

# KYROS

Rointe Digital Integral  
Heating System

Season 2015 · 2016



**Digital heating and domestic hot water system**  
radiators · water heaters · towel rails





# Always one step ahead.

Rointe has been one of Europe's leading electric heating and domestic hot water (D.H.W.) manufacturers for over 30 years, resulting in a philosophy clearly committed to innovation and quality.

Our commitment is to give customers quality products, which are technologically advanced. We set the benchmark that evolves constantly so that we can offer the most innovative, sustainable and intelligent products in the heating market.

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## 100% Quality European Components

All our products are manufactured in-house with the highest quality components and latest technology. At Rointe we work with our European suppliers to guarantee the highest quality products.

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## International Prestige

Rointe is a leading European brand in electric heating. In addition to the UK, our products are sold in countries such as Portugal, France, Spain, Ireland and Greece.

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## Constant research

Rointe regularly performs tests to verify the data relating to the consumption of our products featured in tests conducted by independent laboratories.

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## Efficient and Eco-friendly

Rointes' aim is to create clean and quality heat, while ensuring the efficient management of energy. Therefore, we have developed our electric heating products to be clean, green and eco-friendly.

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## The best customer service

Rointe puts at your disposal a highly qualified team of professionals to offer the best solution to all your heating needs. Our technical department will conduct a detailed, free and no obligation study of your new Rointe heating system.

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## Warranty and after sales service

Rointe offers an efficient after sales service. Rointes' technical team personally take care of providing the best solution to any problem or technical question, to ensure the optimal operation of your Rointe heating and D.H.W. system.



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## KYROS

The perfect balance between design and functionality.

Rointe KYROS radiators, towel rails and D.H.W. systems provide your home with a pleasant and efficient heat. Made with high quality raw materials, our KYROS range has a modern, elegant and unique design.

### The perfect heating system for you...

- ” If you are looking for a heating system that unites quality and comfort, with competitive prices.
- ” If you want a heating system with the most versatile controllability and a modern and elegant style.
- ” If you want your family to enjoy the best quality heat combined with a difference on your electric bill.
- ” If you demand the highest quality, most efficient products without paying more for them. Trust the European leader in heating.

# Our latest advance in becoming energy smart.

Rointe KYROS provides the user with a complete digital integral system with the maximum quality guarantee in all of the elements with which it is made.

Thanks to the advanced Fuzzy Logic Energy Control technology, you can enjoy the comfort and wellbeing assured by Rointe.



## Consumption under control with Fuzzy Logic Energy Control.

Fuzzy Logic Energy Control is the new low power technology developed by the Rointe R & D department for the Rointe KYROS range of products. The use of Fuzzy Logic Energy Control technology has been shown in a technical comparative test conducted by independent technology centres, to reduce the consumption by 6.3%\* from the Optimizer Energy Plus, the first low power technology developed by Rointe in 2010, always carried out under certain controlled test conditions. Thanks to the introduction of this advanced technology, the KYROS radiator offers:



**110**  
watt/element



Optimum balance between w/el.

Temperature stability

Maximum efficiency

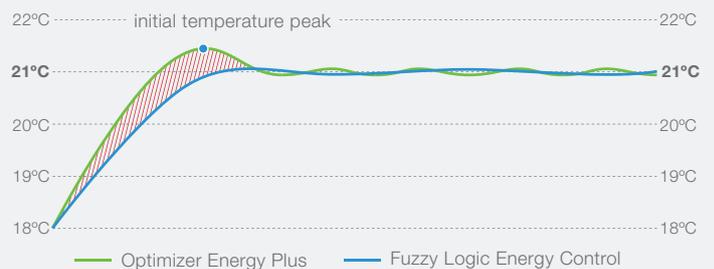
The KYROS radiator has 110 Watts per element to provide a balanced heat transfer compared to other radiators that have between 125 & 160 watts per element. With this balance each element of the radiator will heat approximately 1 m<sup>2</sup> in an extra cold area within the United Kingdom.

Fuzzy Logic Energy Control improves the management of the energy needed to keep within  $\pm 0.25^{\circ}\text{C}$  of the established temperature, analyzing fluctuations and transmitting electrical micro pulses to the element, allowing 100% heat transfer to the environment through the thermal fluid and high purity aluminium.

The effective energy management of Fuzzy Logic Energy Control enables better power management in the initial heat rise curve. This results in a saving of 6.3%\* when compared in a test with a radiator with this Rointe new technology with another that includes the Optimizer Energy Plus.

## How does it work?

As we can see in the graph, from startup and throughout the heat rise curve, the Fuzzy Logic Energy Control predicts the quantity of power required in each moment until reaching the temperature established by the user which in this case is 21°C. This technology proportionally reduces the electric power necessary to reach the desired temperature by softening the initial curve, reducing the temperature peaks and, thanks to the multiple stop-starts occurring during the stable period that follows, it favours a greater temperature stabilisation.



Fuzzy Logic Energy Control technology is a natural evolution from its predecessor Optimizer Energy Plus. It administers the product start up more efficiently and quicker thanks to a more precise control in the calculation of the energy needed.

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

## With Fuzzy Logic Energy Control.

6 **Difference of 6.3%\*** between former Rointe technology Optimizer Energy Plus and new Fuzzy Logic Energy Control.

\*Value obtained by technological centres in a climatic chamber comparing two Rointe radiators, one with Optimizer Energy Plus technology and one with Fuzzy Logic Energy Control under the same parameters defined in the test.



*did you know...*

The aluminium elements which make up the KYROS radiators have been designed to provide maximum heat dissipation through natural air convection, maintaining relative humidity within comfort limits.





# KYROS Radiator

The perfect solution for integrated heating in your home

## CHARACTERISTICS

### Fuzzy Logic Energy Control



The average power consumed by the radiator represents only 38% of its nominal power. Difference of 6.3%\* between former Rointe technology Optimizer Energy Plus.

### Left side end panel



New design with end panels on both sides to give the product a compact and consistent appearance.

### Optimized design for maximum dissipation



Maximum performance thanks to the new design of the blade like fins and 98 mm depth of each element, with volume for up to 50% more thermal fluid than other products on the market.

### SMD Electronics & Advanced technology



Multilayer surface mounted electronics incorporating Rointe ULP8 Ultra Low Power microcontroller, long lasting lithium battery and Triac as a cut off element.

### Optimal balance between watt/element



Each 110 watts per element, provides a balanced heat transmission to the surroundings.

### TFT screen



Latest generation high contrast 1.77" TFT screen for optimal viewing from any angle.

### Open windows function



Energy saving function. Activates the anti-frost mode to 8 ° C when the room temperature drops 4 ° C in 30 minutes.

### Infrared communication

[more info on page 15](#)



Programmable 24 hours per day, 7 days a week via the AIR Control infrared remote control.

### Keypad programming



Total control at the radiator itself through integrated control panel.

### Up to 20 years warranty



Total security with 20 year warranty on aluminum and 3 years on electrical and electronic components.

\*Value obtained by technological centres in a climatic chamber comparing two Rointe radiators, one with Optimizer Energy Plus technology and one with Fuzzy Logic Energy Control under the same parameters defined in the test.



**INFRARED CONTROL**

Available accessories for KYROS radiator on page 28.

Technical information on page 20.

# KYROS Radiator

## Conservatory

### low level radiator

#### CHARACTERISTICS

##### Fuzzy Logic Energy Control



Thanks to Fuzzy Logic Energy Control technology, the KYROS Conservatory radiators achieve an effective power lower than its rated power.

##### Low level product with left side end panel



New model specially designed for conservatories with end panels on both sides to give the product a compact and consistent appearance.

##### Optimized design for maximum dissipation



Maximum performance thanks to the new design of the blade like fins and 98 mm depth of each element, with volume for up to 50% more thermal fluid than other products on the market.

##### SMD Electronics & Advanced technology



Multilayer surface mounted electronics incorporating Rointe ULP8 ultra low power microcontroller, long lasting lithium battery and Triac as a cut off element.

##### Optimal balance between watt/element



Each 100 watts per element, provides a balanced heat transmission to the surroundings.

##### TFT screen



Latest generation high contrast 1.77" TFT screen for optimal viewing from any angle.

##### Open windows function



Energy saving function. Activates the anti-frost mode to 8 °C when the room temperature drops 4 °C in 30 minutes.

##### Infrared communication [more info on page 15](#)



Programmable 24 hours per day, 7 days a week via the AIR Control infrared remote control

##### Keypad programming



Total control at the radiator itself through integrated control panel.

##### Up to 20 years warranty



Total security with 20 year warranty on aluminum and 3 years on electrical and electronic components.



