

**Rointe**  
Your Heating & Cooling Experts

**voltimum**

# THE HIDDEN COST OF INEFFICIENT HEATING: A WAKE-UP CALL FOR ELECTRICAL PROFESSIONALS

**WATCH**



[www.rointe.co.uk](http://www.rointe.co.uk)

# Intro



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# Index

1. Why This Matters to You
2. The Real Cost of Inefficient Heating
3. What Most Installers Overlook
4. The Electrician's Role in Solving the Problem
5. Heating Tech That Changes the Game
6. Connected Homes Start with You
7. From Installer to Energy Expert
8. Futureproof Your Projects – Today
9. Next Steps: Tools, Support & Questions

# WHY THIS MATTERS TO YOU

The UK's legislative push for smarter, low-carbon homes is transforming building standards — and positioning electricians at the heart of the net-zero transition.

## UK's Net-Zero by 2050 & Climate Change Act 2008

Reaching net-zero by 2050 is not optional — it's a legal obligation, and heating professionals play a key role in cutting domestic emissions.

## New Energy Act 2023 & Smart Technologies

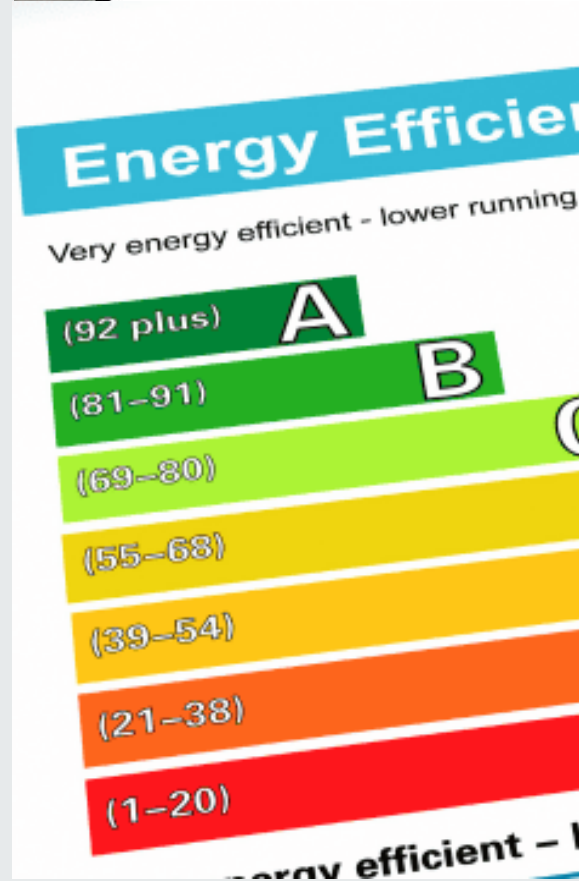
This new legislation paves the way for mandatory smart systems, making connected, efficient heating a regulatory requirement — not just a bonus.

## Building Regulations: Part L (Approved Document L1A / L2A)

New builds must now cut emissions by 31%, with 2025 targets rising to 75–80% — placing low-carbon heating and insulation at the centre of compliance.

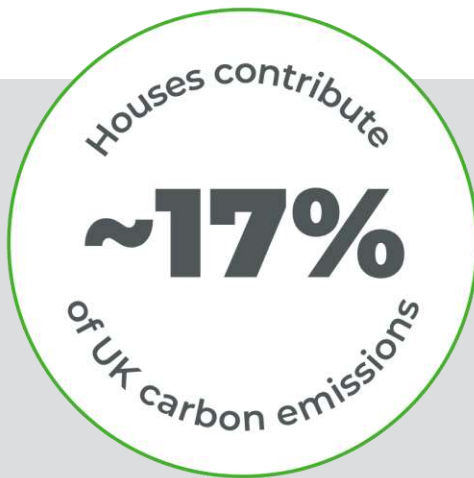
## EPC Regulations & Rising Compliance Pressures

By 2030, most homes will need to meet EPC Band C or face penalties — making efficient heating systems essential for legal and financial compliance.

