

## KYROS

LOW CONSUMPTION INTEGRAL DIGITAL HEATING AND DOMESTIC HOT WATER (D.H.W.)

The perfect balance between design and functionality



## ROINTE'S NEW WEBSITE NOW EVERYTHING YOU NEED IN JUST A CLICK

A world of possibilities awaits you in our new web portal, the place where from now on you can find all the support that you need. Administer your business with Rointe & learn interactively about the benefits that our heating system offers.

Discover all its contents now!

#### MY ROINTE

Check your details, order marketing directly or download product manuals and our calculation program. Contact your Key Account Manager for details.

#### **ROINTE ACADEMY**

Interactively discover the benefits and advantages of the Rointe Digital System and how all of its component products function. All the information from the Rointe Seminars is now available online and within your reach to offer you the very best training!

#### **ROINTE MARKETING**

Order online, request technical catalogues, leaflets, display stands and streamline your deliveries etc. You can also request the help of our Regional Commercial Directors to accompany you on your visits or to help close projects and installations.

Don't hesitate! Go now onto our new website and benefit from all these extraordinary Rointe advantages.

## www.rointe.co.uk

Your new day-to-day working tool



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KYROS SYSTEM price list

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KYROS SYSTEM PRICE LIST









#### **ROINTE KYROS**

#### BETTER PERFORMANCE, LESS

#### CONSUMPTION

Rointe KYROS provides the user a complete low consumption 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 and with reduced consumption.

The products in the Rointe KYROS range incorporate exclusive ULP8 Ultra Low Power microcontrollers which together with Fuzzy Logic Energy Control technology guarantee a greater efficiency and therefore a notable saving in their equivalent ratio of consumption.

Now enjoy the entire Rointe KYROS range with a renewed and exclusive design and a modern, up to date line, because style does not have to be at the cost of comfort or technology.

With Rointe KYROS you benefit from the Rointe maximum quality guarantee, greater energy efficiency and the wellbeing that you desire.

KYROS range: low consumption, high performance.

With the KYROS range you choose how to control your system.



#### **TOUCH CONTROL PANEL**

Control all of the functions of the KYROS range products via their integrated control panel.



#### **INFRARED CONTROL**

You can also control the KYROS products using the exclusive Air Control infrared remote control.

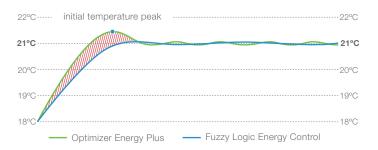
#### **FUZZY LOGIC ENERGY CONTROL**

#### TECHNOLOGY FOR MAXIMUM

#### **ENERGY SAVING**

**Fuzzy Logic Energy Control** is a new and significant development introduced by the Rointe R&D department that represents a considerable technological advance to heating and hot water products.

The patented **Fuzzy Logic Energy Control** technology is a natural evolution from its predecessor **Optimizer Energy Plus**. It administers the product start up more quickly and efficiently thanks to a more precise control over the calculation of the power requirement required to reach the established temperature. This calculation is based on three fundamental values:



#### How does it work?

As we can see in the upper 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.

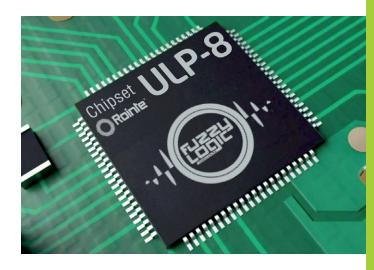
The Rointe products with the Fuzzy Logic Energy Control technology decrease the equivalent ratio of consumption by up to 6%\* compared with those that incorporate the Optimizer Energy Plus technology.

\*Maximum reduction of the equivalent ratio of consumption percentage obtained from tests performed by Rointe.









#### **TEMPERATURE STABILITY**

Fuzzy Logic Energy Control improves the administration of the power necessary to maintain a stable room temperature, analysing its variations with a **precision of \pm 0.25^{\circ}C**. It sends electronic micro pulses to the heating element which, together with the thermal fluid and highly pure aluminium, provides a rapid transfer of 100% of the heat to the surroundings.

#### **MAXIMUM EFFICIENCY**

The efficient administration by the Fuzzy Logic Energy Control, in addition to achieving excellent room temperature stability and an improved power administration in the initial radiator heat rise curve, allows us to obtain an equivalent consumption coefficient of only 38% of the nominal power, thereby producing significant savings of up to 62% in the equivalent non-consumption coefficient.



#### **OPTIMAL BALANCE IN W/ELEMENT**

The 110 W/element of the KYROS radiator supplies a balanced heat transmission, unlike other radiators that use between 125 and 160 W/element. These others are less thermally balanced. As a consequence of this heat balance we can determine an approximate relationship of 1 element per m<sup>2</sup> that needs to be heated in an extra cold zone.



#### **KYROS RADIATORS**

ROINTE QUALITY AND TECHNOLOGY

#### PROVIDING YOUR COMFORT

Rointe offers you the opportunity to enjoy the most complete and modern radiator with a compact finish, a modern appearance and patented Fuzzy Logic Energy Control technology, which provides up to 62% savings in power consumption compared with other technologies, ideal for installation in any environment, domestic or public.









#### **LOW CONSUMPTION**

hanks to Fuzzy Logic Energy Control technology, the average power consumed v. the KYROS radiators accounts for only 38% of its nominal power



#### **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 therma fluid than other products on the market.



#### **SMD ELECTRONICS & ADVANCED TECHNOLOGY**

Multilayer surface mounted electronics incorporating Rointe ULP8 ultra low



#### **OPTIMAL BALANCE BETWEEN W/ELEMENT**

Each 110 watts per element, provides a balanced heat transmission to the surroundings, compared with other manufacturers that consume between 125 and 160 watts per element, thus being less efficient



#### IFT SCREEN

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



#### **INFRARED COMMUNICATION**

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



#### **KEYPAD PROGRAMMING**

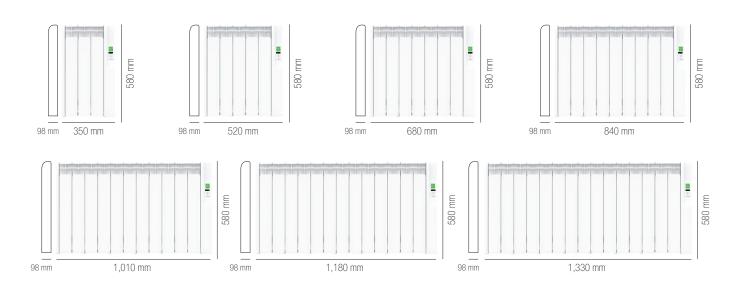
Total control at the radiator itself through integrated control panel



#### **QUALITY ASSURANCE**

Total security with 10 year warranty on aluminum and 2 years on electrica and electronic components.