**INFRARED** CONTROL

Available accessories for KYROS Conservatory radiator on page 28.

Technical information on page 20.



Enjoy your conservatory all year round with the new KYROS Conservatory, the radiator developed by Rointe specially designed for these type of spaces. Its reduced height makes it perfect to install on low profile walls with big glass surface areas.





The KYROS towel rail range perfectly combines the most current design and latest Rointe technology. Thanks to its innovative control panel that allows the controllability of the product it will achieve better comfort with reduced consumption. There are three different finishes available: white, metallic or chrome; to ensure the end user total adaptability to any environment.

# KYROS towel rails

Elegance and comfort in the same product

## CHARACTERISTICS

### Curved watertight steel body



Made of a millimetre and a half thick ST12 steel, electrically welded for a perfect seal and with a curved design for greater convenience.

### Optimum relationship between heating element and thermal fluid



Class II heating element duly balanced in W per cm2 and in contact with the thermal fluid to give the product a great heat transfer power.

### SMD Electronics & Advanced technology



Multilayer surface mounted electronics incorporating Roite ULP8 ultra low power microcontroller and long lasting lithium battery.

### TFT screen



Latest generation high contrast 1.77" TFT screen for optimal viewing from any angle.

### Infrared communication [more info on page 15](#)



Programmable 24 hours per day, 7 days a week via the AIR Control infrared remote control.

### Keypad programming



Total control at the towel rail itself through the integrated control panel.

### 2H boost function



Option that sets the towel rail to maximum power continuously for two hours.

### Available in 3 different finishes



Product range with glossy white, metal and polished chrome finishes available in four different sizes.

### Up to 20 years warranty



Total security with 20 year warranty on the body of the towel rail and 3 years on electrical and electronic components.

Class II INFRARED CONTROL

## AVAILABLE FINISHES



Glossy white



Metallic



Chrome



Glossy white



Metallic



Chrome

# KYROS water heaters

A controllable and energy smart hot water solution for your home

## CHARACTERISTICS

### Fuzzy Logic Energy Control



Thanks to Fuzzy Logic Energy Control technology, the KYROS D.H.W. water heater achieves an equivalent ratio of consumption lower than its nominal power.

### Enamelled tank



Made with one and a half mm thick sheet metal with a half mm enamel coating to protect the water heater against corrosion.

### Double heating element



Steel heating elements connected in parallel work independently to guarantee hot water at all times.

### Maximum insulation



Made with a 3 cm thick rigid polyurethane foam that has a low thermal conductivity which prevents heat loss.

### SMD Electronics & Advanced technology



Multilayer surface mounted electronics incorporating Rointe ULP8 ultra low power microcontroller, long lasting lithium battery and Triac.

### TFT Screen



Latest generation high contrast 1.77" TFT screen for optimal viewing from any angle.

### Anti-legionnaires' disease protection



System that raises the temperature of the water up to 60°C for 1 hour periodically, eliminating all of the bacteria contained within the water.

### Water heating progress function



System that shows in percentage the availability of hot water at the temperature set on the control panel.

### Infrared communication

[more info on page 15](#)



Programmable 24 hours per day, 7 days a week via the AIR Control infrared remote control.

### Touch control panel



Total control from the water heater via the integrated control panel.

### Quality assurance



Total security with 5 year guarantee on the water heater body and 2 years on electrical and electronic components.

Available accessories for KYROS water heaters on page 26.

Technical Information on page 24.



## With Fuzzy Logic Energy Control.

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Thanks to Fuzzy Logic Energy Control technology, the KYROS D.H.W. water heater achieves an **equivalent ratio of consumption** lower than its nominal power.

*did you know...*

The two steel heating elements connected in parallel are installed inside two tubes, meaning that they can be swapped out without having to empty the tank.





The AIR Control infrared remote control integrates in one device the control of all KYROS heating & D.H.W. system products.

# AIR Control remote

The heating system control  
in the palm of your hand

## CHARACTERISTICS

### Ergonomic body made in PC/ABS



Made of flame retardant polycarbonate with high resistance to impacts, and an elegant design 21 mm in depth for a comfortable operation.

### Transparent wall bracket included



Functional accessory that allows the remote control to be always in the same place, avoiding dropping and losing it.

### SMD Electronics & Advanced technology



Electronic multilayered surface mounting with built-in rointe ULP4 Ultra Low Power microcontroller.

### TFT Screen



Latest generation high contrast 1.77" TFT screen for optimal viewing from any angle.

### Two-way infrared



Bi-directional wireless connection enables programming that, once sent to the product, can be received and copied into another product.

### Compact mechanical keyboard



Composed of twenty keys divided into three distinct zones corresponding to the days of the week, programming and power and auxiliary functions.

### Power by pre-installed batteries



Includes two long lasting alkaline batteries of type AAA 1.5 V.

### Glossy white finish



Finish in colour RAL 9010 high gloss white.

### Quality assurance



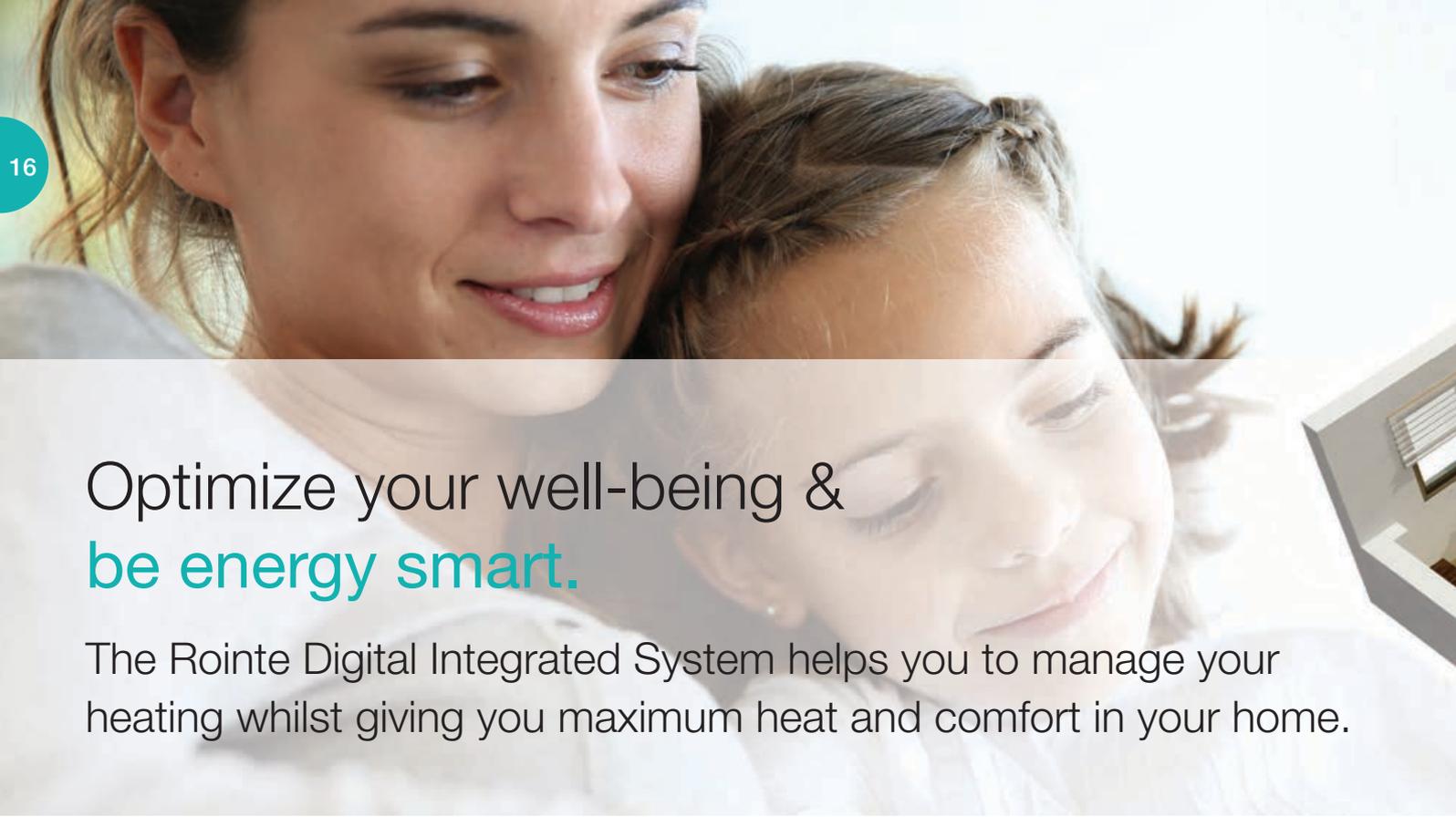
Total security with 2 years warranty on all electronic components.

