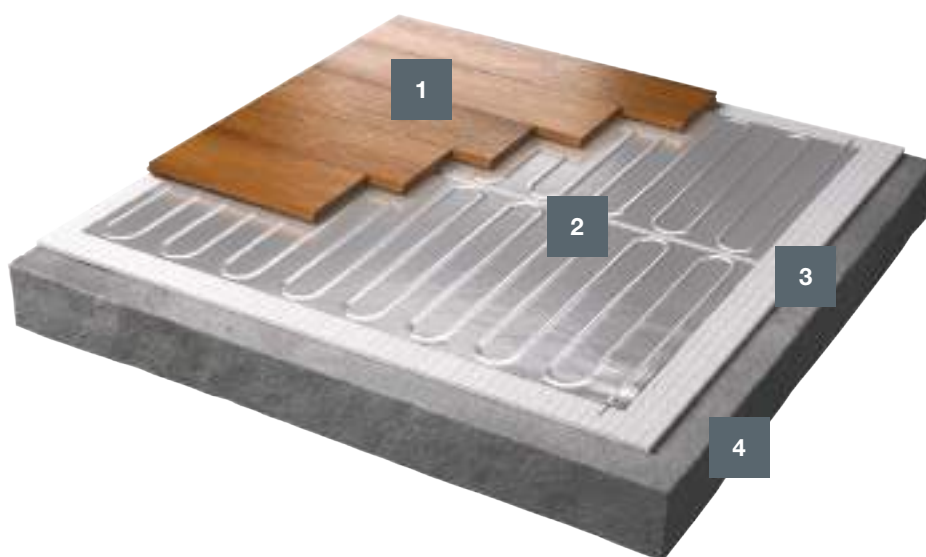
Electronic characteristics

- Supply: 220-240v : 50 Hz.
- **Thickness of sheet - 1 mm.**
- Length of the cable: **Coldtail 3 m.**
- Power : **140 W/m².**



The Rointe **ERKO foil mesh** has a **10 year guarantee** and **REPLACEMENT GUARANTEE**: if the mesh is accidentally damaged during the installation, Rointe will replace it free of charge (Check conditions on page 115).

Installation design



1. Floor
2. Heating foil - Rointe ERKO foil
3. Insulation plate
4. Floor basement

Dimensions

MODEL	HEATING AREA (M ²)	WIDTH X LENGTH (M)	WATTS (W)	AMPS	OHMS	EAN CODE	T.P.
MSEWFH010	1	2 x 0.5	140 W	0.60	378	8437003713200	69 €
MSEWFH015	1.5	3 x 0.5	210 W	0.90	252	8437003713217	82 €
MSEWFH020	2	4 x 0.5	280 W	1.20	189	8437003713248	103 €
MSEWFH030	3	6 x 0.5	420 W	1.80	126	8437003713255	158 €
MSEWFH040	4	8 x 0.5	560 W	2.40	94	8437003713262	196 €
MSEWFH050	5	10 x 0.5	700 W	3.00	76	8437003713385	243 €
MSEWFH060	6	12 x 0.5	840 W	3.70	63	8437003713392	285 €
MSEWFH070	7	14 x 0.5	980 W	4.30	54	8437003713408	330 €
MSEWFH080	8	16 x 0.5	1,120 W	4.90	47	8437003713415	375 €
MSEWFH090	9	18 x 0.5	1,260 W	5.50	42	8437003713422	423 €
MSEWFH100	10	20 x 0.5	1,400 W	6.10	38	8437003713439	469 €
MSEWFH120	12	24 x 0.5	1,680 W	7.30	32	8436045911384	560 €

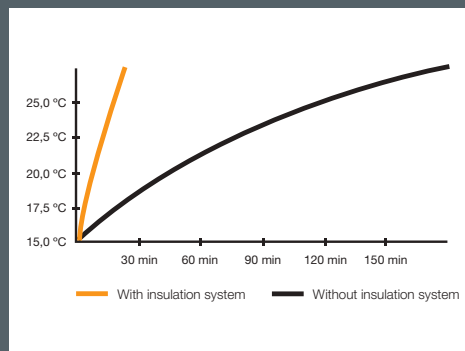




Ceramic floors

INSULATION SOLUTIONS

UNDERFLOOR HEATING SYSTEM



The Pointe insulation sheet is a waterproof sheet made of polystyrene covered on both sides by a fibreglass mesh inserted inside a fine cement brick.

It saves money as it acts as an effective insulating barrier reflecting the heat upwards to the surface.

Mechanical characteristics

- Area: 0.75 m²
- Density: 36 kg/m³
- Thermal conduction: 0.027 W/mK
- Compressive strength : 3 kg/cm² (300kN/m²)
- Water absorption (Capillary tube): Zero
- Class "O" / reaction to fire "B1"
- No need to use a liquid primer.

CHARACTERISTICS

INCREASE IN THE ENERGY EFFICIENCY

The panels help reduce the heating time by up to 90%.

STRONG BUT FLEXIBLE

The sheets are made of extruded polystyrene and can be cut to size to fit in with all kinds of rooms and surfaces.

WATER AND SOUND PROOF

The sheets are ideal for waterproofing bathrooms and kitchens and also acting as a sound barrier.

HIGH THERMAL INSULATION

The sheets act as a barrier against the cold which comes from under the floor.