#### **O KYROS RADIATOR MODEL RANGE**



#### **O KYROS RADIATOR TECHNICAL CHARACTERISTICS**

| MODELS  | KRI0330RAD2 | KRI0550RAD2 | KRI0770RAD2 | KRI0990RAD2    | KRI1210RAD2 | KRI1430RAD2 | KRI1600RAD2 | <b>A</b> □ |    |          |
|---|-------------|-------------|-------------|----------------|-------------|-------------|-------------|------------|----|----------|
| Number of elements                                    | 3           | 5           | 7           | 9              | 11          | 13          | 15          |            |    |          |
| DIMENSIONS  |             |             |             |                | ,           |             |             |            |    |          |
| A (mm) - width  | 350         | 520         | 680         | 840            | 1,010       | 1,180       | 1,330       | В          |    |          |
| 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         | V LL       |    |          |
| MECHANICAL CHARACTERIS                                |             |             |             |                |             |             | ,           |            | Α  |          |
| Armoured steel heating element                        | <b>V</b>    | <b>V</b>    | <b>V</b>    | <b>V</b>       | <b>V</b>    | <b>~</b>    | <b>V</b>    |            |    |          |
| High purity aluminium                                 | <b>V</b>    | <b>~</b>    | <b>V</b>    | <b>V</b>       | <b>V</b>    | <b>V</b>    | <b>~</b>    |            | ₽₩ |          |
| Thermal oil (+ 50% volume)                            | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| PC/ABS panel with keypad                              | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Left side cover PC/ABS                                | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Weight (Kg)   | 10          | 14          | 18          | 22             | 26          | 30          | 34          |            |    |          |
| Colour  |             |             |             | White RAL 9010 |             |             |             |            | H  |          |
| ELECTRICAL CHARACTERIST                               | rics        |             |             |                |             |             |             |            | H  |          |
| Nominal Power (W)                                     | 330         | 550         | 770         | 990            | 1,210       | 1,430       | 1,600       |            | A  |          |
| Effective Power (W)*                                  | 125         | 209         | 293         | 376            | 460         | 543         | 608         |            | D  |          |
| 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 ")                                   | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Manual / Automatic function                           | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Eco / Comfort mode                                    | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Antifrost   | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Open windows function                                 | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Screen brightness                                     | <b>V</b>    | <b>V</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Nominal and effective power                           | ·           | · ·         | · ·         | · ·            | · ·         | · •         | · •         |            |    |          |
| Programmable 24/7 using keyboard and / or Air Control | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| PERFORMANCE AND SECUR                                 | ITY         |             |             |                |             |             |             |            |    |          |
| Fuzzy Logic Energy Control                            | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    | 215      |
| Rointe ULP8 Microcontroller                           | ~           | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    | 21       |
| Temperature stability (°C)                            | ±0.25       | ±0.25       | ±0.25       | ±0.25          | ±0.25       | ±0.25       | ±0.25       |            |    | -8       |
| Air velocity (m/s)                                    | < 0.1       | < 0.1       | < 0.1       | < 0.1          | < 0.1       | < 0.1       | < 0.1       |            |    | Official |
| Power per element (W/element)                         | 110         | 110         | 110         | 110            | 110         | 110         | 110         |            |    |          |
| Safety thermostat                                     | <b>✓</b>    | <b>✓</b>    | <b>✓</b>    | <b>✓</b>       | <b>~</b>    | <b>✓</b>    | <b>✓</b>    |            |    |          |
| Average surface temp. during the steady period (°C)** | 40 °C       | 40 °C       | 40 °C       | 40 °C          | 40 °C       | 40 °C       | 40 °C       |            |    |          |
| Protection Grade                                      | IP21        | IP21        | IP21        | IP21           | IP21        | IP21        | IP21        |            |    |          |
| INSTALLATION  |             |             |             |                |             |             |             |            |    |          |
| Template  | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    |            |    |          |
| Installation Kit                                      | ~           | · ·         | ·           | <b>~</b>       | <b>~</b>    | · •         | · ·         |            |    |          |
| CERTIFICATIONS  |             |             | · ·         | · ·            | · ·         | · ·         |             |            |    |          |
| 2004/108/CE Electromagnetic Compatibility             | <b>~</b>    | <b>~</b>    | <b>~</b>    | <b>~</b>       | <b>~</b>    | <b>~</b>    | <b>~</b>    | l l        |    |          |
| · · · · · · · · · · · · · · · · · ·                   |             |             |             |                |             |             |             |            |    |          |

<sup>\*</sup>The effective power is the actual power required to heat a room of 12m² with a set temperature of 21°C, always under certain parameters and according to the results of the tests performed by independent laboratories.

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



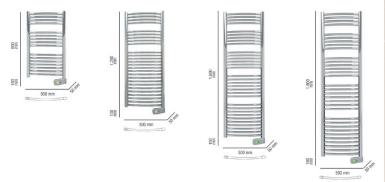
#### **KYROS TOWEL RAILS**

## THE PERFECT BALANCE **BETWEEN DESIGN AND FUNCTIONALITY**

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**.

#### INFRARED

#### **O KYROS TOWEL RAIL RANGE**



#### **O KYROS TOWEL RAIL FINISHES**





#### **CURVED WATERTIGHT STEEL BODY**

lade of a millimetre and a half thick ST12 for a steel electrically welded,



#### OPTIMUM RELATIONSHIP BETWEEN HEATING

Class II heating element duly balanced in W per cm<sup>2</sup> and in contact with the thermal fluid to give the product a great heat transfer power.



#### **SMD ELECTRONICS & ADVANCED TECHNOLOGY**

Surface-mounted, multi-layer electronics incorporating Rointe ULP8 Ultra ow Power microcontroller and a long-life lithium battery.



#### TFT SCREEN

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



#### INFRARED COMMUNICATION

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



#### ADVANCED CONTROLLABILITY USING KEYPAD PANEL

Total control from the towell rail using the integrated keypad panel.



#### **2H BOOST FUNCTION**

Enable this option to set maximum power continuously for two hours.



#### KYROS TOWEL RAIL FINISHES

Chrome Metallic White



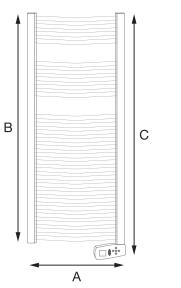
#### **QUALITY ASSURANCE**

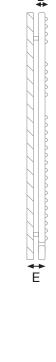
Total security with 10 year warranty on the body of the towel rail and 2 years on electronic components.