**INFRARED** CONTROL

Technical Information on page 29.

## AIR Control accessories wall bracket

The Rointe AIR Control remote includes a transparent, stylish and modern wall bracket which adapts to all types of households and businesses. This handy accessory allows the remote to always be in the same place, avoiding dropping or losing it.



# Optimize your well-being & be energy smart.

The Rointe Digital Integrated System helps you to manage your heating whilst giving you maximum heat and comfort in your home.

## Why keep the house at 21°C if everyone is out during the day?

Thanks to the versatile programming available with the Rointe Digital Integrated System and with just a little effort, you can become energy smart.

To maximize your heating without affecting your comfort, you can program our heaters for every hour, a range of temperatures and rooms or areas throughout the whole week. The Rointe Digital Integrated System allows you to set your heating system exactly according to your lifestyle and daily needs.




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 **Leave the house** · It's time to go to work and school

**Program** · Sleep mode  08:00h - 18:00h

- °C  While the house is empty during the day, we will schedule our radiators in Sleep mode. During this period they will be kept waiting for the next active mode.

---

08:00 h  
▽



△  
06:00 h

---

 **It's almost time to get up** · A new day is about to begin for the whole family

**Program** · COMFORT mode  06:00h - 08:00h

21°C  An hour before getting up our radiators will raise the temperature to 21 °C so we wake up to a comfortable and warm atmosphere.

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# If the whole family is in the living room, does it make sense to heat the office?

If we think about our daily lives, there are places in our home, such as the living room or the kitchen, where we spend most of the time. Other rooms such as the bedrooms are usually only used for sleeping. Would it not be much smarter to heat only the rooms that we are actually using? With the custom programming of our radiators you can create different zones within your own house, for example, all the bedrooms, the kitchen and lounge. So you can choose to have maximum comfort in rooms that you are using, decreasing the temperature in those that you are not.



**Bedtime** · The end of the day arrives and it's time to start thinking about bed.



**Program** · ECO mode 🌙 23:00h - 04:00h

At the programmed time, our radiators go back to Eco mode at 18 °C, the temperature recommended for comfort and quality sleep.



23:00 h



18:00 h

23:00 h

Sleep Mode

Comfort Mode

Eco Mode

△  
18:00 h



**The family is about to get home** · After a productive day, it's time to go home.

**Program** · COMFORT mode ☀️ 18:00h - 23:00h

21°C



An hour before arriving home, our heating system goes into comfort mode so when you get home it's to a warm and comfortable environment.



# R.T.C. and sizing

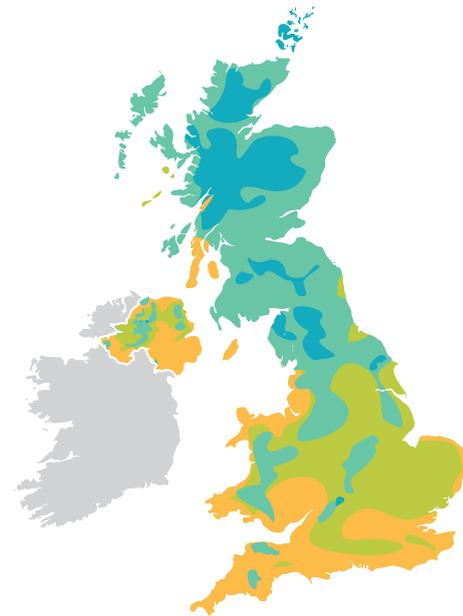
The RTC is a coefficient developed by Rointe that serves to relate the number of elements necessary for a room with its floor area and the geographical area where it is located.

With the correct sizing and using the right RTC, we will obtain a consistent consumption and effective power that is below the nominal power of the installation.

## How to obtain the R.T.C. ?

The following formula shows how the Rointe Thermal Coefficient is obtained.

$$\frac{\text{CLIMATE ZONE RATE}}{\text{OUTPUT COEFFICIENT PER ELEMENT}} = \text{R.T.C.}$$



To calculate the necessary radiators, we have to distinguish between m<sup>2</sup> and m<sup>3</sup>. For ceilings with a height less than 3 metres, we use the RTC (m<sup>2</sup>) and for higher ceilings RTC (m<sup>3</sup>).

Using the following formulas we can calculate the necessary number of elements that need to be installed. It is very important to use the correct RTC depending on the climatic zone and the ceiling height.

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

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

	Climate		R.T.C. (m <sup>2</sup> )	R.T.C. (m <sup>3</sup> )
<b>Mild</b>	436 BTU/h m <sup>2</sup>	139 BTU/h m <sup>3</sup>	0.75 elm./m <sup>2</sup>	0.23 elm./m <sup>3</sup>
<b>Cold</b>	476 BTU/h m <sup>2</sup>	159 BTU/h m <sup>3</sup>	0.80 elm./m <sup>2</sup>	0.26 elm./m <sup>3</sup>
<b>Very cold</b>	516 BTU/h m <sup>2</sup>	179 BTU/h m <sup>3</sup>	0.85 elm./m <sup>2</sup>	0.30 elm./m <sup>3</sup>
<b>Extra Cold</b>	556 BTU/h m <sup>2</sup>	198 BTU/h m <sup>3</sup>	0.90 elm./m <sup>2</sup>	0.33 elm./m <sup>3</sup>

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

$$\frac{476 \text{ BTU/h m}^2}{595 \text{ BTU/h m}^3} = 0.80 \text{ elements/m}^2$$

## Sizing KYROS radiators: reference tables

In the following tables you can find examples of calculations already made showing number of elements, room area and climate zone.

### Less than 3 meters - m<sup>2</sup>

Climate	MILD	COLD	VERY COLD	EXTRA COLD
BTU/h m <sup>2</sup>	436 BTU/h m <sup>2</sup>	476 BTU/h m <sup>2</sup>	516 BTU/h m <sup>2</sup>	556 BTU/h m <sup>2</sup>
R.T.C.	0.75 elm. / m <sup>2</sup>	0.80 elm. / m <sup>2</sup>	0.85 elm. / m <sup>2</sup>	0.90 elm. / m <sup>2</sup>
<b>3 ele.</b>	Up to 4 m <sup>2</sup>	Up to 4 m <sup>2</sup>	Up to 4 m <sup>2</sup>	Up to 3 m <sup>2</sup>
<b>5 ele.</b>	Up to 7 m <sup>2</sup>	Up to 6 m <sup>2</sup>	Up to 6 m <sup>2</sup>	Up to 6 m <sup>2</sup>
<b>7 ele.</b>	Up to 10 m <sup>2</sup>	Up to 9 m <sup>2</sup>	Up to 8 m <sup>2</sup>	Up to 8 m <sup>2</sup>
<b>9 ele.</b>	Up to 12 m <sup>2</sup>	Up to 11 m <sup>2</sup>	Up to 11 m <sup>2</sup>	Up to 10 m <sup>2</sup>
<b>11 ele.</b>	Up to 15 m <sup>2</sup>	Up to 14 m <sup>2</sup>	Up to 13 m <sup>2</sup>	Up to 12 m <sup>2</sup>
<b>13 ele.</b>	Up to 18 m <sup>2</sup>	Up to 16 m <sup>2</sup>	Up to 15 m <sup>2</sup>	Up to 15 m <sup>2</sup>
<b>15 ele.</b>	Up to 20 m <sup>2</sup>	Up to 19 m <sup>2</sup>	Up to 18 m <sup>2</sup>	Up to 17 m <sup>2</sup>