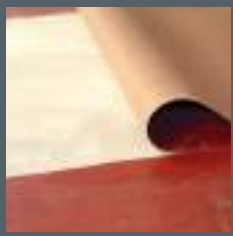


Models and sizes

MODEL	THICK (MM)	WIDTH (MM)	LENGTH (MM)	WEIGHT (KG)	U VALUE (M ² .K/W)	EAN CODE	T.P.
ASCE06	6	600	1,200	1.95	4.5	8437003713446	15 €
ASCE10	10	600	1,200	2.22	2.7	8437003713453	17 €



Protection systems for
carpet, vinyl and linoleum flooring



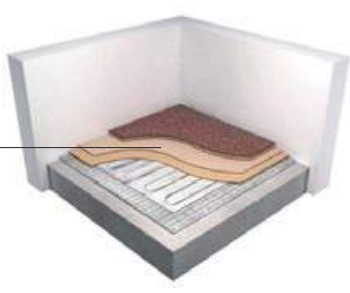
Carpet, vinyl or linoleum flooring

PROTECTION AND INSULATION SYSTEM

UNDERFLOOR HEATING SYSTEM

Upper lining system

Value R_m : 0,07



The upper lining system is a counterbalance of free flotation formed by two sheets to be used with carpets, vinyl or linoleum. Both sheets have adhesive which ensures a stable and maximum security fit.

- PROVIDES A STABLE UNDERFLOOR**
Suitable lining for all types as it is only 7 mm thick.
- PROTECTS THE HEATING MESH**
Protects the heating mesh from possible damage.

Underneath heating blanket

Value R_m : 0,19



A polystyrene insulation barrier which is situated between the ground and the mesh or heating sheet which reflects the heat upwards and ensures that the underfloor heating system is more efficient and effective. It also has a soundproofing effect.

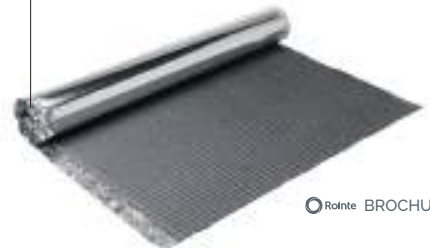
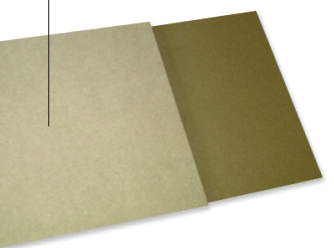
- STOPS HEAT LOSS**
Increases the energy efficiency of the heating system.
- VERY THIN AND LIGHT**
Only 6 mm thick and made of polyethylene and aluminium.

MODEL	THICK (MM)	LENGTH (MM)	HEIGHT (MM)	EAN CODE	T.P.	
ASLEDO	Upper cover	4	600	1,200	8437003713460	75 €
	Lower cover	3	600	1,200		

MODEL	THICK (MM)	WIDTH (MM)	COVERING (M ²)	EAN CODE	T.P.
ASLEU025	6	1,200	2.5	8437003713477	27 €
ASLEU050	6	1,200	5.0	8437003713484	55 €
ASLEU100	6	1,200	10	8437003713491	113 €
ASLEU250	6	1,200	25	8437003713507	284 €

- IDEAL FOR...
- Carpet
 - Vinyl
 - Linoleum

- IDEAL FOR...
- Carpet
 - Vinyl



UNDERFLOOR HEATING



SMART touch

INTELLIGENT THERMOSTAT WITH WI-FI CONNECTION



The Rointe Connect app lets you control the intelligent thermostat, Smart Touch, easily whenever you want and wherever you are.

- Full control of the underfloor heating system using any smartphone, tablet or PC.
- 24/7 programming, activate/de-activate functions and modes.
- Displays operating cost, consumption, actual and programmed temperature and savings.



AVAILABLE FINISHES	
	ONYX Black

MODEL	TSMTE01
EAN CODE	8437003713965
T.P.	201 €

CHARACTERISTICS



CONTROL VIA THE ROINTE CONNECT APP

Can be controlled via the domestic Wi-Fi using the Rointe Connect app which is available for smartphone, tablet and PC.



AUTO LEARNING MODE

Can be configured to learn the user's routine and self program accordingly.



INTELLIGENT ADJUSTMENT TO CHANGES

Intuitive heating control which adapts to changes in the user's routine without having to be re-programmed.



MONITORS ENERGY AND ADVISES HOW TO SAVE IT

Includes energy use graphs and a cost comparison. Furthermore, the Rointe Smart Touch thermostat gives intelligent ways for the user to lower their energy consumption.

Functionality

• Programming

Lets you set up to 5 Comfort Mode periods per day with whichever combination of days.

IP33



Electronic characteristics

- Supply: 220-240v : 50 Hz.
- Exit Power: **16A, 3.600 W.**
- Dimensions: **90 x 110 x 18mm** (requires a built in electric box 35mm deep)
- Screen: **72 x 54 mm full colour touch screen.**
- Sensors: Supplied with an **NTC 10K ground (3m) and air probe** (incorporated)



MODEL	TSETE01
EAN CODE	8437003713774
T.P.	108 €

AVAILABLE FINISHES	
	PIANO black



EASY touch

PROGRAMMABLE
DIGITAL THERMOSTAT

CHARACTERISTICS

- EASY TO USE INTERFACE**
 Can be used and programmed to establish programs quickly and easily.
- QUICK CONFIGURATION**
 Can be installed and configured in minutes allowing you to have control and efficient management of your heating system. Highly intuitive manner of programming.
- INTELLIGENT ENERGY CONTROL**
 Thanks to all the pre-established operation modes: Auto, Manual, Anti-Frost and Stand-by.



- Light screen which shows all the details of the programming temperature and established time.
- Easy to control with the dial and the side and lower sliders.

UNDERFLOOR HEATING

Electronic characteristics

- Supply: 220-240v :: 50 Hz. Back up battery – 3 months.
- Exit Power: **16A, 3,600 W.**
- Dimensions: **90 x 113 x 23 mm.**
- Screen: **45 x 50 mm.**
- Sensors: Supplied with an **NTC 10K ground (3 m) and air probe** (incorporated).

Functionality

- **Programming**
 Lets you set up to 5 Comfort Mode periods per day during 7 days or 5 and 2 days (week and weekend).