#### **O KYROS TOWEL RAIL TECHNICAL CHARACTERISTICS**

| WHITE                                 | KTI030SEB2 | KTI050SEB2 | KTI075SEB2 | KTI100SEB2 |
|---------------------------------------|------------|------------|------------|------------|
| MODELS METALLIC                       | KTI030SEM2 | KTI050SEM2 | KTI075SEM2 | KTI100SEM2 |
| CHROME                                | KTI030SEC2 | KTI050SEC2 | KTI075SEC2 | KTI100SEC2 |
| 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 CHARACTERIS                |            |            |            |            |
| Armoured steel heating element        | <b>~</b>   | <b>V</b>   | <b>V</b>   | <b>V</b>   |
| Thermal fluid                         | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| PC/ABS control panel                  | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| Weight (Kg)                           | 11         | 15         | 22         | 28         |
| White                                 |            | RAL        | 9016       |            |
| Colour RAL Metallic                   |            | RAL        | 9006       |            |
| Chrome                                |            | Chr        | ome        |            |
| Design                                |            | Cur        | ved        |            |
| ELECTRICAL CHARACTERIST               | TICS       |            |            |            |
| White                                 | 300        | 500        | 750        | 1,000      |
| Rated power (W) Metallic              | 300        | 500        | 750        | 1,000      |
| Chrome                                | 300        | 300        | 500        | 750        |
| Voltage (V)                           | 230 V ~    | 230 V ~    | 230 V ~    | 230 V ~    |
| White                                 | 1.3        | 2.2        | 3.3        | 4.4        |
| Current (A) Metallic                  | 1.3        | 2.2        | 3.3        | 4.4        |
| Chrome                                | 1.3        | 1.3        | 2.2        | 3.3        |
| Class II                              | ✓ ×        |            |            | <b>V</b>   |
| FUNCTIONS                             |            |            |            |            |
| TFT screen (1.77 ")                   | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| Manual/automatic function             | ~          | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| Eco / comfort mode                    | · /        |            |            |            |
| Antifrost                             | <i>y</i>   | · ·        | · ·        | · ·        |
| Open windows function                 |            | · ·        | · ·        | · ·        |
| Screen brightness                     | · ·        | · ·        |            |            |
| 2 hr boost function                   |            | ./         | · /        | · /        |
| Programmable 24/7 via control         | •          | •          | •          | •          |
| panel or AIR Control remote.          | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| PERFORMANCE AND SECUR                 | ITY        |            |            |            |
| Rointe ULP8 Microcontroller           | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| Fire proof cabling                    | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| Safety thermostat                     | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| Protection grade                      | IP 44      | IP 44      | IP 44      | IP 44      |
| INSTALLATION                          |            |            |            |            |
|                                       |            |            |            |            |
| Template                              | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| Template Installation Kit             | <b>~</b>   | <b>~</b>   | <b>~</b>   | <b>V</b>   |
| Installation Kit                      | <b>*</b>   | <b>~</b>   | <b>~</b>   | <b>~</b>   |
| ·                                     | <b>*</b>   | *          | *          |            |









## KYROS WATER HEATERS MAXIMUM EFFICIENCY IN YOUR HOT WATER

Choosing a Rointe water heater means choosing an efficient and cost effective water heating solution. The range of KYROS water heaters with the latest Fuzzy Logic Energy Control technology allows the user to obtain a equivalent ratio of consumption of only 19% of the nominal power.







#### ○ KYROS WATER HEATER RANGE 50L - 75L -100L - 150L - 200L





#### **LOW CONSUMPTION**

Thanks to Fuzzy Logic Energy Control technology, the average power consumed by the KYROS water heaters accounts for only 10% of its nominal power.



#### **ENAMELLED TANK**

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



#### **DOUBLE HEATING ELEMENT**

Steel heating elements connected in parallel work independently to quarantee but water at all times



#### **MAXIMUM INSULATION**

Made with a 3cm thick rigid polyurethane foam that has a low therma conductivity which prevents heat loss from the water heater contents.



#### **SMD ELECTRONICS & ADVANCED TECHNOLOGY**

Surface-mounted, multi-layer electronics incorporating Rointe ULP8 Ultra Low Power microcontroller, a long-life lithium battery and a Triac cut out element.



#### TFT SCREEN

atest generation 1.77" TFT screen with high contrast for optimum viewing



#### **INFRARED COMMUNICATION**

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



#### PROGRAMMABLE BY TOUCH PANEL CONTROL

Total control from the water heater itself via the integrated, backlit touch panel control.



#### ANTILEGIONELLA PROTECTION

otal security with this automatically activated system that raises the emperature of the water to 70 degrees thus eliminating all of the bacteria contained within the water



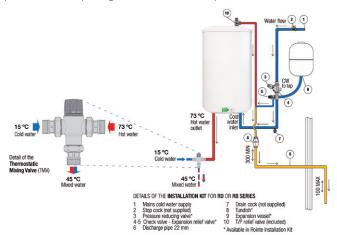
#### **QUALITY ASSURANCE**

Total security with 5 years guarantee on the water heater body and 2 years on the electronics and electrical components

## KYROS WATER HEATER ACCESSORIES DESCRIPTION

#### **O ENERGY SAVING KIT**

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



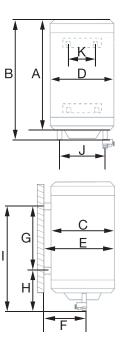
#### **O SUPPORT TRIPOD**

The floor stand is a metallic tripod designed for the large capacity models KWI150DHW2 and KWI200DHW2. This tripod is designed to support up to 260 kg.



#### **O KYROS WATER HEATER TECHNICAL CHARACTERISTICS**

| MODELS   | KWI050DHW2       | KWI075DHW2       | KWI100DHW2     | KWI150DHW2  | KWI200DHW2       |
|--|------------------|------------------|----------------|---|------------------|
| Volume   | 50               | 75               | 100            | 150   | 200              |
| DIMENSIONS   | 00               | , 0              | 100            |   | 200              |
| 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              |
| INSTALLATION   |                  |                  |                |   |                  |
| Position   | Vertical         | Vertical         | Vertical       | Vertical  | Vertical         |
| Water connection (inches)  | 1/2"             | 1/2"             | 1/2"           | 3/4"  | 3/4"             |
| Electrolytic fittings  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Support Tripod (optional)  |                  |                  |                | <b>~</b>  | <b>~</b>         |
| MECHNICAL CHARACTERISTICS  |                  |                  |                |   |                  |
| Touch Pad  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Maximum working pressure (bar)   | 9                | 9                | 9              | 9   | 9                |
| Enamelled steel tank   | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Magnesium anode protector  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| CFC free polyurethane insulation   | ·                | · •              | · ·            | · ·   |                  |
| Empty weight (kg)  | 18               | 25               | 32             | 44  | 56               |
| Colour   | 10               | 20               | White RAL 9016 | 44  | 30               |
| ELECTRICAL CHARACTERISTICS   |                  |                  | WING TIAL 3010 |   |                  |
|  |                  | 01.000           | 01.000         | 01.000  | 01.000           |
| Nº 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             |
| Safety thermostat  | <b>~</b>         | <b>V</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| FUNCTIONALITY  |                  |                  |                |   |                  |
| TFT (1.77")  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Manual/Automatic Function  | <b>~</b>         | <b>~</b>         | <b>V</b>       | <b>~</b>  | <b>~</b>         |
| ECO/Comfort Modes  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Anti-frost   | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Selectable temperatures between 40-73°C  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Anti-legionella  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Temperature evolution function   | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Screen illumination  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
| Programmable 24/7 via control panel and/or AIR Control   | ~                | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
|  |                  |                  |                |   |                  |
| PERFORMANCE AND SAFETY   |                  |                  |                |   |                  |
| PERFORMANCE AND SAFETY Fuzzy Logic Control Energy  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>~</b>  | <b>~</b>         |
|  | <b>~</b>         | <b>~</b>         | <b>~</b>       | <b>Y Y</b>  | <b>~</b>         |
| Fuzzy Logic Control Energy<br>Rointe ULP8 Microcontroller  | <b>* * * * *</b> | <b>* * * * *</b> | <b>Y Y Y Y</b> | <b>Y Y Y</b>  | <b>* * * * *</b> |
| Fuzzy Logic Control Energy<br>Rointe ULP8 Microcontroller<br>Cold water entry diffuser   |                  |                  |                |   |                  |
| Fuzzy Logic Control Energy Rointe ULP8 Microcontroller Cold water entry diffuser Safety valve  | V V V 11         | V V V 14         | V V V V 16     | <ul><li></li><li></li><li></li><li></li><li></li><!--</th--><th>·</th></ul> | ·                |
| Fuzzy Logic Control Energy Rointe ULP8 Microcontroller Cold water entry diffuser Safety valve Steady state consumption (kWh/24h)                                 | 1.1              | 1.4              | 1.6            | 2.0   | 2.4              |
| Fuzzy Logic Control Energy Rointe ULP8 Microcontroller Cold water entry diffuser Safety valve Steady state consumption (kWh/24h) Protection grade                | ·                | ·                | ·              | ·   | ·                |
| Fuzzy Logic Control Energy Rointe ULP8 Microcontroller Cold water entry diffuser Safety valve Steady state consumption (kWh/24h) Protection grade CERTIFICATIONS | 1.1<br>IP 44     | 1.4              | 1.6<br>IP 44   | 2.0<br>IP 44  | 2.4              |
| Fuzzy Logic Control Energy Rointe ULP8 Microcontroller Cold water entry diffuser Safety valve Steady state consumption (kWh/24h) Protection grade                | 1.1              | 1.4              | 1.6            | 2.0   | 2.4              |