### More than 3 meters - m<sup>3</sup>

Climate	MILD	COLD	VERY COLD	EXTRA COLD
BTU/h m <sup>3</sup>	139 BTU/h m <sup>3</sup>	159 BTU/h m <sup>3</sup>	179 BTU/h m <sup>3</sup>	198 BTU/h m <sup>3</sup>
R.T.C.	0.23 elm. / m <sup>3</sup>	0.26 elm. / m <sup>3</sup>	0.30 elm. / m <sup>3</sup>	0.33 elm. / m <sup>3</sup>
<b>3 ele.</b>	Up to 15 m <sup>3</sup>	Up to 13 m <sup>3</sup>	Up to 11 m <sup>3</sup>	Up to 10 m <sup>3</sup>
<b>5 ele.</b>	Up to 23 m <sup>3</sup>	Up to 21 m <sup>3</sup>	Up to 18 m <sup>3</sup>	Up to 16 m <sup>3</sup>
<b>7 ele.</b>	Up to 32 m <sup>3</sup>	Up to 28 m <sup>3</sup>	Up to 25 m <sup>3</sup>	Up to 22 m <sup>3</sup>
<b>9 ele.</b>	Up to 41 m <sup>3</sup>	Up to 36 m <sup>3</sup>	Up to 31 m <sup>3</sup>	Up to 28 m <sup>3</sup>
<b>11 ele.</b>	Up to 50 m <sup>3</sup>	Up to 44 m <sup>3</sup>	Up to 38 m <sup>3</sup>	Up to 34 m <sup>3</sup>
<b>13 ele.</b>	Up to 58 m <sup>3</sup>	Up to 51 m <sup>3</sup>	Up to 45 m <sup>3</sup>	Up to 40 m <sup>3</sup>
<b>15 ele.</b>	Up to 67 m <sup>3</sup>	Up to 59 m <sup>3</sup>	Up to 51 m <sup>3</sup>	Up to 46 m <sup>3</sup>

## Sizing Short KYROS radiators: reference tables

<b>11 ele.</b>	Up to 9 m <sup>2</sup>	Up to 8 m <sup>2</sup>	Up to 7 m <sup>2</sup>	Up to 7 m <sup>2</sup>
<b>13 ele.</b>	Up to 10 m <sup>2</sup>	Up to 9 m <sup>2</sup>	Up to 9 m <sup>2</sup>	Up to 8 m <sup>2</sup>
<b>15 ele.</b>	Up to 12 m <sup>2</sup>	Up to 11 m <sup>2</sup>	Up to 10 m <sup>2</sup>	Up to 9 m <sup>2</sup>

<b>11 ele.</b>	Up to 27 m <sup>3</sup>	Up to 24 m <sup>3</sup>	Up to 21 m <sup>3</sup>	Up to 19 m <sup>3</sup>
<b>13 ele.</b>	Up to 32 m <sup>3</sup>	Up to 28 m <sup>3</sup>	Up to 25 m <sup>3</sup>	Up to 22 m <sup>3</sup>
<b>15 ele.</b>	Up to 37 m <sup>3</sup>	Up to 32 m <sup>3</sup>	Up to 29 m <sup>3</sup>	Up to 26 m <sup>3</sup>

## Towel rails recommended by area

AREA	POWER	SERIES	MODEL
Up to 3 m <sup>2</sup>	300 W	KYROS White/ Metallic	KTI030SEB2/SEM2
Up to 5 m <sup>2</sup>	500 W		KTI050SEB2/SEM2
Up to 7 m <sup>2</sup>	750 W		KTI075SEB2/SEM2
Up to 10 m <sup>2</sup>	1,000 W		KTI100SEB2/SEM2
Up to 2 m <sup>2</sup>	300 W	KYROS Chrome	KTI030SEC2
Up to 4 m <sup>2</sup>	300 W		KTI050SEC2
Up to 6 m <sup>2</sup>	500 W		KTI075SEC2
Up to 8 m <sup>2</sup>	750 W		KTI100SEC2

## Water heater recommended according to use and number of people

USERS	SIZE	USE
<b>1-2</b>	50 L	Laundry / Sink / Shower
<b>2-4</b>	75 L	Laundry / Sink / Shower
<b>2-5</b>	100 L	Laundry / Sink / Small Bath
<b>3-6</b>	150 / 200 L	Laundry / Sink / Shower / Small Bath

# Calculation example

for a household of 80 m<sup>2</sup>  
in cold climate zone with KYROS

Estimated calculation for an 80m<sup>2</sup> dwelling located within a cold area of the UK providing 12 hours/day-night maintaining the radiators' set temperature at 21°C.



Sample calculation in M<sup>2</sup> (ceiling height less than 3 metres). Well insulated and double glazed.

ROOM	m <sup>2</sup>	RTC	N° OF ELEMENTS	PRODUCTS	NOM. POWER	CONSUMPTION COEFFICIENT RATIO	EFF. POWER
Living room	19	0.80	15	1 x KRI1600RAD2	1,600 W	38%	608.00 W
Kitchen	14	0.80	11	1 x KRI1210RAD2	1,210 W	38%	459.80 W
Hall	9	0.80	7	1 x KRI0770RAD2	770 W	38%	292.60 W
Bathroom	6	0.80	5	1 x KRI0550RAD2	550 W	38%	209.00 W
Bedroom 1	12	0.80	9	1 x KRI0990RAD2	990 W	38%	376.20 W
Bedroom 2	10	0.80	7	1 x KRI0770RAD2	770 W	38%	292.60 W
Bedroom 3	10	0.80	7	1 x KRI0770RAD2	770 W	38%	292.60 W
<b>80 m<sup>2</sup></b>			<b>61</b>	<b>7</b>	<b>6,660 W</b>	<b>38%</b>	<b>2,530.80 W</b>

KYROS radiator : calculation of effective power

### ⊙ Calculation of effective power

NOMINAL POWER	EQ. RATIO OF CONSUMPTION	EFFECTIVE POWER
6,660 W	38%	2.53 KW

The Rointe KYROS radiator to maintain a stable temperature of 21°C for 12 hours just needs an equivalent ratio of consumption of only the 38% of its nominal power.

### ⊙ Calculating the daily / monthly cost

EFFECTIVE POWER	HOURS OF HEATING	UNIT RATE	DAILY COST	MONTHLY COST
2.53 kW	12 h	£ 0.115	£ 3.49	£ 104.70

Remember that these are estimates and should be considered as an average. It is mandatory that a personalised study is carried out by a Rointe qualified installer or the Rointe technical team.

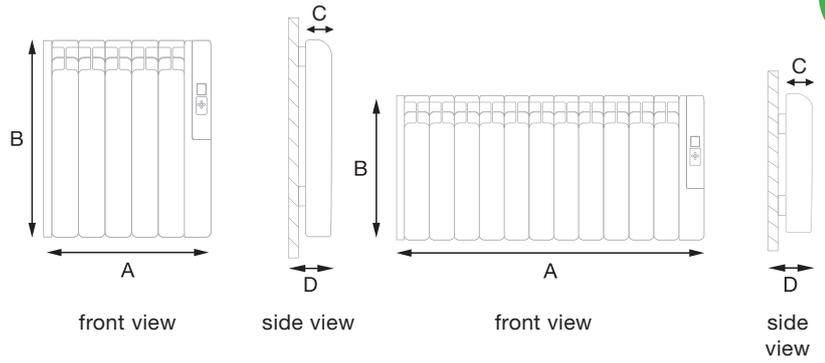
MODELS	KRI0330RAD2	KRI0550RAD2	KRI0770RAD2	KRI0990RAD2	KRI1210RAD2	KRI1430RAD2	KRI1600RAD2
N° of elements	3	5	7	9	11	13	15
<b>DIMENSIONS</b>							
A (mm) - Width	350	520	680	840	1,010	1,180	1,330
B (mm) - Height	580	580	580	580	580	580	580
C (mm) - Depth	98	98	98	98	98	98	98
D (mm) - Installed depth	120	120	120	120	120	120	120
<b>MECHANICAL CHARACTERISTICS</b>							
Armoured steel heating element	●	●	●	●	●	●	●
High purity aluminium	●	●	●	●	●	●	●
Thermal oil	●	●	●	●	●	●	●
PC/ABS panel with keypad	●	●	●	●	●	●	●
Left side cover PC/ABS	●	●	●	●	●	●	●
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
Colour	White RAL 9010						
<b>ELECTRICAL CHARACTERISTICS</b>							
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 ~						
Current (A)	1.5	2.4	3.4	4.3	5.3	6.2	7.0
<b>FUNCTIONALITY</b>							
TFT screen (1.77 ")	●	●	●	●	●	●	●
Manual / Automatic function	●	●	●	●	●	●	●
Eco / Comfort mode / Antifrost	●	●	●	●	●	●	●
Open windows function	●	●	●	●	●	●	●
Screen brightness	●	●	●	●	●	●	●
Nominal and effective power	●	●	●	●	●	●	●
Programmable 24/7 using keyboard and / or AIR Control	●	●	●	●	●	●	●
<b>PERFORMANCE AND SECURITY</b>							
Fuzzy Logic Energy Control	●	●	●	●	●	●	●
Roente ULP8 Microcontroller	●	●	●	●	●	●	●
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)**	40 °C						
Protection grade	IP21						
<b>INSTALLATION</b>							
Template & Installation kit	●	●	●	●	●	●	●
<b>CERTIFICATIONS</b>							
2004/108/CE Electromagnetic Compatibility	●	●	●	●	●	●	●
2006/95/CE Electronic Security	●	●	●	●	●	●	●
<b>EAN CODE</b>	8436045913296	8436045913302	8436045913319	8436045913326	8436045913333	8436045913340	8436045913357
<b>TP</b>	<b>£ 271.00</b>	<b>£ 343.00</b>	<b>£ 429.00</b>	<b>£ 490.00</b>	<b>£ 544.00</b>	<b>£ 602.00</b>	<b>£ 672.00</b>