Services

ROINTE



The brand leader in the market **for customer service**



REASONS TO WORK WITH ROINTE

- Free-of-charge technical studies
- Marketing material and help at the point of sale
- Rointe 360° service
- Rointe Team
- Commercial advice and site visits
- Professional training courses and seminars
- Technical support and Customer Service
- Guarantee



HELP FOR PROFESSIONALS



The Commercial department is available to all of our clients to help and resolve any doubts or questions you may have.

+34 912 903 940

Monday to Friday from 8.30 am to 6.30 pm
(Central European Time)

1

Free professional technical studies The best calculations for any installation



HELPING THE PROFESSIONALS

Rointe always recommends that a professional installer visits to prepare a study based on the characteristics of the house or business. In this way we can ensure perfect measuring of the end user's installation.



The success of the Rointe heating systems in a property is down to correct sizing of the property.

Rointe has a team of specialist engineers who personally calculate the number of elements needed for each area depending on the heating required.

This personalized study is the guide and the reference model, which guarantees that the Rointe heating and domestic hot water system works at its optimum.

Do you need help
with **sizing and
installation?**

Send your installation
details to

export@rointe.com

and our **Technical
Department** will help
you & solve all your
doubts.



Marketing and sales material

Free and available to all our clients and installers

2

Rointe has a large selection of marketing material available to our clients and installers to help explain and sell our products.

Do you need some brochures? Do you want a display stand? Are you going to distribute leaflets and want help from Rointe? Rointe has all the options for you to carry out marketing campaigns.

You only have to get in contact with your internal Rointe contact by calling +34 912 903 940 and they will advise you how you can obtain all the tools necessary to promote and sell our products.

- Technical brochures
- POS material for wholesalers and installers
- Leaflets
- Calculation tables
- Hotel brochures
- Display stands
- Branch stickers and posters
- Van stickers
- Various promotions



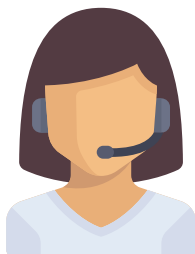
3

Rointe 360° service Support and service to answer all your questions



Rointe offers you a team of professionals to give the best answers to all your needs, before, during and after acquiring any Rointe product.

That's why we offer you a 360° solution, from start to finish.



Rointe has three specialist areas to offer our clients the maximum attention and to guarantee the best solution to all their needs.

COMMERCIAL SUPPORT

If you want to order a product, ask about delivery times or anything similar please contact our Customer Service department.

TECHNICAL SUPPORT

Don't hesitate to ask us for all the technical and economical information that you need regarding your heating and domestic hot water needs. Our engineering department can create a personalized study for you which will help you make the best choice.

AFTER SALES SUPPORT

Finally, our after sales department will personally look after you and offer the best solution to any incidents or technical doubts that you may have to ensure the best use of your heating and domestic hot water system.



Rointe Team

By your side to help in your day to day business and resolve any issues

4



Rointe has a large workforce distributed in different areas to provide support to all our customers and installers in their specific area.

Our commitment is to offer the best service in the electric heating market. Therefore, we provide contact with all our areas to get information about our products and services. We will be glad to answer all your questions and doubts related with:

- Sales
- Commercial Conditions
- Products
- Technologies
- Logistics
- Stocks
- Marketing



If you require more information about our products and services and/or want to place an order, please contact us on:



+34 912 903 940

Monday to Friday from 8.30 am to 6.30 pm (Central European Time)

5

Commercial advice and visits We can accompany you when you visit your clients in order to answer any questions



The Rointe Sales Managers are available to accompany all of our clients and installers when they visit projects or jobs.

If you would like a joint visit with a Rointe professional, please call



+34 912 903 940

Monday to Friday from 8.30 am
to 6.30 pm

(Central European Time)

Do you have a heating project? Has anyone asked you to quote for installing radiators, water heaters or towel rails in a new building or a refurbishment? Do you know that you can ask a Rointe professional to accompany you to the site? The presence of one of our professionals has many advantages.

- It lets you count on the experience and knowledge of a professional, 100% prepared expert with a vast knowledge of the heating world.
- The physical presence of a Rointe professional offers security for your client.
- With their presence Rointe backs you up as the market leader in heating.

Courses and professional seminars

Rointe trains you so that you will also become a heating professional

6

Trainings and breakfast mornings Rointe

In the new seminars and training days, Rointe attendees will discover first-hand the components that make up our products and their technical characteristics. You will learn everything about our products plus all the features and benefits so you can give the best advice to the customers.

In these meetings, we will give you the best advice for the successful closing of sales operations and thus improving the commercial prospects. In addition, we put at the disposal of the attendees all the necessary marketing materials so you can start promoting our products as soon as possible.



Our commitment with the ideas of progress, development and technology leads us to have modern and renewed facilities at production level, for the manufacturing process and the administrative area for the control and management of the company.



Come and meet us

We invite you to visit our factory and the professionals that work every day to offer you the best service.

Contact our export department and find out how you can arrange to visit our factory.

7

Technical support and Customer Services The best after-sales service in the heating sector



Rointe Technical Assistance Service

Rointe has the best team of professionals at the service of all our customers to offer them the most appropriate solution to any problem that may arise with our products, during and after their purchase.

The objective of Rointe is to offer a personal and direct service. Therefore, we are available to all our customers, installers and users not only to solve problems but also to help them solve any issue related to our products, whether related to their use or technical issues.

Our Technical Assistance Service offers the maximum coverage at the national level for the total satisfaction of our clients.

Rointe offers the maximum guarantee on repairs and always uses original parts.

Rointe Quick Response

We respond to your request in **less than 24 hours.**

Rointe has a Technical Service department of specialized and highly qualified personnel in constant training that guarantees the quality in the services provided.

We also have the most advanced diagnostics and all the necessary means to guarantee an agile response for quick resolution of incidents. Specifically, Rointe commits itself with its clients to respond to their requests in a period of time less than 24 hours.

The Rointe Technical Service department offers comprehensive coverage for all our products, from repair to replacement of equipment.