<sup>\*</sup> The effective power is the actual power necessary to supply hot water for a family of 4 using 120L/day and with the established temperature of 73°C within predetermined parameters and in accordance with the results of tests made in independent laboratories.



## AIR CONTROL REMOTE CONTROL ROINTE KYROS SYSTEM CONTROL IN THE PALM OF YOUR HAND

The AIR Control infrared remote control stems from the need to integrate in one device **control of all products that make up the KYROS Series heating systems**.

Its ergonomic design is perfectly suited to any user and has easy to use keys.







#### **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.



#### **ELECTRONIC SMD & ADVANCED TECHNOLOGY**

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



#### **TFT SCREEN**

atest generation TFT display 1.77 " and high contrast for optimal viewing... In any angle.



#### **TWO-WAY INFRARED**

3i-directional wireless connection enables programming that, once sent to he product. can be received and copied into another product.



#### COMPACT MECHANICAL KEYBOARD

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



#### POWER BY PRE-INSTALLED BATTERIES

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



#### **GLOSSY WHITE FINISH**

Finish: lacquered in colour RAL 9010 high gloss white.



#### **QUALITY ASSURANCE**

Total security with 2 years warranty on all electronic components.



#### **O AIR CONTROL REMOTE TECHNICAL CHARACTERISTICS**

| Surround material PC/ABS  Range operating temperature  -20°C a 55°C  ELECTRICAL CHARACTERISTICS  Power  3Vdc   | MODELS  | ACMI120       |
|--|---|---------------|
| B (mm) - height  | DIMENSIONS                                      |               |
| C (mm) - depth  MECHANICAL CHARACTERISTICS  Weight (grams)  Colour RAL  White 9010 Surround material PC/ABS Range operating temperature  -20°C a 55°   ELECTRICAL CHARACTERISTICS  Power  3Vdc Battery type  2 x 1'5 AAA  COMMUNICATION  Wireless IR.  Shipping - range (m)  INSTALLATION  Wall bracket Installed depth with support (mm)  25  FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Frasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS   T15  115  Minited White 9010  20°C a 55°  20°C a 50°C a 5 | A (mm) - width                                  | 54            |
| Meight (grams)  Veight (grams)  Colour RAL  White 9016  Surround material PC/ABS  Range operating temperature  ELECTRICAL CHARACTERISTICS  Power  3Vdc  Battery type  2 x 1'5 AAA  COMMUNICATION  Wireless IR.  Shipping - range (m)  11  INSTALLATION  Wall bracket Installed depth with support (mm)  25  FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display consumption time  System reset  Usplay battery level  APPLICABLE REGULATIONS  CE  | B (mm) - height                                 | 177           |
| Weight (grams)  Colour RAL  White 9010 Surround material PC/ABS Range operating temperature  -20°C a 55°  ELECTRICAL CHARACTERISTICS  Power  3Vdc Battery type  2 x 1'5 AAA  COMMUNICATION  Wireless IR.  Shipping - range (m)  11  INSTALLATION  Wall bracket Installed depth with support (mm)  25  FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  JEPLICABLE REGULATIONS  CE  | C (mm) - depth                                  | 21            |
| Colour RAL Surround material PC/ABS Range operating temperature -20°C a 55°C ELECTRICAL CHARACTERISTICS  Power 3Vidc Battery type 2 x 1'5 AAA  COMMUNICATION  Wireless IR. Shipping - range (m) 11 INSTALLATION  Wall bracket Installed depth with support (mm) 25 FUNCTIONS  TFT screen (1.77") 24 hours / 7 days programmer Manual / automatic function Remote memory lock - heating and D.H.W. Antifrost function Erasing programming memory Changing screen brightness - On / Stand-by mode Display nominal and effective power  ADVANCED FUNCTIONS Display software version Display software version Display battery level  APPLICABLE REGULATIONS  CE  | MECHANICAL CHARACTERISTICS                      |               |
| Surround material PC/ABS Range operating temperature -20°C a 55 °  ELECTRICAL CHARACTERISTICS  Power 3 Vidc Battery type 2 x 1'5 AAA  COMMUNICATION  Wireless IR. Shipping - range (m) 3 Reception - range (m) 1 INSTALLATION  Wall bracket Installed depth with support (mm) 25  FUNCTIONS  TFT screen (1.77") 24 hours /7 days programmer Manual / automatic function Remote memory lock - heating and D.H.W. Antifrost function Erasing programming memory Changing screen brightness - On / Stand-by mode Display nominal and effective power  ADVANCED FUNCTIONS  Display software version Display software version Display battery level  APPLICABLE REGULATIONS  CE   | Weight (grams)                                  | 115           |
| Range operating temperature  ELECTRICAL CHARACTERISTICS  Power 3Vdc  Battery type 2 x 1'5 AAA  COMMUNICATION  Wireless IR.   | Colour RAL                                      | White 9010    |
| ELECTRICAL CHARACTERISTICS  Power 3Vdc  Battery type 2x1'5AAA  COMMUNICATION  Wireless IR.   | Surround material PC/ABS                        | PC/ABS        |
| Power 3Vdc Battery type 2x1'5AAA  COMMUNICATION  Wireless IR.  | Range operating temperature                     | -20°C a 55 °C |
| Battery type 2x1'5AAA  COMMUNICATION  Wireless IR.   | ELECTRICAL CHARACTERISTICS                      |               |
| COMMUNICATION  Wireless IR.  Shipping - range (m) 3  Reception - range (m) 1  INSTALLATION  Wall bracket  Installed depth with support (mm) 25  FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Visited Total Community (Community Community Commun | Power   | 3Vdc          |
| Wireless IR.   Shipping - range (m)   3 Reception - range (m)   1 INSTALLATION  Wall bracket   Installed depth with support (mm)   25 FUNCTIONS  TFT screen (1.77")   24 hours / 7 days programmer   Manual / automatic function   Remote memory lock - heating and D.H.W.   Antifrost function   Erasing programming memory   Changing screen brightness - On / Stand-by mode   Display nominal and effective power   ADVANCED FUNCTIONS  Display software version   Display consumption time   System reset   Display battery level    APPLICABLE REGULATIONS  CE     V   INSTALLATION   3  A  PUNCTIONS    Stand-by mode   W APPLICABLE REGULATIONS  CE    V  | Battery type                                    | 2 x 1'5 AAA   |
| Shipping - range (m) 3 Reception - range (m) 1 INSTALLATION  Wall bracket  | COMMUNICATION                                   |               |
| Reception - range (m)  INSTALLATION  Wall bracket  Installed depth with support (mm)  FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Frasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE   *  Installed depth with support  25  4  A PRICABLE REGULATIONS  CE  *  Installed depth with support (mm)  25  4  26  4  27  28  4  29  4  20  4  4  APPLICABLE REGULATIONS  CE  | Wireless IR.                                    | <b>~</b>      |
| INSTALLATION  Wall bracket  Installed depth with support (mm)  FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | Shipping - range (m)                            | 3             |
| Wall bracket  Installed depth with support (mm)  FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Frasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | Reception - range (m)                           | 1             |
| Installed depth with support (mm)  FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Frasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | INSTALLATION                                    |               |
| FUNCTIONS  TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Frasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE   | Wall bracket                                    | <b>~</b>      |
| TFT screen (1.77")  24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | Installed depth with support (mm)               | 25            |
| 24 hours / 7 days programmer  Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | FUNCTIONS                                       |               |
| Manual / automatic function  Remote memory lock - heating and D.H.W.  Antifrost function  Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | TFT screen (1.77")                              | <b>~</b>      |
| Remote memory lock - heating and D.H.W.  Antifrost function  Frasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE   | 24 hours / 7 days programmer                    | <b>~</b>      |
| Antifrost function  Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | Manual / automatic function                     | <b>~</b>      |
| Erasing programming memory  Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | Remote memory lock - heating and D.H.W.         | <b>~</b>      |
| Changing screen brightness - On / Stand-by mode  Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  Visplay consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | Antifrost function                              | <b>~</b>      |
| Display nominal and effective power  ADVANCED FUNCTIONS  Display software version  V  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  | Erasing programming memory                      | <b>~</b>      |
| ADVANCED FUNCTIONS  Display software version   Display consumption time   System reset   Display battery level   APPLICABLE REGULATIONS  CE  | Changing screen brightness - On / Stand-by mode | <b>✓</b>      |
| Display software version  Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  V   | Display nominal and effective power             | <b>~</b>      |
| Display consumption time  System reset  Display battery level  APPLICABLE REGULATIONS  CE  V   | ADVANCED FUNCTIONS                              |               |
| System reset  Display battery level   APPLICABLE REGULATIONS  CE  V  | Display software version                        | <b>~</b>      |
| Display battery level  APPLICABLE REGULATIONS  CE   V  | Display consumption time                        | <b>~</b>      |
| APPLICABLE REGULATIONS CE  | System reset                                    | <b>~</b>      |
| CE ✓   | Display battery level                           | <b>~</b>      |
|  | APPLICABLE REGULATIONS                          |               |
| ROHS   | CE  | <b>~</b>      |
|  | ROHS  | <b>~</b>      |