● incorporated ○ not incorporated □ optional × unavailable / not applicable

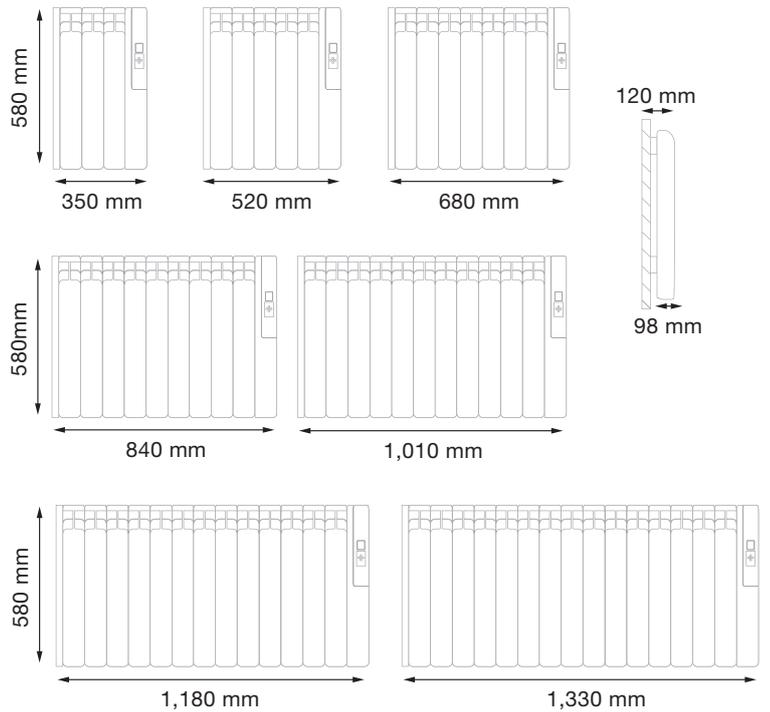
\* The effective power is the actual power required to heat a room of 12m<sup>2</sup> with a set temperature of 21°C, always under certain parameters and according to the results of the tests performed by independent laboratories in a climatic chamber. \*\* Average surface temperature obtained with the radiator temperature set to 21°C.

KRI1100RADC2	KRI1300RADC2	KRI1500RADC2
11	13	15
1,010	1,180	1,330
420	420	420
98	98	98
120	120	120
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
17,9	21,4	24,8
19,3	22,5	25,9
White RAL 9010		
1,100	1,300	1,500
×	×	×
230 V ~	230 V ~	230 V ~
4.8	5.7	6.5
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
±0.25	±0.25	±0.25
< 0.1	< 0.1	< 0.1
100	100	100
●	●	●
40 °C	40 °C	40 °C
IP21	IP21	IP21
●	●	●
●	●	●
●	●	●
8436045914293	8436045914309	8436045914316
<b>£ 504.00</b>	<b>£ 557.00</b>	<b>£ 622.00</b>