If you need help or want more information about our **Technical Support Service**, please contact us:



+34 912 908 115

Monday to Friday from 8.30 am to 6.30 pm (Central European Time)

Guarantees

The maximum guarantee and quality that only the leaders can offer

8



Radiators

10 years guarantee on the body & **2 years** on the electronics or electrical components.



Underfloor Heating

10 years guarantee on the cables and conductive filaments.



Towel rails

10 years guarantee on the body & **2 years** on the electronics or electrical components.



Thermostats

2 years guarantee for failure of the electronics or electrical components.



Domestic Hot Water Heaters

Digital water heaters

5 years guarantee on the tank & **2 years** on the electronics or electrical components.



Remote Controls and accessories

2 years guarantee for failure of the electronics or electrical components and/or any manufacturing defects.



Analogue water heaters

3 years guarantee on the tank & **2 years** on the electrical components.

Rointe: quality heating you can trust.



Price list

ROINTE 2017



Price list, colour chart and conditions of sale



ROINTE PRICE LIST 2017

- Radiators
- Towel rails
- Water heaters
- Remote controls
- Accessories
- Underfloor heating
- Underfloor heating accessories
- Control thermostats for underfloor heating



COLOUR CHART

Colour customization available for D Series radiators and towel rails.



	MODEL	ELEMENTS	POWER	EAN CODE	T.P.
D SERIES RADIATOR	DEW0330RAD	3	330 W	8436045912114	459 €
	DEW0550RAD	5	550 W	8436045912121	582 €
	DEW0770RAD	7	770 W	8436045912138	727 €
	DEW0990RAD	9	990 W	8436045912145	830 €
	DEW1210RAD	11	1,210 W	8436045912190	923 €
	DEW1430RAD	13	1,430 W	8436045912206	1,019 €
	DEW1600RAD	15	1,600 W	8436045912213	1,138 €
D SERIES RADIATOR Graphite Series	DEB0330RAD	3	330 W	8436045912220	487 €
	DEB0550RAD	5	550 W	8436045912275	617 €
	DEB0770RAD	7	770 W	8436045912282	770 €
	DEB0990RAD	9	990 W	8436045912299	880 €
	DEB1210RAD	11	1,210 W	8436045912305	978 €
	DEB1430RAD	13	1,430 W	8436045912350	1,080 €
	DEB1600RAD	15	1,600 W	8436045912367	1,206 €
D SERIES RADIATOR RAL Colour	DER0330RAD	3	330 W	8436045912374-xxxx*	563 €
	DER0550RAD	5	550 W	8436045912381-xxxx*	745 €
	DER0770RAD	7	770 W	8436045912398-xxxx*	950 €
	DER0990RAD	9	990 W	8436045911414-xxxx*	1,112 €
	DER1210RAD	11	1,210 W	8436045911421-xxxx*	1,261 €
	DER1430RAD	13	1,430 W	8436045911438-xxxx*	1,417 €
	DER1600RAD	15	1,600 W	8436045911445-xxxx*	1,594 €
SYGMA RADIATOR	SRE0330RAD2	3	330 W	8436045911889	300 €
	SRE0550RAD2	5	550 W	8436045911896	379 €
	SRE0770RAD2	7	770 W	8436045911902	474 €
	SRE0990RAD2	9	990 W	8436045911919	541 €
	SRE1210RAD2	11	1,210 W	8436045911469	601 €
	SRE1430RAD2	13	1,430 W	8436045911476	665 €
	SRE1600RAD2	15	1,600 W	8436045911483	743 €
SYGMA RADIATOR Conservatory	SRE1100RADC2	11	1,100 W	8436045914231	557 €
	SRE1300RADC2	13	1,300 W	8436045914248	615 €
	SRE1500RADC2	15	1,500 W	8436045914255	687 €

	MODEL	HEIGHT	POWER	EAN CODE	T.P.
D SERIES TOWEL RAIL White	DTE030SEW	855 mm	300 W	8436045911452	578 €
	DTE045SEW	1,175mm	450 W	8436045911469	657 €
	DTE060SEW	1,490 mm	600 W	8436045911476	716 €
	DTE075SEW	1,810 mm	750 W	8436045911483	772 €
D SERIES TOWEL RAIL Graphite Series	DTE030SEB	855 mm	300 W	8436045911582	669 €
	DTE045SEB	1,175mm	450 W	8436045911636	814 €
	DTE060SEB	1,490 mm	600 W	8436045911643	912 €
	DTE075SEB	1,810 mm	750 W	8436045911650	986 €
D SERIES TOWEL RAIL Chrome	DTE030SEC	855 mm	300 W	8436045911490	761 €
	DTE045SEC	1,175mm	300 W	8436045911506	924 €
	DTE060SEC	1,490 mm	450 W	8436045911568	1,072 €
	DTE075SEC	1,810 mm	600 W	8436045911575	1,195 €
D SERIES TOWEL RAIL RAL Colour	DTE030SER	855 mm	300 W	8436045911667-xxxx*	719 €
	DTE045SER	1,175mm	450 W	8436045911711-xxxx*	864 €
	DTE060SER	1,490 mm	600 W	8436045911728-xxxx*	962 €
	DTE075SER	1,810 mm	750 W	8436045911735-xxxx*	1,036 €
SYGMA TOWEL RAIL White	STE030SEB2	900 mm	300 W	8436045914149	261 €
	STE050SEB2	1,300 mm	500 W	8436045914156	332 €
	STE075SEB2	1,700 mm	750 W	8436045914163	375 €
	STE100SEB2	1,900 mm	1,000 W	8436045914170	414 €
SYGMA TOWEL RAIL Chrome	STE030SEC2	900 mm	300 W	8436045914064	416 €
	STE050SEC2	1,300 mm	300 W	8436045914071	536 €
	STE075SEC2	1,700 mm	500 W	8436045914088	668 €
	STE100SEC2	1,900 mm	750 W	8436045914095	719 €