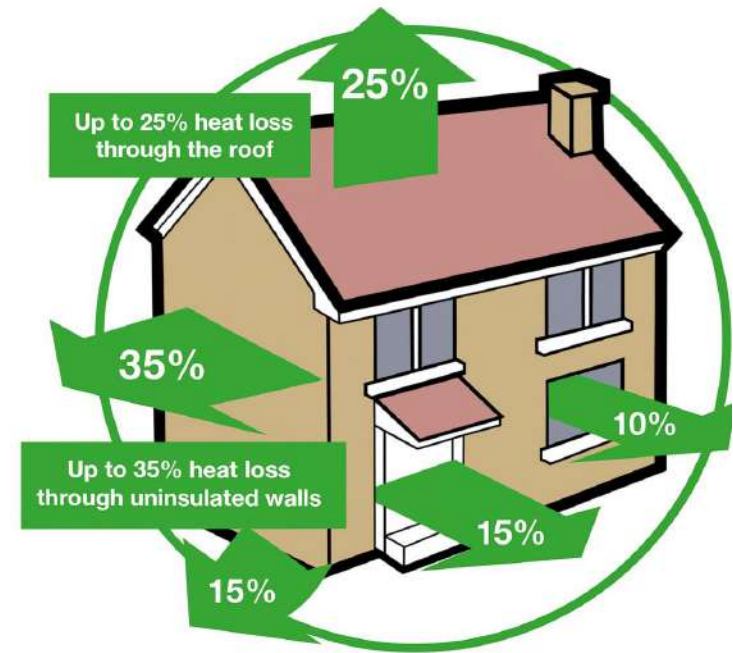


# THE REAL COST OF INEFFICIENT HEATING

Behind every outdated or poorly configured heating system lies an invisible cost — for both your clients and the planet.



Inefficient heating silently inflates energy bills, locks in emissions — and creates missed opportunities for professionals to add real value.



- Without tackling heating inefficiency, **net-zero is impossible**.
- Some UK new builds use  $\approx 400 \text{ kWh/m}^2$  annually due to **poor insulation and inefficient systems**. We are building homes today that will require expensive retrofits tomorrow.
- Many homes built since 2016 **cost up to £1,000 more per year in energy bills**. Poor efficiency isn't just an environmental issue — it's an expensive mistake.
- **Major factors:**
  - Outdated manual thermostats
  - Oversized or poorly zoned systems
  - Lack of smart scheduling or sensors
  - Always-on heating or no optimization

# What Most Installers Overlook



## Part L & Future Homes Standard: Regulations vs Reality

- **Building Regulations Part L updated in 2022:** 31% reduction on CO<sub>2</sub> emissions required for new builds
- **Future Homes Standard (2025–2027):** 75–80% emissions reduction required
- Focus on **low-carbon heating, PV panels, airtight design, and high fabric efficiency**



## Fabric-First vs Heating-First: A Costly Misconception

- Many installers jump straight to heating system upgrades without **assessing buildings fabric first**.
- Missing or inadequate **insulation**, air leakage, or thermal bridging leads to oversized systems and energy waste
- Example: A high-tech system in a poorly insulated home = expensive inefficiency



## The Retrofit Gap: Millions of Homes Need Fixing

**1.35 million homes effected+**

**£20k avg. retrofit cost**

**5+ billion in future upgrades**

# Your Role in Smarter Energy Use

Electricians aren't just fitting wires — they're futureproofing homes, lowering emissions, and guiding clients toward smarter energy decisions.

80%



80% of 2050  
homes already  
exist and most  
need smarter  
heating



From Installer  
to Energy  
Advisor



Accredited,  
Skilled, Ready  
for the Future



# ○ Heating Tech That Changes the Game – **Smart Adaptive Inverter**

Forget old-school on/off systems — inverter-based electric heating adapts in real time, reduces peak loads, and plays a key role in the UK's net-zero future.



OLD TECH



SMART INVERTER

Traditional electric heaters: simple on/off control, always full power  
Vs.