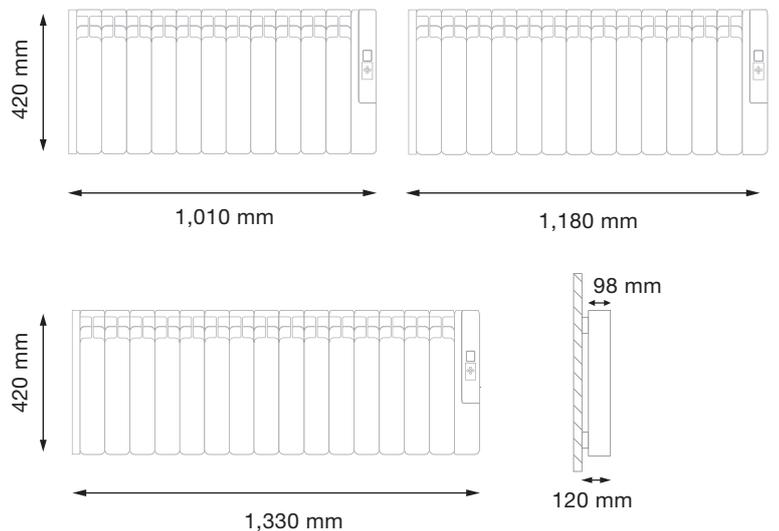
Dimensions KYROS & KYROS Conservatory



KYROS radiator model range

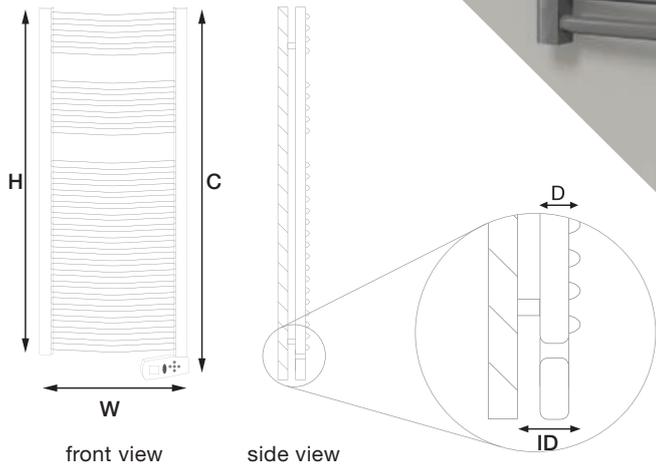


KYROS Conservatory radiator model range

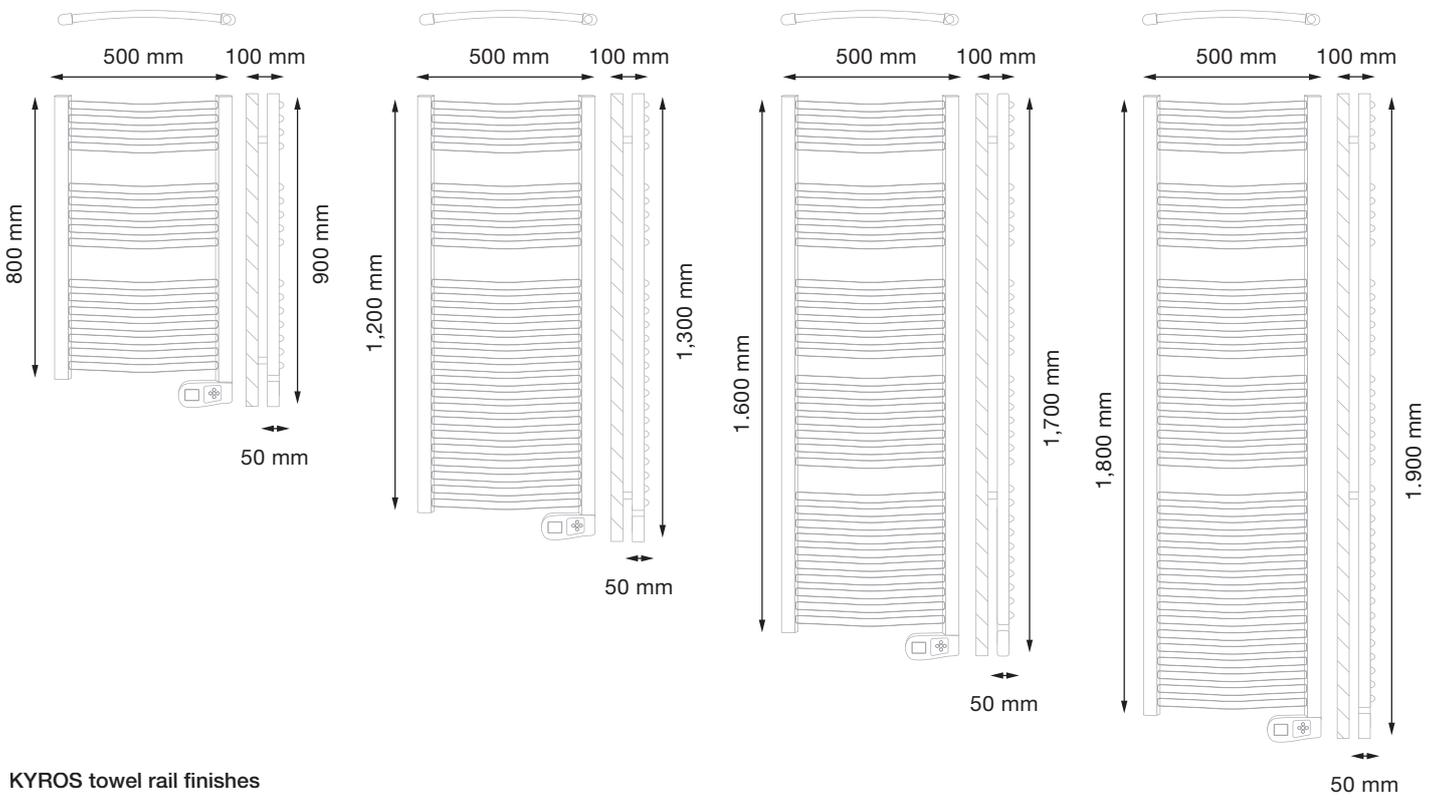


MODELS	WHITE	KTI030SEB2	KTI050SEB2	KTI075SEB2	KTI100SEB2
	METALLIC	KTI030SEM2	KTI050SEM2	KTI075SEM2	KTI100SEM2
	CHROME	KTI030SEC2	KTI050SEC2	KTI075SEC2	KTI100SEC2
<b>DIMENSIONS</b>					
W (mm) - Width		500	500	500	500
H (mm) - Height without control panel		800	1,200	1,600	1,800
C (mm) - Height with control panel		900	1,300	1,700	1,900
D (mm) - Depth		50	50	50	50
ID (mm) - Installed depth		100	100	100	100
<b>MECHANICAL CHARACTERISTICS</b>					
Armoured steel heating element		●	●	●	●
Thermal fluid		●	●	●	●
PC/ABS control panel		●	●	●	●
Weight (Kg)		11	15	22	28
Finishes	White	RAL 9016			
	Metallic	RAL 9006			
	Chrome	Chrome			
Design		Curved			
<b>ELECTRICAL CHARACTERISTICS</b>					
Nominal power (W)	White / Metallic	300	500	750	1.000
	Chrome	300	300	500	750
Voltage (V)		230 V ~	230 V ~	230 V ~	230 V ~
Current (A)	White / Metallic	1.3	2.2	3.3	4.4
	Chrome	1.3	1.3	2.2	3.3
Class II		●	●	●	●
<b>FUNCTIONS</b>					
TFT screen (1.77 ")		●	●	●	●
Manual/automatic function		●	●	●	●
Eco / comfort mode / Antifrost		●	●	●	●
Screen brightness		●	●	●	●
2 hr boost function		●	●	●	●
Programmable 24/7 via control panel or AIR Control remote		●	●	●	●
<b>PERFORMANCE AND SECURITY</b>					
Rointe ULP8 Microcontroller		●	●	●	●
Fire proof cabling		●	●	●	●
Safety thermostat		●	●	●	●
Protection grade		IP 44	IP 44	IP 44	IP 44
<b>INSTALLATION</b>					
Template		●	●	●	●
Installation kit		●	●	●	●
<b>CERTIFICATIONS</b>					
2004/108/CE Electromagnetic compatibility		●	●	●	●
2006/95/CE Electronic security		●	●	●	●
EAN CODE	WHITE	8436045913562	8436045913579	8436045913586	8436045913593
	METALLIC	8436045913487	8436045913494	8436045913500	8436045913517
	CHROME	8436045913401	8436045913418	8436045913425	8436045913432
TP	WHITE	£ 272.00	£ 346.00	£ 391.00	£ 431.00
	METALLIC	£ 401.00	£ 501.00	£ 569.00	£ 617.00
	CHROME	£ 433.00	£ 558.00	£ 696.00	£ 749.00

Dimensions

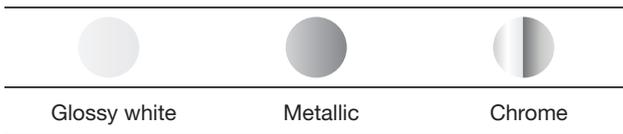


Kyros towel rail model range



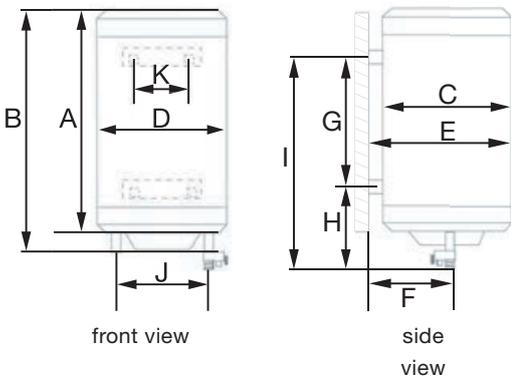
KYROS towel rail finishes

AVAILABLE FINISHES

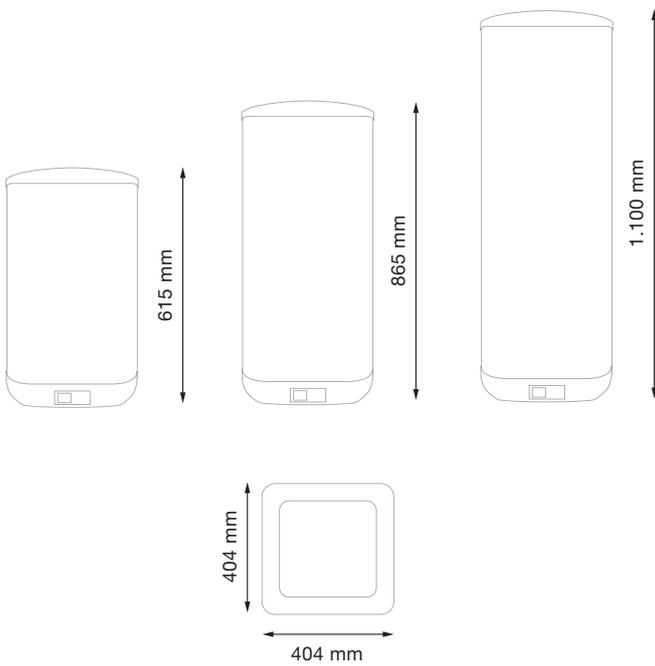


MODELS	KWI050DHW2	KWI075DHW2	KWI100DHW2	KWI150DHW2	KWI200DHW2
Volume	50	75	100	150	200
<b>DIMENSIONS</b>					
A (mm) - Height	615	865	1,100	900	1,070
B (mm) - Height with connections	685	935	1,170	960	1,120
C (mm) - Width (mm)	404	404	404	580	580
D (mm) - Depth (mm)	404	404	404	580	580
E (mm) - Installed depth (mm)	420	420	420	620	620
F (mm) - Depth from the connections to the wall	120	120	120	178	178
G (mm) - Vertical distance between fixing holes	340	573	768	490	670
H (mm) - Vertical distance from lower fixing holes and connections	215	230	275	355	355
I (mm) - Vertical distance between upper fixing holes and connections	555	803	1,043	845	1,025
J (mm) - distance between connections	160	160	160	235	235
K (mm) - Horizontal distance between fixing holes	350	350	350	350	350
<b>INSTALLATION</b>					
Position				Vertical	
Water connection (inches)	1/2"	1/2"	1/2"	3/4"	3/4"
Electrolytic fittings	●	●	●	●	●
Support Tripod (optional)	×	×	×	□	□
<b>MECHANICAL CHARACTERISTICS</b>					
Touch Pad	●	●	●	●	●
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
Colour	White RAL 9016				
<b>ELECTRICAL CHARACTERISTICS</b>					
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
Voltage (V)	230 V ~	230 V ~	230 V ~	230 V ~	230 V ~
Current (A)	10,4	10,4	10,4	10,4	10,4
<b>FUNCTIONALITY</b>					
TFT (1'77")	●	●	●	●	●
Manual/Automatic Function	●	●	●	●	●
ECO/Comfort Modes / Antifrost	●	●	●	●	●
Anti-legionella	●	●	●	●	●
Temperature evolution function	●	●	●	●	●
Screen illumination	●	●	●	●	●
Nominal and effective power	●	●	●	●	●
Programmable 24/7 via control panel and/or AIR Control	●	●	●	●	●
<b>PERFORMANCE AND SECURITY</b>					
Fuzzy Logic Energy Control	●	●	●	●	●
Rointe ULP8 Microcontroller	●	●	●	●	●
Cold water entry diffuser	●	●	●	●	●
Safety valve	●	●	●	●	●
Safety thermostat	●	●	●	●	●
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
<b>CERTIFICATIONS</b>					
004/108/EC Support Electromagnetic	●	●	●	●	●
2006/95/EC Electronic Security	●	●	●	●	●
<b>EAN CODE</b>	8436045913654	8436045913661	8436045913678	8436045913685	8436045913692
<b>TP</b>	<b>£ 630.00</b>	<b>£ 784.00</b>	<b>£ 869.00</b>	<b>£ 1,020.00</b>	<b>£ 1,157.00</b>