	MODEL	VOLUME	POWER	EAN CODE	T.P.
D SERIES WATER HEATER	DWE050DHW2	50 L	2,400 W	8436045911797	574 €
	DWE075DHW2	75 L	2,400 W	8436045911803	680 €
	DWE100DHW2	100 L	2,400 W	8436045911810	707 €
	DWE150DHW2	150 L	2,400 W	8436045911827	900 €
	DWE200DHW2	200 L	2,400 W	8436045911872	962 €
SYGMA WATER HEATER	SWE050DHW2	50 L	2,400 W	8436045914187	416 €
	SWE075DHW2	75 L	2,400 W	8436045914194	493 €
	SWE100DHW2	100 L	2,400 W	8436045914200	512 €
	SWE150DHW2	150 L	2,400 W	8436045914217	652 €
	SWE200DHW2	200 L	2,400 W	8436045914224	697 €
RB BASIC WATER HEATER	RBE050DHW	50 L	2,400 W	8436045918307	380 €
	RBE075DHW	75 L	2,400 W	8436045918314	415 €
	RBE100DHW	100 L	2,400 W	8436045918321	445 €
	RBE150DHW	150 L	2,400 W	8436045918338	585 €
	RBE200DHW	200 L	2,400 W	8436045918345	632 €

MODEL	VOLUME	POWER	EAN CODE	T.P.	
BSE050DHW	50 L	1,200 W	8436045918352	315 €	RW BASIC WATER HEATER
BSE750DHW	75 L	1,200 W	8436045918369	362 €	
BSE100DHW	100 L	1,200 W	8436045918376	370 €	

MODEL	COLOUR	HEIGHT	EAN CODE	T.P.	
ACME120	White RAL 9010	177 mm	8436045914262	149 €	AIR CONTROL REMOTE
ACMEB120	Soft Touch Black	177 mm	8436045914545	165 €	
BCME100	White RAL 9010	155 mm	8436045911490	104 €	BASIC CONTROL

MODEL	COMPATIBLE WITH	WIDTH	EAN CODE	T.P.	
RPDW0550	DEW0330RAD / DEW0550RAD	600 mm	8436045916730	126 €	D SERIES GRILL White
RPDW0770	DEW0770RAD	760 mm	8436045916747	139 €	
RPDW0990	DEW0990RAD	920 mm	8436045916754	153 €	
RPDW1210	DEW1210RAD	1,090 mm	8436045916761	170 €	
RPDW1430	DEW1430RAD	1,260 mm	8436045916778	186 €	
RPDW1600	DEW1600RAD	1,410 mm	8436045916785	189 €	
RPDB0550	DEB0330RAD / DEB0550RAD	600 mm	8436045916808	134 €	D SERIES GRILL Graphite
RPDB0770	DEB0770RAD	760 mm	8436045916815	147 €	
RPDB0990	DEB0990RAD	920 mm	8436045916822	163 €	
RPDB1210	DEB1210RAD	1,090 mm	8436045916839	180 €	
RPDB1430	DEB1430RAD	1,260 mm	8436045916846	197 €	
RPDB1600	DEB1600RAD	1,410 mm	8436045916853	200 €	
RPK0550	SRE0330RAD2 / SRE0550RAD2	600 mm	8436045910615	105 €	SYGMA GRILL
RPK0770	SRE0770RAD2	760 mm	8436045910622	116 €	
RPK0990	SRE0990RAD2	920 mm	8436045910639	127 €	
RPK1210	SRE1210RAD2	1,090 mm	8436045910646	142 €	
RPK1430	SRE1430RAD2	1,260 mm	8436045910653	155 €	
RPK1600	SRE1600RAD2	1,410 mm	8436045910660	157 €	
RP1100	SRE1100RADC2	1,090 mm	8436045915955	130 €	SYGMA GRILL Conservatory
RP1300	SRE1300RADC2	1,260 mm	8436045915962	143 €	
RP1500	SRE1500RADC2	1,410 mm	8436045915974	156 €	

MODEL	COLOUR	WIDTH	EAN CODE	T.P.	
RSRW001	White RAL 9016	410 mm	8436045916983	70 €	SYGMA TOWELS TRAY
RSRC001	Chrome	410 mm	8436045916990	75 €	
RSRW002	White RAL 9016	410 mm	8436045917041	70 €	D SERIES TOWELS TRAY
RSRC002	Chrome	410 mm	8436045917065	75 €	
RSRB002	Graphite forge effect	410 mm	8436045917058	75 €	

MODEL	COLOUR	DEPTH	EAN CODE	T.P.	
RSHW001	White RAL 9016	35 mm	8436045917010	30 €	SYGMA TOWEL HANGERS
RSHC001	Chrome	35 mm	8436045917027	35 €	
RSHW002	White RAL 9016	35 mm	8436045917089	30 €	D SERIES TOWEL HANGERS
RSHC002	Chrome	35 mm	8436045917102	35 €	
RSHB002	Graphite forge effect	35 mm	8436045917096	35 €	

MODEL	COLOUR	FOR WATER HEATERS OF	EAN CODE	T.P.	
TPRD001	White	150 L / 200 L	8436045911315	104 €	SUPPORT TRIPOD

MODEL	EXPANSION VESSEL	COMPATIBLE WITH	EAN CODE	T.P.	
KETKW01	8 Litres	50 / 100 L	-	ask for price	INSTALLATION KIT
KETKW02	12 Litres	100 / 150 L	-	ask for price	
KETKW03	18 Litres	200 L	-	ask for price	

MODEL	CONNECTIONS SIZE	COMPATIBLE WITH	EAN CODE	T.P.	
RTVAL001	1/2"	50 L / 75 L / 100 L	8436045911353	182 €	MIXING VALVE
RTVAL002	3/4"	150 L / 200 L	8436045911360	218 €	

* The last 4 digits of the EAN code correspond to the numerical code of the desired RAL finish. See the color chart on page 109.