Inverter systems modulate power output continuously depending on room demand



Inverter-based heating cuts operational emissions by up to 80% aligning with Future Homes Standard



Inverter heating maintains consistent room temperature, no over-heating or rapid cooling cycles

# ○ **Your Comfort** **25% Faster** **35% More stable** **10% More efficient**



FASTER HEATING SPEED



MANAGED WITH AI

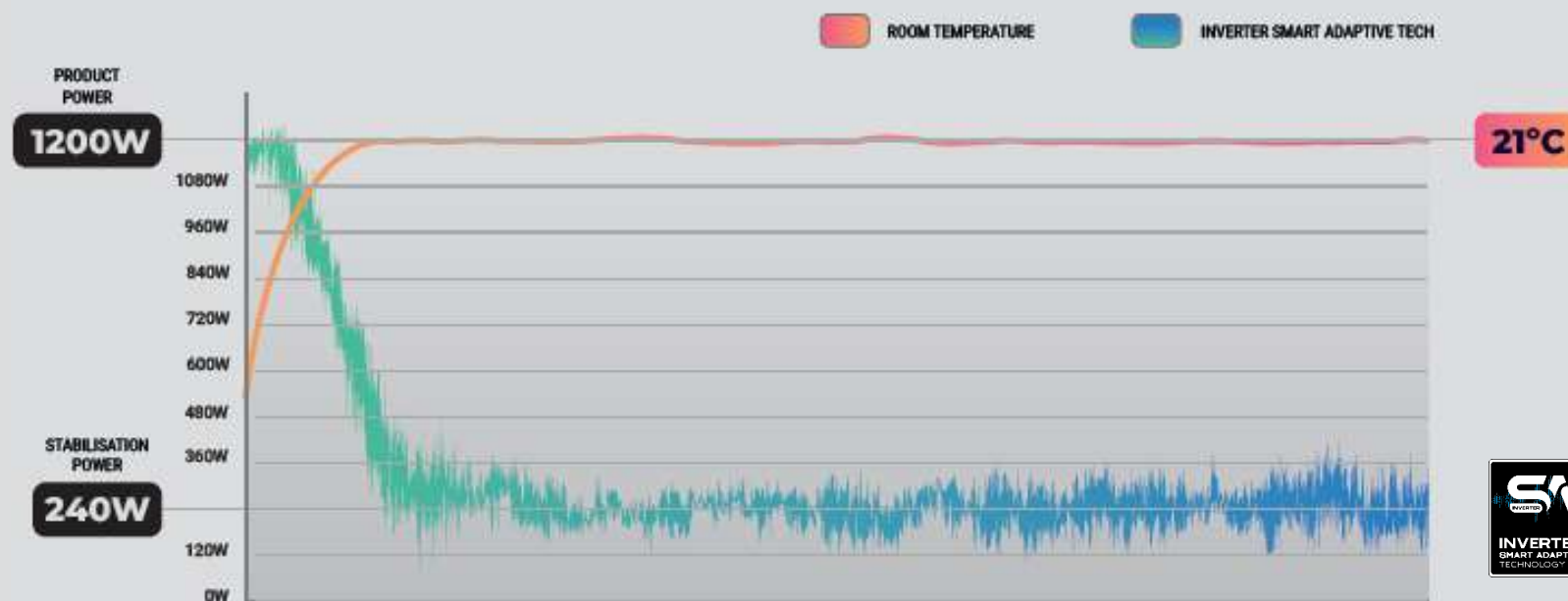


LOWER STABILIZATION POWER



MORE STABLE ELECTRICITY CONSUMPTION

Thanks to **Inverter Smart Adaptive Technology**, Rointe products can now intelligently **monitor and adjust their power usage**, adapting seamlessly to the specific needs of each installation. By automatically varying power output based on factors like room size and target temperature, this technology ensures a more stable indoor climate while significantly reducing energy consumption—making Rointe products **more efficient than ever** before.