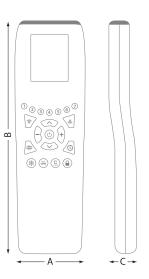


#### WALL BRACKET

The Rointe AIR Control command **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.

Program the required settings and place it again in your wall support. This way you will always have it handy and available to use.



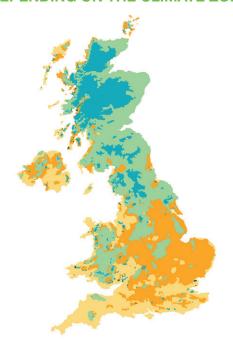


# RITIC. ROINTE THERMAL COEFFICIENT

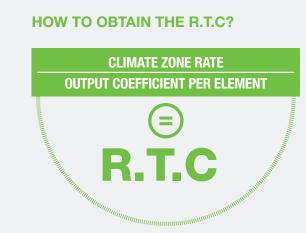
The RTC is a coefficient developed by Rointe that serves to relate the number of elements necessary for a room with its floor area and the geographical area where it is located.

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.

#### **ORANGE ON THE CLIMATE ZONE**







|                    | CLIMATE                  |                          | R.T.C. (m <sup>2</sup> ) | R.T.C. (m³)                    |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------------|
| Mild climate       | 436 BTU/h m <sup>2</sup> | 139 BTU/h m <sup>3</sup> | 0,75 elements / m²       | 0,23 elements / m³             |
| Cold climate       | 476 BTU/h m <sup>2</sup> | 159 BTU/h m³             | 0,80 elements / m²       | 0,26 elements / m <sup>3</sup> |
| Very cold climate  | 516 BTU/h m <sup>2</sup> | 179 BTU/h m³ (           | 0,85 elements / m²       | 0,30 elements / m³             |
| Extra cold climate | 556 BTU/h m²             | 198 BTU/h m³ (           | 0,90 elements / m²       | 0,33 elements / m³             |

#### **O THE PROPER SIZING**

The following formulas relate the required number of elements with the RTC and the area of the room. It is very important to use the correct coefficient depending on the climate and the ceiling height (see table above).

R.T.C.  $\otimes$  m<sup>2</sup>  $\oplus$  ELEMENTS NEEDED

R.T.C. 

m³ 

ELEMENTS NEEDED

#### Did you know ...?

To calculate the radiators necessary, 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>).



#### **O 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.

#### ESTIMATED SIZING M<sup>2</sup>

| N° DE<br>ELEMENTS | MILD CLIMATE<br>436 BTU/h m² | COLD CLIMATE<br>476 BTU/h m <sup>2</sup> | VERY COLD CLIMATE<br>516 BTU/h m <sup>2</sup> | EXTRA COLD CLIMATE<br>556 BTU/h m <sup>2</sup> |
|-------------------|------------------------------|--|---|--|
| 3                 | 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>                         |
| 5                 | 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>                         |
| 7                 | 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>                         |
| 9                 | 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>                        |
| 11                | 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>                        |
| 13                | 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>                        |
| 15                | 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>                        |

#### ESTIMATED SIZING M<sup>3</sup>

| N° DE<br>ELEMENTS | MILD CLIMATE<br>139 BTU/h m <sup>3</sup> | COLD CLIMATE<br>159 BTU/h m <sup>3</sup> | VERY COLD CLIMATE<br>179 BTU/h m³ | EXTRA COLD CLIMATE<br>198 BTU/h m³ |
|-------------------|--|--|-----------------------------------|------------------------------------|
| 3                 | 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>            |
| 5                 | 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>            |
| 7                 | 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>            |
| 9                 | 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>            |
| 11                | 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>            |
| 13                | 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>            |
| 15                | 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>            |

#### **O SIZING THE REST OF THE KYROS RANGE**

In these tables you can find the estimated sizing for the rest of the Rointe KYROS range of towel rails and water heaters. Its purpose is for reference only and it is recommended that a professional installer makes the personalised calculation on site, whether in a home or business.