All prices and specifications are valid, subject to availability and release date

	MODEL	HEATING AREA (M ²)	POWER	EAN CODE	T,P
UNDER FLOOR ATRIA Ultra-thin	MSEECT010	1	150 W	8437003713033	102 €
	MSEECT015	1,5	225 W	8437003713040	129 €
	MSEECT020	2	300 W	8437003713057	150 €
	MSEECT025	2,5	375 W	8437003713224	183 €
	MSEECT030	3	450 W	8437003713064	214 €
	MSEECT035	3,5	525 W	8437003713071	238 €
	MSEECT040	4	600 W	8437003713088	265 €
	MSEECT045	4,5	675 W	8437003713095	291 €
	MSEECT050	5	750 W	8437003713101	321 €
	MSEECT060	6	900 W	8437003713231	381 €
	MSEECT070	7	1,050 W	8437003713323	436 €
	MSEECT080	8	1,200 W	8437003713330	478 €
	MSEECT090	9	1,350 W	8437003713347	519 €
	MSEECT100	10	1,500 W	8437003713354	557 €
	MSEECT110	11	1,650 W	8437003713361	590 €
MSEECT120	12	1,800 W	8437003713378	644 €	
MSEECT150	15	2,250 W	8436045911377	810 €	
UNDER FLOOR MILOS pvc	MSEPVC010	1	150 W	8437003713767	46 €
	MSEPVC015	1,5	225 W	8437003713118	70 €
	MSEPVC020	2	300 W	8437003713125	95 €
	MSEPVC025	2,5	375 W	8437003713132	117 €
	MSEPVC030	3	450 W	8437003713149	142 €
	MSEPVC035	3,5	525 W	8437003713576	165 €
	MSEPVC040	4	600 W	8437003713583	189 €
	MSEPVC045	4,5	675 W	8437003713279	213 €
	MSEPVC050	5	750 W	8437003713286	235 €
	MSEPVC060	6	900 W	8437003713293	284 €
	MSEPVC070	7	1,050 W	8437003713309	330 €
	MSEPVC080	8	1,200 W	8437003713316	378 €
	MSEPVC090	9	1,350 W	8437003713156	425 €
	MSEPVC100	10	1,500 W	8437003713163	471 €
	MSEPVC120	12	1,800 W	8437003713187	565 €
MSEPVC150	15	2,250 W	8437003713194	706 €	
UNDER FLOOR ERKO foil	MSEWFH010	1	140 W	8437003713200	69 €
	MSEWFH015	1,5	210 W	8437003713217	82 €
	MSEWFH020	2	280 W	8437003713248	103 €
	MSEWFH030	3	420 W	8437003713255	158 €
	MSEWFH040	4	560 W	8437003713262	196 €
	MSEWFH050	5	700 W	8437003713385	243 €
	MSEWFH060	6	840 W	8437003713392	285 €
	MSEWFH070	7	980 W	8437003713408	330 €
	MSEWFH080	8	1,120 W	8437003713415	375 €
	MSEWFH090	9	1,260 W	8437003713422	423 €
	MSEWFH100	10	1,400 W	8437003713439	469 €
	MSEWFH120	12	1,680 W	8436045911384	560 €
INSULATION sheets	MODEL	THICKNESS	WIDTH X HEIGHT (MM)	EAN CODE	T,P
	ASCE06	855 mm	600 x 1,200	8437003713446	15 €
	ASCE10	1,175 mm	600 x 1,200	8437003713453	17 €
PROTECTION SYSTEM + insulation	MODEL	THICKNESS	WIDTH X HEIGHT (MM)	EAN CODE	T,P
ASLEDO	Upper part 4 mm Lower part 3 mm	600 x 1,200	8437003713460	75 €	
UNDER-NEATH Heating blanket	MODEL	THICKNESS	AREA (M ²)	EAN CODE	T,P
	ASLEU025	6 mm	2,5	8437003713477	27 €
	ASLEU050	6 mm	5	8437003713484	55 €
	ASLEU100	6 mm	10	8437003713491	113 €
ASLEU250	6 mm	25	8437003713507	284 €	
THER-MOSTAT Smart Touch	MODEL	COLOUR	PROTECTION GRADE	EAN CODE	T,P
TSMTE01	ONYX Black	IP33	8437003713965	201 €	
THER-MOSTAT Easy Touch	MODEL	COLOUR	PROTECTION GRADE	EAN CODE	T,P
TSETE01	PIANO Black	IP32	8437003713774	108 €	

All prices and specifications are valid, unless type error.

ROINTE COLOUR CHART

Personalised colour available upon demand for all D Series radiators and towel rails. Call us for further details and lead times.

These colours are finished with a gloss finish. Despite every care been taken during the manufacturing process of this colour chart and of course when coating our radiators, small variations may occur between different production runs and different reference materials (ceramic, paper, metal etc.).

RAL codes and names are descriptions of manufacturer.

					
RAL 1013 Oyster white	RAL 1023 Traffic yellow	RAL 1037 Sun yellow	RAL 2003 Pastel orange	RAL 3000 Flame red	RAL 3003 Ruby red
					
RAL 6019 Pastel green	RAL 6021 Pale green	RAL 6037 Pure green	RAL 6035 Pearl green	RAL 5018 Turquoise blue	RAL 6036 Pearl opal green
					
RAL 6027 Light green	RAL 5012 Light blue	RAL 5003 Sapphire blue	RAL 5011 Steel blue	RAL 3015 Light pink	RAL 4010 Telemagenta
					
RAL 4008 Signal violet	RAL 4007 Purple violet	RAL 7038 Agate grey	RAL 7042 Traffic grey A	RAL 7010 Tarpaulin grey	RAL 7022 Umbra grey
					
RAL 7044 Silk grey	RAL 8001 Ochre brown	RAL 8015 Chestnut brown	RAL 7008 Khaki grey		



Terms and conditions of sale

1. DEFINITIONS

"Company" means ROINTE.