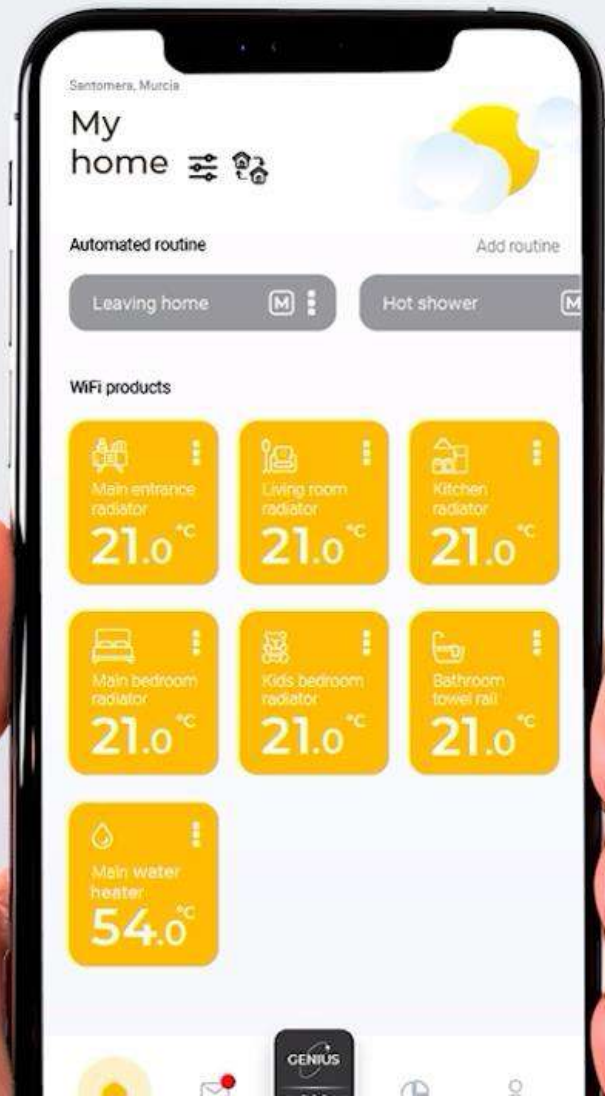




# Connected Homes Start with You – Using Apps & Data to Drive Value



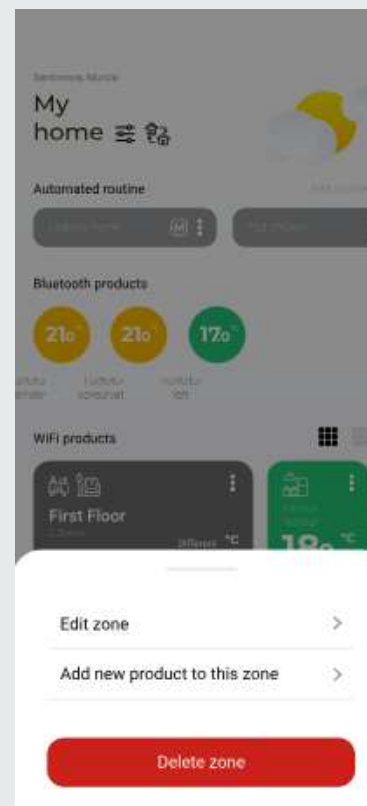
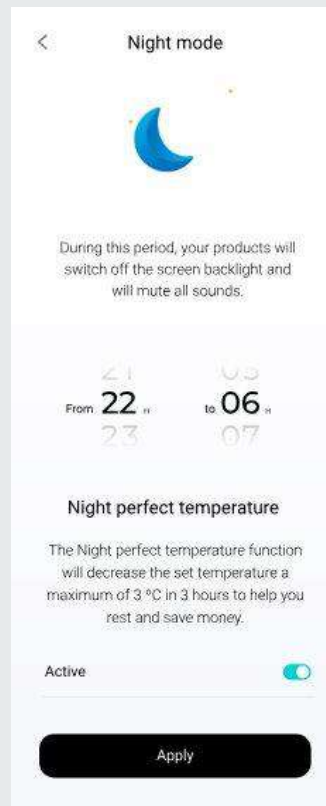
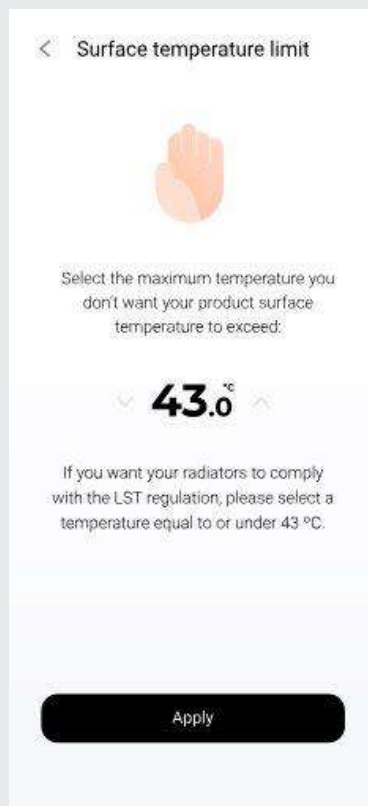
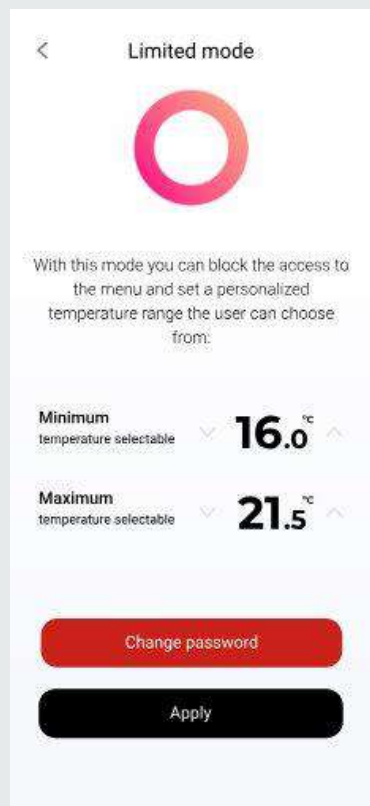
Smart heating isn't just efficient – it's interactive, insightful, and increasingly essential for legal compliance and client satisfaction.





# Rointe Nexa: Full Control, Real Efficiency

Rointe Nexa turns electric heating into a connected experience — smarter, more intuitive, and tailored to modern lifestyles.





# ROINTE RADIATORS

- Options **with and without WiFi**
- Radiators with our high heat transfer **thermal fluid** and with **stone core** for long lasting heat retention
- Radiators with **full aluminium casing** (patented design)
- Radiators in **different finishes**: white, black, oyster white, pearl beige and dark grey



