

# RADIWARM

## Technical Specification: Radiwarm Signature Electric Range

### Company Profile:

We're an independent British company based in Halifax, West Yorkshire and we've been manufacturing and selling water-filled and sand silica-filled electric radiators for almost 20 years.

The **Radiwarm Signature Electric Range** is a fully sealed, water-filled electric radiator offering hassle-free, energy-efficient heating. It eliminates the need for plumbing, and it is available with an optional **Low Surface Temperature (LST) Cover** for added safety in sensitive environments. Ideal for residential, commercial, and healthcare applications, it provides consistent, reliable heat with minimal installation effort.

**Product Name:** Radiwarm Signature Electric Radiator

### Model Options:

- **Conservatory Models:** HE4100 (1.100kW), HE4140 (1.625kW), HE4160 (1.840kW)
- **Standard Models:** HE6040 (0.383kW), HE6060 (0.790kW), HE6080 (0.840kW), HE6100 (1.480kW), HE6120 (1.900kW)

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### Product Overview:

- **Product Name:** Signature Electric Radiator (with LST Cover Option)
- **Product Type:** Electric Water-Filled Radiator with Optional Low Surface Temperature (LST) Cover
- **Manufacturing Origin:** Manufactured in the UK
- **Heating System:** Pre-filled, fully sealed water-based electric radiator
- **Application:** Suitable for residential, commercial, healthcare, and educational environments (including bathrooms and damp areas)
- **Compliance:**
  - **Lot 20 Compliant:** Eco-design directive compliance for energy efficiency
  - **IP44 Rating:** Rated for use in wet zone 2 (suitable for bathrooms and damp areas)



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## Key Features and Benefits:

- **Fully Sealed Design:** No need for plumbing, flushing, bleeding, or topping up, simplifying installation and maintenance.
- **Energy Efficiency:** 100% efficient, providing the full energy input as heat output.
- **Recyclability:** The radiator is made from recyclable materials, making it eco-friendly.
- **Smart Control Capabilities:**
  - Remote programming via web app
  - Adaptive start function
  - Holiday mode
  - Frost protection
  - Setback mode
  - Open window detection
- **Safety Features:**
  - **LST (Low Surface Temperature) Option:** Available for environments such as nurseries, healthcare facilities, and other safety-sensitive spaces.
  - **Five-Year Warranty** on shell, **Two-Year Warranty** on electronics.
- **Plug and Play:** Comes with a 1.9-meter cable and fused 13-amp plug, simplifying installation.

## Radiator Dimensions and Heat Outputs:

Model	Nominal Heat Output (kW)	Height (mm)	Length (mm)	Depth (mm)	Max Continuous Heat Output (kW)	Boiler Capacity - Peak Electrical Draw (kW)	Electricity Consumption in Standby Mode (kW)
<b>4100</b>	1.100	400	1000	100	1.100	1.5	<0.0005
<b>4140</b>	1.625	400	1400	100	1.625	2.0	<0.0005
<b>4160</b>	1.840	400	1600	100	1.840	2.0	<0.0005
<b>6040</b>	0.383	600	400	100	0.383	0.9	<0.0005
<b>6060</b>	0.790	600	600	100	0.790	0.9	<0.0005
<b>6080</b>	1.138	600	800	100	1.138	1.5	<0.0005
<b>6100</b>	1.480	600	1000	100	1.480	2.0	<0.0005
<b>6120</b>	1.900	600	1200	100	1.900	2.0	<0.0005



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## Material Specifications:

- **Body Material:** High-quality steel with a corrosion-resistant coating, designed for durability and high heat transfer efficiency.
- **Water-Filled Design:** Pre-filled with specially treated water for effective heat distribution.
- **Finish:** WHITE RAL9016.

## Performance Specifications:

- **Heating Efficiency:**
  - 100% energy-efficient heating output.
  - Provides consistent heat even in areas with temperature fluctuations.
- **Max Continuous Heat Output:** Matches the nominal heat output for continuous operation.
- **Electrical Consumption:**
  - Peak electrical draw ranges from **0.9 kW** to **2.0 kW** depending on model.
  - **Standby power consumption** is extremely low (<0.0005 kW) to ensure minimal energy waste.
- **Energy Efficiency Compliance:** Meets **Lot 20** eco-design directive, ensuring high energy efficiency standards.

## Installation Requirements:

- **Mounting:** Wall-mounted, with brackets included for safe and secure installation.
- **Electrical Connection:**
  - Requires a standard British electrical socket (13-amp plug included).
  - Ideal for retrofit and quick installation without the need for professional plumbing or electrician.
- **LST (Low Surface Temperature) Option:** Available for use in safety-critical environments, ensuring that the radiator surface temperature remains below safe levels to prevent burns or injuries.
- **Clearance Requirements:** Ensure adequate clearance for air circulation, typically around 150 mm from the floor height (as per manufacturer guidelines).

## Safety and Compliance:

- **IP44 Rated:** Protected against water splashes, making it suitable for wet zone 2 (including bathrooms and other damp areas).
- **CE Certification:** Conforms to European safety standards for electrical equipment.
- **Safety Features:**
  - Overheat protection
  - Frost protection
  - Overload protection

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## Warranty:

- **5-Year Warranty** on the radiator shell.
- **2-Year Warranty** on electrical components (3 years with registration)

## Smart Control Features:

- **Remote Programming:** Control the radiator remotely via a web app.
- **Adaptive Start:** Optimizes heating performance based on usage patterns, ensuring energy-efficient operation.
- **Holiday Mode:** Automatically reduces power consumption when the building is unoccupied.
- **Frost Protection:** Maintains a minimum temperature to avoid freezing in unoccupied spaces.
- **Setback Mode:** Reduces heat output when the temperature exceeds a set threshold, preventing overheating.
- **Open Window Detection:** Automatically adjusts the heat output when a window is opened to maintain efficiency.

## Environmental Impact:

- **Sustainability:** The radiator is 100% recyclable and designed to minimize its environmental footprint.
- **Energy Savings:** Reduces energy consumption compared to traditional heating systems, contributing to lower overall energy bills and carbon footprint.

## Conclusion:

The **Radiwarm Signature Electric Range** offers architects and developers a highly efficient, safe, and easy-to-install heating solution for a wide range of applications. Whether for residential, commercial, or healthcare settings, it ensures maximum comfort with minimal disruption.

## Contact Details:

For product details, consultations, or further specifications, please contact Radiwarm at:

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