#### TOWEL RAIL RECOMMENDED BY AREA

| AREA                    | POWER   | SERIES   | MODEL           |
|-------------------------|---------|----------|-----------------|
| Up to 3 m <sup>2</sup>  | 300 W   | KYROS    | KTI030SEB2/SEM2 |
| Up to 5 m <sup>2</sup>  | 500 W   | White/   | KTI050SEB2/SEM2 |
| Up to 7 m <sup>2</sup>  | 750 W   |          | KTI075SEB2/SEM2 |
| Up to 10 m <sup>2</sup> | 1.000 W | Metallic | KTI100SEB2/SEM2 |
| Up to 2 m <sup>2</sup>  | 300 W   |          | KTI030SEC2      |
| Up to 4 m <sup>2</sup>  | 300 W   | KYROS    | KTI050SEC2      |
| Up to 6 m <sup>2</sup>  | 500 W   | Chrome   | KTI075SEC2      |
| Up to 8 m <sup>2</sup>  | 750 W   |          | KTI100SEC2      |

#### WATER HEATER RECOMMENDED ACCORDING TO USE AND N° PEOPLE

| N° OF<br>PEOPLE | RECOMMENDED<br>SIZE | USE                                  |  |  |  |
|-----------------|---------------------|--------------------------------------|--|--|--|
| 1-2             | 50 L                | Laundry / Sink / Shower              |  |  |  |
| 2-4             | 75 L                | Laundry / Sink / Shower              |  |  |  |
| 2-5             | 100 L               | Laundry / Sink / Small Bath          |  |  |  |
| 3-6             | 150 / 200 L         | Laundry / Sink / Shower / Small Bath |  |  |  |

# CALCULATION EXAMPLE IN M<sup>2</sup> AND M<sup>3</sup> LOCATED IN A COLD ZONE

Estimated calculation for an  $80m^2$  dwelling located within a cold area of the UK providing 12 hours/day-night maintaining the radiators' set temperature at  $21^{\circ}$ C. The water heater would be working 24 hours a day, with a draw off profile of 120L/day and the temperature set to  $73^{\circ}$ C.



#### 

1 MONTH

1 DAY



#### **⊙ SAMPLE CALCULATION IN M² (CEILING HEIGHT LESS THAN 3 METRES)**

| ROOM               | M²                | RTC     | N° OF<br>ELEMENTS | N° OF<br>PRODUCTS | NOMINAL<br>POWER | CONSUMPTION<br>COEFFICIENT RATIO | EFFECTIVE<br>POWER |
|--------------------|-------------------|---------|-------------------|-------------------|------------------|----------------------------------|--------------------|
| <b>Living Room</b> | 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           |
|                    | 80 m <sup>2</sup> |         | 61                | 7                 | 6,660 W          | 38%                              | 2,530.80 W         |
| Water Heater 100 L |                   |         |                   | 1 x KWI100DHW2    | 2,400 W          | 19%                              | 456 W              |
| NOMINAL POWER II   | NSTALLE           | D / EFF | ECTIVE POWE       | R USED            | 9,060 W          |                                  | 2,986.80 W         |

#### **O SAMPLE CALCULATION IN M3 (CEILING HEIGHT MORE THAN 3 METRES)**

| ROOM               | M³                 | RTC     | N° OF<br>ELEMENTS | N° OF<br>PRODUCTS                  | NOMINAL<br>POWER | CONSUMPTION<br>COEFFICIENT RATIO | EFFECTIVE<br>POWER |
|--------------------|--------------------|---------|-------------------|------------------------------------|------------------|----------------------------------|--------------------|
| Living Room        | 76                 | 0.26    | 20                | 1 x KRI1210RAD2<br>1 x KRI0990RAD2 | 2,200 W          | 38%                              | 836.00 W           |
| Kitchen            | 56                 | 0.26    | 15                | 1 x KRI1600RAD2                    | 1,600 W          | 38%                              | 608.00 W           |
| Hall               | 36                 | 0.26    | 9                 | 1 x KRI0990RAD2                    | 990 W            | 38%                              | 376.20 W           |
| Bathroom           | 24                 | 0.26    | 7                 | 1 x KRI0770RAD2                    | 770 W            | 38%                              | 292.60 W           |
| Bedroom 1          | 48                 | 0.26    | 13                | 1 x KRI1430RAD2                    | 1,430 W          | 38%                              | 543.40 W           |
| Bedroom 2          | 40                 | 0.26    | 11                | 1 x KRI1210RAD2                    | 1,210 W          | 38%                              | 459.80 W           |
| Bedroom 3          | 40                 | 0.26    | 11                | 1 x KRI1210RAD2                    | 1,210 W          | 38%                              | 459.80 W           |
|                    | 320 m <sup>3</sup> |         | 86                | 8                                  | 9,410 W          | 38%                              | 3,575.80 W         |
| Water Heater 100 L |                    |         |                   | 1 x KWI100DHW2                     | 2,400 W          | 19%                              | 456 W              |
| NOMINAL POWER I    | NSTALLE            | D / EFF | ECTIVE POWE       | R USED                             | 11,810 W         |                                  | 4,031.80 W         |

### **CONSUMPTION CALCULATION**

### THE CALCULATIONS **PROCESS IN M**<sup>2</sup>

**O CALCULATION OF THE NOMINAL POWER** 

AREA IN M<sup>2</sup>



R.T.C.



NUMBER OF ELEMENTS



110W PER



NOMINAL POWER

**O KYROS RADIATOR / CALCULATION OF EFFECTIVE POWER** 

#### **O CALCULATION OF EFFECTIVE POWER**

NOMINAL POWER 6,660 W **EQUIVALENT RATIO OF CONSUMPTION** 

38%

EFFECTIVE POWER

2.53 kW

**O CALCULATING THE DAILY / MONTHLY COST** 

effective power 2.53 kW

HOURS OF HEATING

12h

(x)

UNIT RATE

£ 0.115

DAILY COST

MONTHLY COST

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

• KYROS WATER HEATER / CALCULATION OF EFFECTIVE POWER

#### **O CALCULATION OF EFFECTIVE POWER**

2,400 W

**EQUIVALENT RATIO OF CONSUMPTION** 

19%

0.46 kW

**⊙ CALCULATING THE DAILY / MONTHLY COST** 

effective power 0.46 kW

(X)

HOURS OF D.H.W.