Comfort, Eco and  
Anti-frost mode



Bluetooth  
pairing



High sensitivity  
thermostat

**35%**

Effective  
Power<sup>3</sup>



Night saving  
mode



Early Start  
function



TRP consumption  
meter<sup>2</sup>



Lock from  
product & App



Open Windows  
function



Holiday  
mode



Countdown  
timer



Power  
limitation



Limited mode  
for guests

**LST**

Surface temp.  
limitation

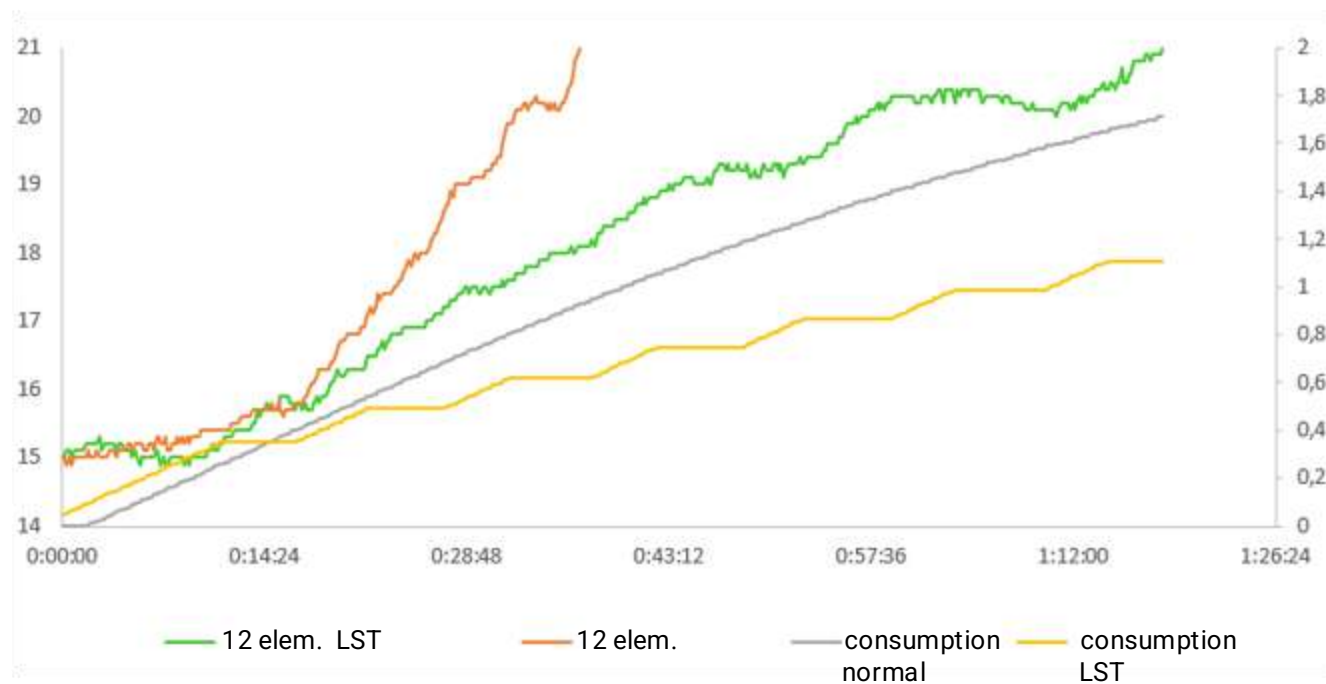
# LOW SURFACE TEMPERATURE (LST)



Rointe LST radiators incorporate an innovative sensor that measures the product's surface temperature and allows users to customize its operation through the app or via the product itself, effectively reducing contact temperature.

**LST RADIATOR**

100% safe for:  
nurseries, schools,  
care homes, housing  
associations, hospitals...



LST HEATING TIME



ONYX

WI-FI DIRECT



## HIGH HEAT RETENTION STORAGE HEATER WITH WIFI & AI



**Slim Dynamic Storage Heater with a Direct Wifi connection:** No gateways needed. With a Wi-Fi module inside that allows direct connection of the products to the router without gateways, meaning that no extra hubs are required for this feature.

**10% better heat retention in comparison with other alternatives:** Most traditional storage heaters retain around 50%. Rointe Onyx retains 60% due to the special Mg-Fe alloy thermal bricks inside for higher inertia and heat storage.

**Single or dual feed:** The Onyx comes as single or dual feed. Therefore, it can be refitted to an existing Economy 7 circuit or included in a new installation. No need for costly installation updates.

**EPC compliant:** From 2028, all rental properties are required to have a C rating or above. The combination of one storage heater + Rointe Electrical radiators can improve the EPC rating significantly and offer the renters an energy efficient heating solution



DIRECT CONTROL  
WITHOUT GATEWAYS



HIGH HEAT RETENTION  
(HHR)