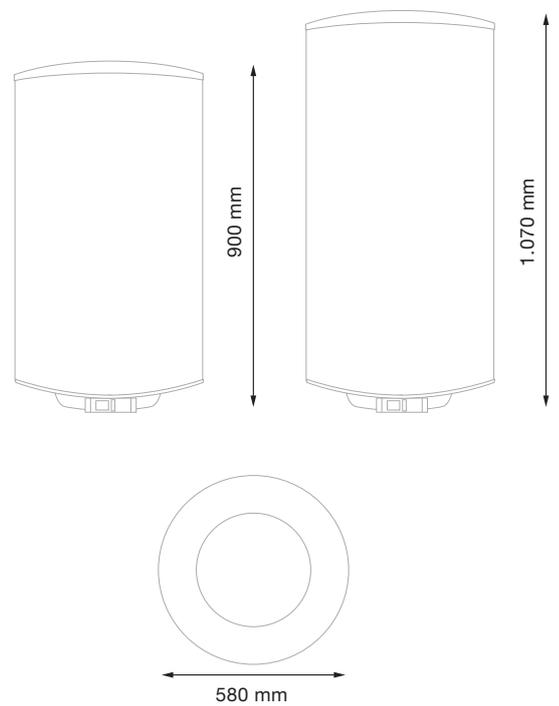
Dimensions



KYROS digital water heater range · 50 - 75 - 100 L



KYROS digital water heater range · 150 - 200 L

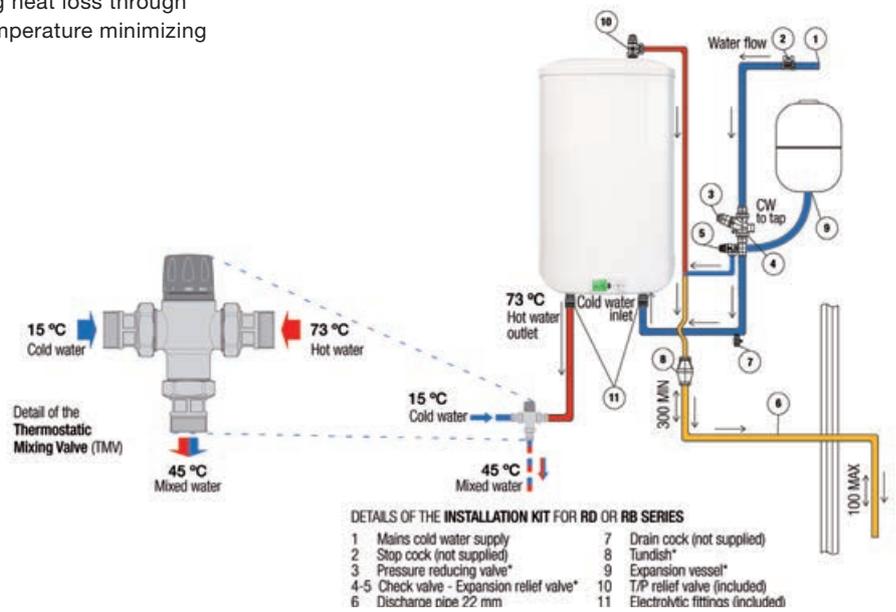


# Rointe water heater accessories

## Energy saving kit

Rointe has an energy 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 energy saving kit saves energy by minimizing heat loss through the pipes due to transporting water at a lower temperature minimizing heat loss through the pipework.



Another advantage of this kit is the increased volume of hot water available in respect to the installed heat capacity. This amount of water is defined as equivalent volume. This represents the available volume of water at 45°C (in litres), assuming the cold water inlet temperature is 15°C and the hot water from the heater is 73°C.

MODELS	KWI050DHW2	KWI075DHW2	KWI100DHW2	KWI150DHW2	KWI200DHW2
Volume (L)	50	75	100	150	200
Volume equivalent to 45°C (L)	86	133	177	266	354

## Support tripod kit

The support tripod kit consists of an easily assembled metal tripod, designed primarily because of the high weight of the 150 and 200 litre models. Installation is particularly recommended for these models where the wall brackets are not sufficient or does not ensure product stability, as these models have a high weight when they are at 100% capacity. The Tripod is designed to support up to 260 kgs ideal for the larger models. The use of this support does not exempt from mandatory fixing of the water heater to the wall as described in the instructions manual.

## Installation kit

Price list included at the end of the table

There are three kits available, depending of the size of the model. Its installation is mandatory for all models of unvented domestic hot water heaters in the United Kingdom.

MODELS	KITKW001	KITKW002	KITKW003
Compatible with	50 / 100 L	100 / 150 L	200 L
<b>CHARACTERISTICS</b>			
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
<b>EAN CODE</b>	8436045914330	8436045914347	8436045914354
<b>TP</b>	<b>£ 218.00</b>	<b>£ 219.00</b>	<b>£ 227.00</b>



MODELS	RWVAL001	RWVAL002
<b>CHARACTERISTICS</b>		
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 lime scale	≤ 65°C	
Relationship max. between inlet pressures (C / F or F / C)	2:1	
Min Temp difference between hot water inlet and mixed water outlet to avoid burns	15°C	
Minimum flow rate to ensure stable temperature	4 l/min	6 l/min
Connections	1/2" M	3/4" M
<b>DIMENSIONS</b>		
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
<b>MATERIALS</b>		
Body: chrome alloy anti rust	EN 12165 CW602N	
Shutter	PSU	
Springs	stainless steel	
<b>INSTALLATION</b>		
Position	Vert. / Horiz.	
Entry filters for hot and cold water	●	●
Hot and cold water valves	●	●
<b>SECURITY</b>		
Regulation locking nut protection	●	●
Temperature adjustment with hexagon screw top	●	●
Scald protection	●	●
<b>CERTIFICATIONS</b>		
Standard NF 079	●	●
<b>EAN CODE</b>	8436045914361	8436045914361
<b>TP</b>	£ 150.00	£ 180.00

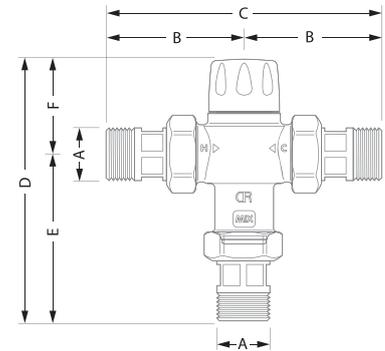
● incorporated ○ not incorporated □ optional × unavailable / not applicable

## Support tripod technical characteristics

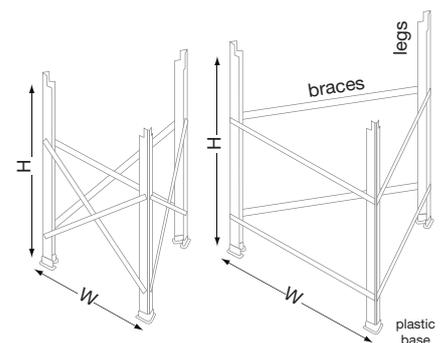


MODEL	TPKW001
<b>COMPONENTS</b>	
Legs(pcs)	3
Braces (pcs)	6
Plastic base (pcs)	3
<b>CHARACTERISTICS</b>	
Material	Metallic
Colour RAL	White RAL 9016
Maximum supported weight (kg)	260
<b>DIMENSIONS</b>	
W (mm) - Width	530
H (mm) - Height	625
<b>EAN CODE</b>	8436045914323
<b>TP</b>	£ 80.00

## Dimensions



## Dimensions



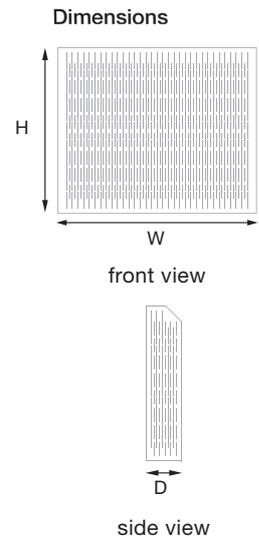
# Rointe radiator accessories

Price list included at the end of the table

## Protective grill for KYROS

Protection system specially designed for Kyros Radiators (optional), perfect to be installed in public spaces.