24h

(x)

**UNIT RATE** £ 0.115

DAILY COST

MONTHLY COST

With a 75 litre KYROS water heater, if we set a temperature of 73°C and have a 120 litres per day consumption profile, it only needs a consumption coefficient ratio of 19%.

#### **O INSTALLATION RECOMMENDATIONS**

- 1 In the case of stairs and corridors there is a high risk of heat loss, so it is recommended to increase the result of the calculations by 15%.
- 2 For kitchens, being areas with furniture and a much higher general temperature, we can reduce the output by as much as 10%.
- 3 Avoid placing obstacles near radiators and distribute them in a balanced way. For example, if a room of 21 m<sup>2</sup> need 18 elements, ideally fit 2 radiators 9 elements each, with equidistant spacing between them.

Remember that these are estimates and should be considered as an average. We recommend that the personalized and detailed study of an installation is always done by a professional installer or Rointe.



#### With patented technology





#### **O DIGITAL ELECTRIC RADIATOR KYROS**







| REFERENCE   | N° ELEMEN. | POWER   | VOLTAGE | HEIGHT | WIDTH    | DEPTH | WEIGHT | EAN CODE      | TP       |
|-------------|------------|---------|---------|--------|----------|-------|--------|---------------|----------|
| KRI0330RAD2 | 3          | 330 W   | 230 V   | 580 mm | 350 mm   | 98 mm | 10 kg  | 8436045913296 | £ 271.00 |
| KRI0550RAD2 | 5          | 550 W   | 230 V   | 580 mm | 520 mm   | 98 mm | 14 kg  | 8436045913302 | £ 343.00 |
| KRI0770RAD2 | 7          | 770 W   | 230 V   | 580 mm | 680 mm   | 98 mm | 18 kg  | 8436045913319 | £ 429.00 |
| KRI0990RAD2 | 9          | 990 W   | 230 V   | 580 mm | 840 mm   | 98 mm | 22 kg  | 8436045913326 | £ 490.00 |
| KRI1210RAD2 | 11         | 1,210 W | 230 V   | 580 mm | 1,010 mm | 98 mm | 26 kg  | 8436045913333 | £ 544.00 |
| KRI1430RAD2 | 13         | 1,430 W | 230 V   | 580 mm | 1,180 mm | 98 mm | 30 kg  | 8436045913340 | £ 602.00 |
| KRI1600RAD2 | 15         | 1,600 W | 230 V   | 580 mm | 1,330 mm | 98 mm | 34 kg  | 8436045913357 | £ 672.00 |

#### **O KYROS DIGITAL ELECTRIC TOWEL RAIL - CHROME**



| REFERENCE POWER VOLTAGE HEIGHT WIDTH DEPTH WEIGHT EAN CODE   | TP       |
|--|----------|
| KTI030SEC2 300 W 230 V 900 mm 500 mm 50 mm 11 kg 8436045913401   | £ 433.00 |
| KTI050SEC2         300 W         230 V         1,300 mm         500 mm         50 mm         15 kg         8436045913418 | £ 558.00 |
| KTI075SEC2         500 W         230 V         1,700 mm         500 mm         50 mm         22 kg         8436045913425 | £ 696.00 |
| KTI100SEC2         750 W         230 V         1,900 mm         500 mm         50 mm         28 kg         8436045913432 | £ 749.00 |



#### **• KYROS DIGITAL ELECTRIC TOWEL RAIL - METALLIC**

INFRARED 10 Cuaranto



| REFERENCE  | POWER   | VOLTAGE | HEIGHT   | WIDTH  | DEPTH | WEIGHT | EAN CODE      | TP       |
|------------|---------|---------|----------|--------|-------|--------|---------------|----------|
| KTI030SEM2 | 300 W   | 230 V   | 900 mm   | 500 mm | 50 mm | 11 kg  | 8436045913487 | £ 401.00 |
| KTI050SEM2 | 500 W   | 230 V   | 1,300 mm | 500 mm | 50 mm | 15 kg  | 8436045913494 | £ 501.00 |
| KTI075SEM2 | 750 W   | 230 V   | 1,700 mm | 500 mm | 50 mm | 22 kg  | 8436045913500 | £ 569.00 |
| KTI100SEM2 | 1,000 W | 230 V   | 1,900 mm | 500 mm | 50 mm | 28 kg  | 8436045913517 | £ 617.00 |



#### **• KYROS DIGITAL ELECTRIC TOWEL RAIL - WHITE**



| REFERENCE  | POWER   | VOLTAGE | HEIGHT   | WIDTH  | DEPTH | WEIGHT | EAN CODE      | TP       |
|------------|---------|---------|----------|--------|-------|--------|---------------|----------|
| KTI030SEB2 | 300 W   | 230 V   | 900 mm   | 500 mm | 50 mm | 11 kg  | 8436045913562 | £ 272.00 |
| KTI050SEB2 | 500 W   | 230 V   | 1,300 mm | 500 mm | 50 mm | 15 kg  | 8436045913579 | £ 346.00 |
| KTI075SEB2 | 750 W   | 230 V   | 1,700 mm | 500 mm | 50 mm | 22 kg  | 8436045913586 | £ 391.00 |
| KTI100SEB2 | 1,000 W | 230 V   | 1,900 mm | 500 mm | 50 mm | 28 kg  | 8436045913593 | £ 431.00 |



#### **O KYROS DIGITAL ELECTRIC WATER HEATER**

INFRARED 52 miles



| REFERENCE  | POWER   | VOLTAGE | HEIGHT   | WIDTH  | DEPTH  | EMPTY WEIGHT | CAPACITY | EAN CODE      | TP         |
|------------|---------|---------|----------|--------|--------|--------------|----------|---------------|------------|
| KWI050DHW2 | 2,400 W | 230 V   | 685 mm   | 404 mm | 420 mm | 18 kg        | 50 L     | 8436045913654 | £ 630.00   |
| KWI075DHW2 | 2,400 W | 230 V   | 935 mm   | 404 mm | 420 mm | 25 kg        | 75 L     | 8436045913661 | £ 784.00   |
| KWI100DHW2 | 2,400 W | 230 V   | 1,170 mm | 404 mm | 420 mm | 32 kg        | 100 L    | 8436045913678 | £ 869.00   |
| KWI150DHW2 | 2,400 W | 230 V   | 960 mm   | 580 mm | 620 mm | 44 kg        | 150 L    | 8436045913685 | £ 1,020.00 |
| KWI200DHW2 | 2,400 W | 230 V   | 1,120 mm | 580 mm | 620 mm | 56 kg        | 200 L    | 8436045913692 | £ 1,157.00 |



#### **O AIR CONTROL INFRARED REMOTE CONTROL**

INFRARED (2°



| REFERENCE | COLOUR     | HEIGHT | WIDTH | DEPTH | WEIGHT | EAN CODE      | TP       |
|-----------|------------|--------|-------|-------|--------|---------------|----------|
| ACMI120   | White 9010 | 177 mm | 54 mm | 21 mm | 115 gr | 8436045914286 | £ 135.00 |

Infrared remote control supports KYROS range (optional).