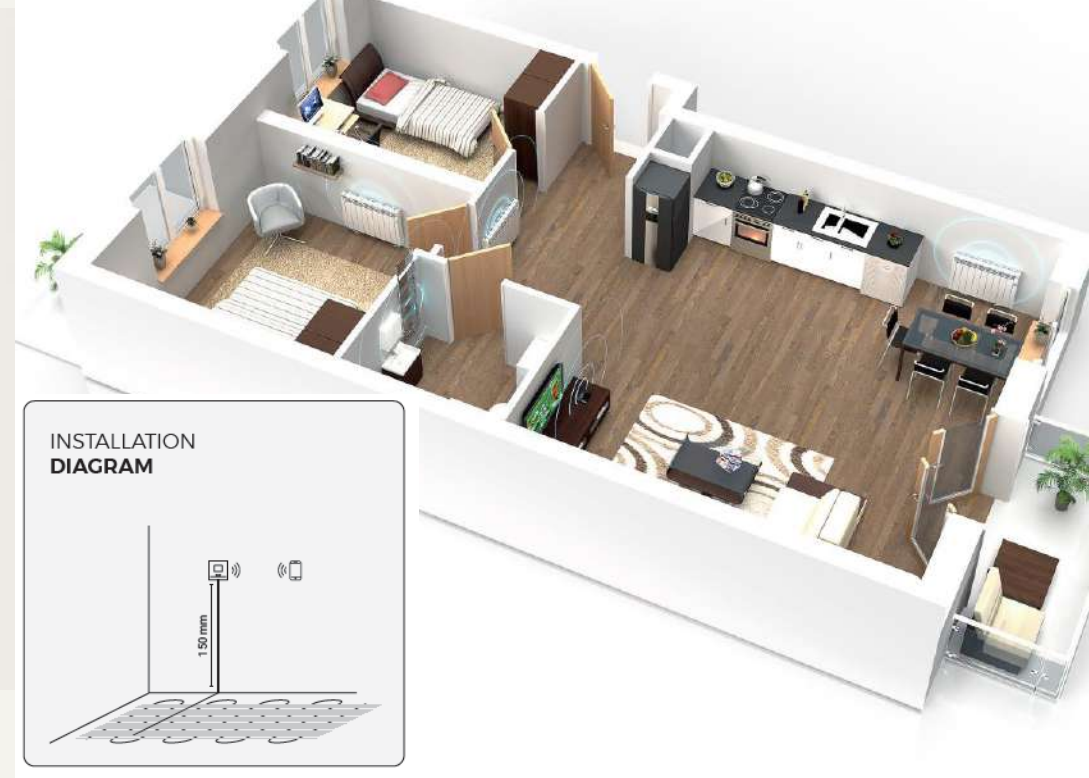


MAXIMUM ENERGY  
SAVINGS



INVERTER OPERATION

# GENIUS THERMOSTAT CENTRALIZED CONTROL FOR YOUR SYSTEM



With two modes available, the Genius thermostat is Rointes solution to a central thermostat.

## **Zone Manager:**

Control all the radiators in your installation from one central location. They will still heat according to their own thermostats, however this allows you to control them all at once.

## **Smart Manager:**

This function overrides the individual thermostats on the radiators themselves, having them heat while paying attention to the temperature sensor on the Genius thermostat.

# ROINTE UNVENTED WATER HEATERS & HEAT PUMP



- **Wide range of water heating solutions** — from compact under-sink heaters to high-capacity aerothermal systems
- **Smart connectivity** — models like Rome include Wi-Fi and app control for remote temperature management
- **Energy-efficient technology** — aerothermal heat pump (Dalis Pro) delivers up to 75% energy savings
- **Flexible installation** — vertical, horizontal, over- or under-sink options to suit any space





WiFi DIRECT



WiFi DIRECT



# ROINTE TOWEL RAILS

- **Smart and non-connected models** — with Wi-Fi, app control, or simple use
- **Heating options** — thermal fluid-filled or dry element for fast response
- **Premium materials** — 100% steel or stainless steel with sleek, integrated designs
- **Multiple finishes** — White, Matt Black, Chrome, Brushed Brass, and more