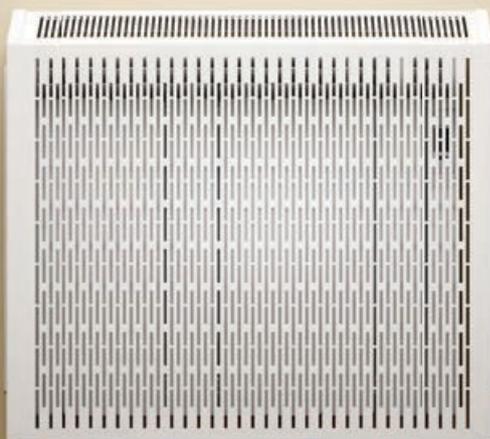
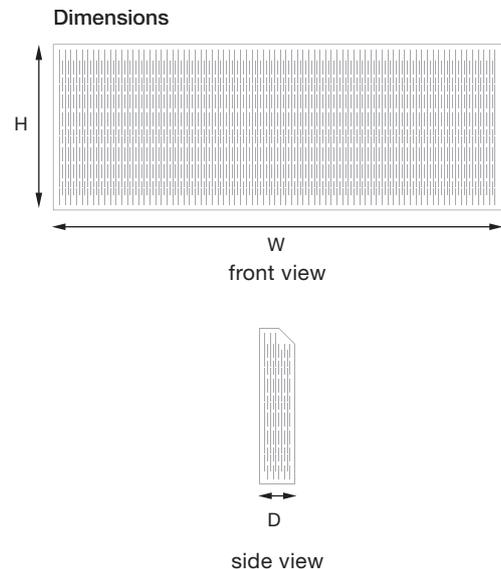
MODELS	RKY0550	RKY0770	RKY0990	RKY1210	RKY1430	RKY1600
Compatible with	KRI0550RAD2 KRI0330RAD2	KRI0770RAD2	KRI0990RAD2	KRI1210RAD2	KRI1430RAD2	KRI1600RAD2
<b>DIMENSIONS</b>						
W (mm) - Width	600	760	920	1,090	1,260	1,410
H (mm) - Height	660	660	660	660	660	660
D (mm) - Depth	150	150	150	150	150	150
<b>MECHANICAL CHARACTERISTICS</b>						
Weight (Kg)	8.1	9	10.6	11.8	13.1	14.4
Colour	White RAL 9010					
<b>EAN CODE</b>	8436045914392	8436045914408	8436045914415	8436045914422	8436045914439	8436045914446
<b>TP</b>	<b>£ 81.00</b>	<b>£ 89.00</b>	<b>£ 98.00</b>	<b>£ 109.00</b>	<b>£ 119.00</b>	<b>£ 131.00</b>



## Protective grill for KYROS Conservatory

Protection system designed for low-profile radiators KYROS range.

MODELS	RKY1100	RKY1300	RKY1500
Compatible with	KRI1100RADC2	KRI1300RADC2	KRI1500RADC2
<b>DIMENSIONS</b>			
W (mm) - Width	1,090	1,260	1,410
H (mm) - Height	500	500	500
D (mm) - Depth	150	150	150
<b>MECHANICAL CHARACTERISTICS</b>			
Weight (Kg)	10.8	12.1	13.4
Colour	White RAL 9010		
<b>EAN CODE</b>	8436045914453	8436045914460	8436045914477
<b>TP</b>	<b>£ 100.00</b>	<b>£ 110.00</b>	<b>£ 120.00</b>



## Protection grill

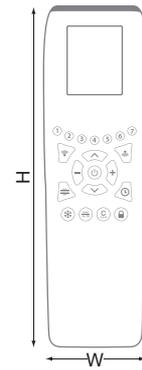
This protection system is designed only for Rointe digital electric radiators. When fitted they ensure that you cannot come into direct contact with the radiator surface and also prevents the risk of introducing foreign objects to the radiator. Installation is especially recommended in nurseries, nursing homes, and for public areas as well.



MODEL	ACMI120
<b>DIMENSIONS</b>	
W (mm) - Width	54
H (mm) - Height	177
D (mm) - Depth	21
<b>MECHANICAL CHARACTERISTICS</b>	
Weight (grs)	115
Colour RAL	White RAL 9010
Surround material	PC/ABS
Range operating temperature	-20 to 55 °C
<b>ELECTRICAL CHARACTERISTICS</b>	
Power	3Vdc
Battery type	2 x 1'5 AAA
<b>COMUNICATION</b>	
Wireless IR.	●
Shipping - range (m)	3
Reception - range (m)	1
<b>INSTALLATION</b>	
Wall bracket	●
Installed depth with support (mm)	25
<b>FUNCTIONALITY</b>	
TFT screen (1'77")	●
24 hours / 7 days programmer	●
Manual / automatic function	●
Remote memory lock - heating and D.H.W.	●
Erasing programming memory	●
Changing screen brightness - On / Stand-by mode	●
Display nominal and effective power	●
<b>ADVANCED FUNCTIONS</b>	
Display software version	●
Display consumption time	●
System reset	●
Display battery level	●
<b>APPLICABLE REGULATIONS</b>	
CE	●
ROHS	●
<b>EAN CODE</b>	8436045914286
<b>TP</b>	£ 135.00

● incorporated ○ not incorporated □ optional × unavailable / not applicable

## Dimensions



front view



side view

Kyros range infrared remote control (Optional)



# Terms and conditions of sale

## 1. DEFINITIONS

"Company" means ROINTE UK.

"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. (CTK15V2-UK)

## 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 under no circumstances be delayed.

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. Prices quoted are exclusive of V.A.T. which shall be charged at such rate as shall be applicable from time to time.

## 4. CANCELLATION

4.1. No cancellation of any order from the Customer can be accepted without prior written agreement of the Company and if the Company provides written agreement to cancellation any and all costs and expenses incurred by the Company in disposing of the Contract shall be paid by the Customer.

4.2. No orders cancellation 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 CONDITIONS.

5.1. No customer returns from the Customer can be accepted without prior written agreement of the Company and if the Company provides written agreement to cancellation any and all costs and expenses incurred by the Company in disposing of the Contract shall be paid by the Customer.

5.2. A charge of at least 15% of their original price will be payable to cover reception, inspection and fault registration costs. All returns must arrive at no cost to the Company.

5.3. No customer returns in good conditions will be accepted unless the Company agrees it in writing under the following conditions:

- a. If goods are returned within less than 30 days after being purchased by the Customer will be 15% of handling charge.
- b. If goods are returned within between 30 days and 3 months after being purchased by the Customer will be 20% of handling charge.
- c. If goods are returned within between 3 months and 12 months after being purchased by the Customer will be 25% of handling charge.
- d. If goods are returned after 12 months from being purchased by the Customer will be 30% of handling charge.

## 6. DELIVERY

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. Time for delivery shall not be of the essence unless previously agreed by the Company in writing.

6.2. The Company shall be entitled to delay or cancel delivery or to reduce the amount delivered if it prevented from or hindered in or delayed in manufacturing obtaining or delivering the Goods by normal route or means of delivery 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.

6.3. Minimum carriage paid: £1,000 net (excluding VAT). For less than this total amount, £30 carriage fee.

6.4. The Company reserves the right not to supply if the Customer has outstanding invoices to be paid 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. The goods are deemed to be delivered when they are placed on the lorry in the warehouses, except for offers with special conditions, and the Company's liability as a haulier ends at that point.

7.2. Confirmed orders may be supplied in partial deliveries, unless the Customer checks the goods, the Customer will 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 note accordingly.

## 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 to the Company the total price.

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 Section 1 of the Unfair Contract Terms Act 1977) 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. BRITISH STANDARD

14.1. The Goods shall be supplied by the Company in accordance with the relevant British 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. Raise a credit note for the full total amount paid by the Customer for this unit. The customer needs to send the original purchase order so we can check the initial price paid for this unit.
- c. 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.
- d. The Customer should revise the instructions manual and bear in mind the Company recommendations.

## 16. HEALTH AND SAFETY

16.1. 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.

16.2. 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.

16.3. 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 as 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 and 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.

16.4. 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 Act 1974 as 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 Act 1987 or any statutory replacement therefor in respect of Goods which were not defective at the time when they were supplied to the Customer.

## 17. SEVERANCE

17.1. 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.

## 18. WAIVER

18.1. 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.

## 19. JURISDICTION

19.1. 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 England and the Company and the Customer irrevocably submits to the exclusive jurisdiction of the English Courts.

19.2. 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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