"Customer" means any person or organisation to whom the Company shall provide or contract to provide Goods.

"Goods" means goods sold by the Company to the Customer and including but not limited to those goods for which payment in full has not been received by the Company.

"Contract" means the Contract between the Company and the Customer for the sale of Goods.

2. GENERAL APPLICATION

2.1. These conditions apply to all Goods supplied by the Company to the Customer and no alteration or qualification of these conditions shall be effective unless agreed by the Company in writing. No order shall be binding on the Company until accepted by the Company in writing.

2.2. The Customer who orders Goods from the Company shall be deemed to agree that any written or printed conditions attached to or referred to in such orders are only binding so far as they are not at variance with the Company's Terms and Conditions.

2.3. The Customer acknowledges these terms and conditions of sale having checked them in advanced and accepting them in full. (CTR17V1-EX)

3. PRICE AND PAYMENT

3.1. All Goods must be paid for at the time of ordering unless the Company has agreed to supply on credit terms in which case the following conditions apply:

- a. Payment shall be due as per the invoice.
- b. Payment shall be made in full without deduction or set off.
- c. The Customer shall indemnify the Company in respect of all costs incurred by the Company in recovery of the price from the Customer.
- d. Payment may not be delayed under any circumstances.

3.2. Prices are subject to revision without notice and the prices payable by the Customer will be those in effect at the date of order.

3.3. Prices quoted in current price lists of the Company supersede all prices for similar goods in previous price lists.

3.4. Unless otherwise agreed in writing prices shall be stated in euro, exclusive of VAT or other governmental levies and are based on 'EXW' (Incoterms 2010).

4. CANCELLATION

4.1. No cancellation of any order from the Customer can be accepted without prior written agreement from the Company. If the Company provides written agreement to the cancellation any and all costs and expenses incurred by the Company will be paid by the Customer.

4.2. No cancellation of orders will be accepted under the following circumstances:

- a. If the order has been dispatched.
- b. If the order contains special units whose manufacturing has begun.

5. CUSTOMER RETURNS IN GOOD CONDITION

5.1. All return of goods must indicate the reference and delivery note number of such goods. With this information the Company will have to decide by written agreement the acceptance of the return prior to the return shipment. No customer returns can be accepted without prior written agreement from Rointe..

5.2. All carriage charges relating to returns made to Rointe are at the customers cost.

6. DELIVERY AND TRANSPORT

6.1. All times or dates given for the delivery of the Goods are approximate only and the Company shall not be liable for any delay in delivery of the goods howsoever caused.

6.2. The Customer must advise the Company with sufficient time in advance with the collection date that the transport agency plans to collect the ordered goods.

6.3. If according to the incoterm agreed upon (EXW), Company does not bear the transport risk, the Customer is obliged to check the goods upon delivery for any visible and/or immediately observable defects. Consequently, in case of damage of the packaging and/or of the goods caused by transport or in case of missing goods, the Customer must always make a remark on the CMR (transport document) and shall report losses and damages to the Company in writing, presenting a photo in case of damage on the goods, within 24 hours of actual receiving the goods.

6.4. The Company shall be entitled to delay or cancel delivery or to reduce the amount delivered if it is prevented from or delayed in manufacturing, obtaining or delivering the Goods through any circumstances beyond its control including but not limited to strikes, lockouts, accidents, war, fire, reduction in or unavailability of power at manufacturing plant, breakdown of plant or machinery or shortage of or unavailability of raw materials from normal sources of supply.

6.5. The Company reserves the right not to supply if the Customer has outstanding invoices and the payment is overdue. The customer in this case will be on stop.

7. DELIVERY CONDITIONS

7.1. The products are supplied packaged with brackets, screws and fixings the cost of which is included in the sale price.

7.2. Confirmed orders may be supplied in partial deliveries. The Customer should check the goods and write "received pending checking" next to the signature in the haulier's delivery note.

8. GUARANTEE

8.1. 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 details.

9. DEBIT NOTES

9.1. The Company reserves the right not to accept debit notes received by the Customer.

9.2. No debit note from the Customer can be accepted without prior written agreement of the Company and the Company provides written agreement to process the debit Rointe official price list 2016-2017.

10. RISK AND TITLE

10.1. Risk in respect of any Goods connected with the Contract shall pass to the Customer at the time of delivery by the Company.

10.2. Title to the Goods shall not pass to the Customer until the Customer has paid the total price to the Company.

10.3. The Customer is not the agent of the Company for the purposes of any sale of the Goods and for the avoidance of doubt it is hereby declared that on no account has the Customer or its receiver or liquidator or trustee in bankruptcy any authority to sell the Goods when in receivership liquidation or bankruptcy or when the same is about to occur.

11. EXCLUSION OF LIABILITY

11.1. Except in respect of death or personal injury caused by the negligence of the Company or its agents, officials or employees (being negligence defined by Council Directive 93/13/EEC) the Company shall not be liable to the Customer by reason of any representation implied warranty condition or other term or any duty at common law or under any contract or for any economic loss, loss of production, loss of bargain, loss of profit or any other costs expenses or other claims for consequential compensation whatsoever which arise out of or in connection with the Contract except as expressly provided in these conditions and PROVIDED ALWAYS that the maximum liability of the Company in relation to any loss or damage shall in no case exceed the price in the Contract.

12. REPRESENTATIONS

12.1. The Company's employees or agents are not authorized to make any representations concerning the Goods unless confirmed by the Company in writing.

13. SHORTAGES

13.1. Shortages should be identified at the time of delivery and noted on the face of proof of delivery document which should be signed by the Customer indicating acceptance of the delivery as specified or amended.

13.2. Failure to note alleged shortages at the time of delivery shall prevent the Customer from claiming under the Contract.

13.3. The customer cannot claim compensation under any circumstances.

14. EUROPEAN STANDARD

14.1. The Goods shall be supplied by the Company in accordance with the relevant European standard applying to such Goods.