Comfort, Eco and  
Anti-frost mode



Bluetooth  
pairing



High sensitivity  
thermostat

**35%**

Effective  
Power<sup>3</sup>



Night saving  
mode



Early Start  
function



TRP consumption  
meter<sup>2</sup>



Lock from  
product & App



Open Windows  
function



Holiday  
mode



Countdown  
timer



Boost function  
up to 2 hours



Limited mode  
for guests

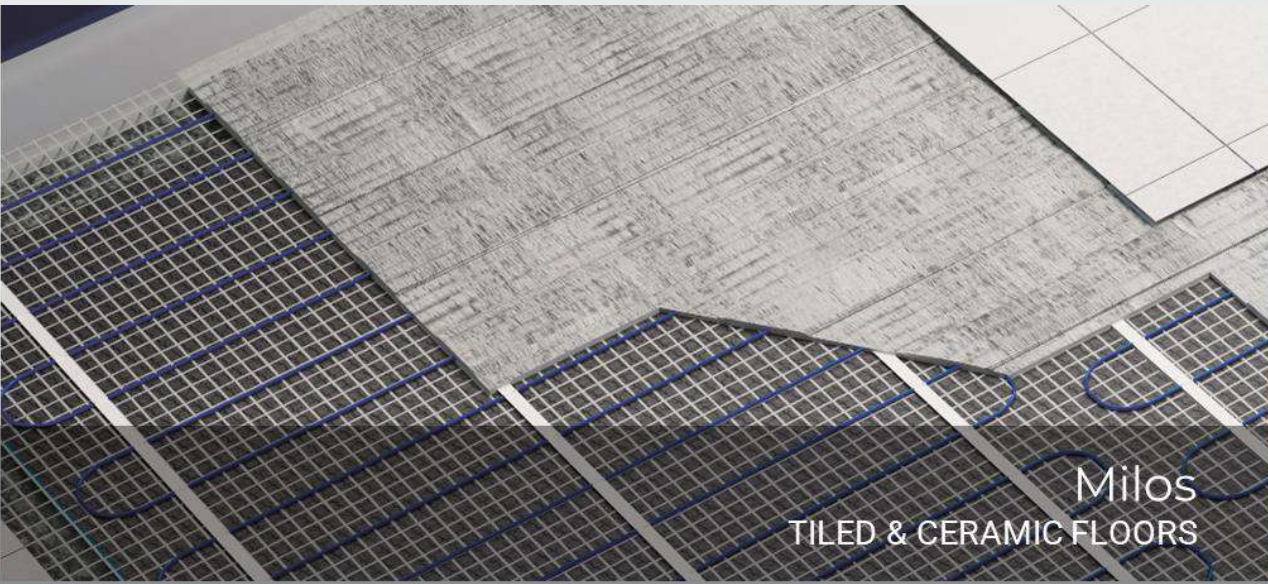
**LST**

Surface temp.  
limitation

# ROINTE

## UNDERFLOOR HEATING

- **Complete system solutions** — from heating mats (Milos & Erko) to thermostats and accessories
- **Smart control options** — choose from Genius Wi-Fi thermostat with AI or simple ST.2/ST.3 models
- **Energy-efficient comfort** — intelligent programming, open window detection, and adaptive features
- **Easy installation** — thin mats for fast laying, invisible wiring, and user-friendly interfaces



# From Installer to Energy Expert

Today's professionals do more than install – they diagnose, advise, and design futureproof energy solutions.



**Traditional Installer**

- “Just fit and go”
- Limited post-install interaction
- No client education or optimization
- Unaware of available retrofit schemes
- Reactive (fix problems after they arise)



**Energy Expert**

- Educates clients in app use, EPC impact, and energy savings
- Tunes systems for comfort + performance
- Provides data-backed advice for upgrades
- Helps clients access GBIS / ECO4 / EPC funding routes

# Next Steps: Tools, Support & Questions



SCAN &  
DOWNLOAD  
NOW THE  
NEW APP



## RointePro

- Access to fact sheets and installer guides
- Trainings availables
- By signing up to RointePro you will receive a one year warranty extension for your Rointe products
- On top of, you can receive up to 5% money back in love2shop vouchers for all your Rointe products purchased



**Roointe**40*years*  
OF EFFICIENT COMFORT  
1985 - 2025

Thank you  
for your attention