#### DINTE ACCESSOF

#### **O PROTECTIVE GRILL FOR ROINTE KYROS DIGITAL ELECTRIC RADIATORS**

A Protection System specially designed for KYROS radiators (optional), perfect for installation in public spaces.



| REFERENCE | PROTECTIVE GRILL FOR | COLOUR | HEIGHT | WIDTH    | DEPTH  | EAN CODE      | TP       |
|-----------|----------------------|--------|--------|----------|--------|---------------|----------|
| RPK0330   | KRI0330RAD2          | white  | 660 mm | 430 mm   | 150 mm | 8436045910677 | £ 73.00  |
| RPK0550   | KRI0550RAD2          | white  | 660 mm | 600 mm   | 150 mm | 8436045910615 | £ 81.00  |
| RPK0770   | KRI0770RAD2          | white  | 660 mm | 760 mm   | 150 mm | 8436045910622 | £ 89.00  |
| RPK0990   | KRI0990RAD2          | white  | 660 mm | 920 mm   | 150 mm | 8436045910639 | £ 98.00  |
| RPK1210   | KRI1210RAD2          | white  | 660 mm | 1.090 mm | 150 mm | 8436045910646 | £ 109.00 |
| RPK1430   | KRI1430RAD2          | white  | 660 mm | 1.260 mm | 150 mm | 8436045910653 | £ 119.00 |
| RPK1600   | KRI1600RAD2          | white  | 660 mm | 1.410 mm | 150 mm | 8436045910660 | £ 131.00 |



#### ( ) INSTALLATION KIT FOR ROINTE WATER HEATERS

| [2 | Guarantee |
|----|-----------|
|----|-----------|

| REFERENCE | FOR SIZES (L) | EXPANSION VESSEL    | TUNDISH       | PRESSURE REDUCING VALVE | RELIEF VALVE | EAN CODE      | TP       |
|-----------|---------------|---------------------|---------------|-------------------------|--------------|---------------|----------|
| KITRD01   | 50 L / 75 L   | 8 litres (0.1 MPa)  | 15 mm - 25 mm | 0.35 Mpa                | 0.60 Mpa     | 8436045911322 | £ 283.00 |
| KITRD02   | 100 L / 150 L | 12 litres (0.1 MPa) | 15 mm - 25 mm | 0.35 Mpa                | 0.60 Mpa     | 8436045911339 | £ 285.00 |
| KITRD03   | 200 L         | 18 litres (0.1 MPa) | 15 mm - 25 mm | 0.35 Mpa                | 0.60 Mpa     | 8436045911346 | £ 295.00 |



#### **O SUPPORT TRIPOD FOR ROINTE WATER HEATERS**



The floor stand consists of a metal tripod easily mounted and especially designed for supporting the 150L and 200L digital water heaters. Its installation is especially recommended for cases in that the wall fixings are not sufficient or the stability of the product is not guaranteed, as with models of very high weight when they are at 100% capacity.

| TP      |
|---------|
|         |
| 00.08 £ |
|         |

| REFERENCE | COLOUR | EAN CODE      | TP      |
|-----------|--------|---------------|---------|
| TPRD001   | white  | 8436045911315 | 00.08 £ |

#### **O ENERGY SAVING KIT FOR ROINTE WATER HEATERS**



Rointe has an energy saving kit, which can be installed close to the hot water outlet. This mixes the hot water with cold water from the main supply and this mixed water is piped to the point of use to arrive at the correct temperature. Using this valve minimizes heat losses through the pipes, saving energy.

| REFERENCE | CONNECTION | EAN CODE      | TP       |
|-----------|------------|---------------|----------|
| RTVAL1814 | 1/2"       | 8436045911353 | £ 150.00 |
| RTVAL1815 | 3/4"       | 8436045911360 | £ 180.00 |



#### **GENERAL CONDITIONS OF SALE**

#### 1. OFFERS AND ORDERS

Prices on our price list are for guidance only and may be subject to changes with no prior notice. ROINTE UK must confirm the order corresponding to any offers. Any special conditions included by the purchaser that do not meet the general terms and conditions shall be deemed as null and void, with exception of those cases in which there is a prior agreement specifying such changes confirmed in writing attached to the corresponding order.

#### 2. CANCELLATION OF ORDERS

ROINTE UK reserves the right to cancel orders pending for dispatch if the purchaser has not complied with the payment of any pending invoices, either in full or in part. No orders may be cancelled under the following circumstances:

a) If order contains special units whose manufacturing has begun.

b) If the items have been dispatched.

#### 3. DELIVERY CONDITIONS

Our products are supplied packaged with brackets, screws and fixings, the cost of which is included in the sale price. Our goods are deemed to be delivered when they are placed on the lorry in our warehouses in UK, except for offers with special conditions, and our liability as a haulier ends at that

Confirmed orders may be supplied in partial deliveries, unless the purchaser states otherwise. When the purchaser receives the goods, he/she will write "received pending checking" next to the signature in the haulier's delivery note.

#### 4. PRICES

Prices may be changed by notifying the purchaser and the new prices will be applied to all the orders pending delivery on the date of amendment. If the purchaser does not accept the new price, the order may be cancelled in writing within 8 days of notification of the increase. After this deadline, the new price will be deemed to have been accepted.

All currently applicable taxes and those which in the future may apply to the sale of our products on the date of delivery will be payable by the purchaser. Published prices are valid, except for misprints and are subject to change without prior notice.

#### **5. DELIVERY PERIOD**

The delivery dates shown in our order confirmations are for guidance purposes. Failure to comply with them will not be grounds for any reclamation by the purchaser.

#### 6. PAYMENT TERMS

The payment terms will be those shown in our order confirmation, contract made or the conditions agreed. Payment will be made under the conditions agreed with ROINTE UK. Payment may under no circumstances be delayed. Any failure to pay will lead to the immediate cancellation of the guarantee and the orders in progress. While the goods have not been paid for in full, they are deemed to be bonded goods in the purchaser's possession. ROINTE UK may postpone outstanding deliveries if there's grounds to believe that the purchaser will not fulfil the payment conditions. Non-payment of any invoice will be notified to the relevant institution according to the UK regulations.

All our materials are covered by their respective guarantees for any manufacturing fault from the date of sale and acceptance of the fault by our technical department will be required before the faulty

#### 8. RETURNS OF PRODUCTS IN GOOD CONDITION

No goods may be returned to our warehouses without our prior authorization, and 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 Rointe UK.

#### 9. JURISDICTION

For the resolution of any discrepancy, the parties specifically submit to the ordinary jurisdiction of UK, specially waiving any personal or material jurisdiction to which they may be entitled. These general terms of sale will apply to all trade relations between ROINTE UK and its clients, and purchasers 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 price list may not exactly match the final installed product.

## KNOW YOUR ROINTE

### **BUSINESS MANAGERS**

Do you want to know who manages Rointe business in your area? Go now to our website and click on Commercial Map. Here you can see who is your Key Account Manager and Regional Commercial Director. It's easy, simple and fast! Do not hesitate! Enter our new website www.rointe.co.uk







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