15. WARRANTY

15.1. Where any Goods (or any part thereof) are shown to the reasonable satisfaction of the Company to be defective by reason of faulty material or workmanship within a period of twelve months from the date of installation in respect of domestic heaters or water heaters or twelve months from the date of delivery in the case of Goods supplied for use in homes or professional areas the Company shall at its sole option:

a. Deliver replacement Goods or any part or parts thereof free of charge.

b. The liability of the Company under these terms and conditions shall be accepted by the Customer in substitution for and to the exclusion of any other claims for direct loss which the Customer has or may have.

c. The Customer should revise the instructions manual and bear in mind the Company recommendations.

16. UNDERFLOOR HEATING SYSTEM REPLACING GUARANTEE

In order for the replacement guarantee to be valid, all installation procedures recommended in the Installation Manual must be followed. Failure to follow the instructions will invalidate the guarantee. If the installer makes a mistake and damages the net prior to placing the siding, he can return the damaged mesh within 30 days of purchase along with the original invoice with the purchase date. ROINTE WILL REPLACE ANY MESH THAT HAS NOT BEEN COVERED (MAXIMUM 1 MESH) WITH MESH NETWORK OF THE SAME MODEL - FREE.

If damage occurs during coating installation, contact Rointe. Our After Sales Service will offer you the best solution for each case. Remember that you will need to send the purchase invoice to Rointe.

Note:

(i) Repaired networks have a 5 year guarantee only. In no event will Rointe be responsible for the repair or replacement of damaged tiles during the repair of the network.

(ii) The replacement guarantee does not cover any other damage, misuse or improper installation due to improper adhesive or subsoil conditions. Limit one free replacement network per client or installer.

(iii) Damage to the network that occurs after coating, such as lifting a damaged tile once the coating has been placed, or the movement of the subfloor causing damage to the floor, is not covered by the replacement guarantee.

17. HEALTH AND SAFETY

17.1. All Goods are supplied by the Company to the Customer with appropriate fitting and other instructions relating to the fitting and installation of Goods. Certain goods are supplied accompanied by written recommendation from the Company that they should only be fitted or installed by expert and skilled workers and it shall be the responsibility of the Customer to ensure that where the Goods are sold on to a third party they are accompanied by all appropriate safety and fitting instructions.

17.2. Where the Customer fits and installs the Goods itself it shall ensure that the contents of all the safety and fitting instructions are specifically drawn to the attention of its employees.

17.3. The Customer hereby undertakes to take such measures as are communicated in writing to the Customer by the Company and to take such other steps which are sufficient to ensure, so far as is reasonably practicable, that the Goods will at all times be safe and without risk to health when properly used. The Goods shall not be regarded as properly used when they are used without regard to any relevant information or advice relating to their use which is communicated to the Customer by the Company.

17.4. The Customer shall indemnify and keep indemnified the Company in respect of all claims, actions, proceedings, costs, expenses, loss or damage (whether direct, indirect, economic or consequential) including without prejudice to the generality hereof any monetary penalty or fine in respect of or in connection with the Goods arising out of any one or more of the following:

a. under the Health and Safety at work Directive 89/391/EEC amended or any regulations orders or directions made thereunder.

b. Resulting from any breach of the Customer's obligations under this terms and conditions.

c. Under the Consumer Protection Directive 85/374/EEC or any statutory replacement therefor in respect of Goods which were not defective at the time when they were supplied to the Customer.

18. MAINTENANCE

18.1. Radiator

The radiator does not need any maintenance. We recommend cleaning the entire product (rear, lower radiator, upper fins, etc.). Do not use any abrasive on the aluminum, wipe it with a damp cloth and neutral pH soap and the screen with a dry cloth.

To avoid overheating, do not cover the heating appliance. Do not insert any object inside the air inlet and outlet. Do not operate with wet hands. Do not place items containing water, such as glasses, vases, etc., on the radiator. Do not use insecticides, paints or aerosols on the radiator. Do not sit on the radiator or place anything in front of it.

18.2. Towel rails

The towel rails do not need any maintenance. We recommend cleaning the entire product. Do not use any abrasive product on the steel body, wipe it with a damp cloth and neutral pH soap and screen with a dry cloth.

18.3. Water heaters

The Rointe water heaters do not need any special maintenance, except for an annual review of the magnesium anode. To clean the thermostat simply rub the surface with a soft cloth or damp sponge. Do not use abrasive chemicals or detergent.

The guarantee is valid from the date of purchase. In case of failure of the water heater during this period of guarantee, the complete device will be replaced. To guarantee the duration of the water heater, the user is obliged to inspect the magnesium anode wear annually and ask for its replacement in case of excessive wear.

Our guarantee will be applied with the express condition that the electric thermostat & water heater has been correctly installed with the SAFETY UNIT and the PROTECTIVE CAPS that we supply together with the product.

19. SEVERANCE

19.1. In the event that for any reason any provision or provisions in these conditions or any part thereof is or is held to be void or unenforceable or otherwise invalid any Contract made which incorporates these conditions shall continue to be fully binding and the remainder of these conditions shall continue to be effective.

20. WAIVER

20.1. The rights and remedies of the Company under the Contract shall not be diminished waived or extinguished by the granting of any indulgence, forbearance or extension of time by the Company nor by any failure of or delay by the Company in asserting or exercising any such right or remedy.

21. JURISDICTION

21.1. The conditions in each and every Contract made pursuant hereto here shall be governed by and construed in all respects in accordance with the Laws of Spain and the Company and the Customer irrevocably submits to the exclusive jurisdiction of the Murcia Courts.

21.2. These general terms of sale will apply to all trade relations between the Company and the Customers, and purchases accept these general conditions when making an order. NOTE: Rointe reserves the right to modify the configuration and presentation of the contents included within this publication. The images published in this publication may not exactly match the final installed product.

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