HOME ENERGY HUB NORFOLK

Product Explainer

High Heat Retention Storage Heaters

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Smarter electric heating that locks in warmth longer.

What are high-heat retention storage heaters?

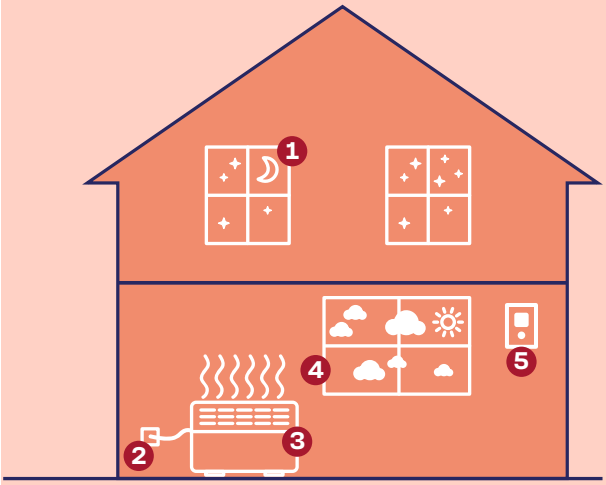
High heat retention storage heaters are a modern, more efficient version of traditional electric storage heaters.

They're designed to:

- store heat more effectively
- release warmth when you actually need it
- give you far more control over comfort and running costs

They're especially useful in homes that don't have gas central heating, or where older electric heaters are expensive and less efficient.

How do high heat retention storage heaters work?



These heaters take advantage of **off-peak electricity**, usually overnight, when energy can be cheaper.

The process works like this:

1. the heater charges up during off-peak hours
2. heat is stored inside dense heat-retaining blocks
3. high-performance insulation keeps that heat locked in
4. during the day, warmth is released gradually into the room
5. controls manage when and how much heat is delivered

Rather than losing heat early in the morning (as older models often do), high retention models are built to hold onto warmth for much longer.

Visit **homeenergyhubnorfolk.org.uk/heaters** for more information.

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Key benefits of high heat retention storage heaters

Modern storage heaters offer several practical advantages:

Better warmth, for longer

Improved insulation helps the heater hold heat throughout the day.

More control over comfort

Built-in thermostats and timers let you set heating around your routine.

Reduced wasted energy

Smart charge controls help avoid overheating or storing more heat than needed.

High heat retention storage heaters efficiently store heat, reduce wasted energy, offer controllable warmth, and suit many off-gas homes.

Ideal for off-gas homes

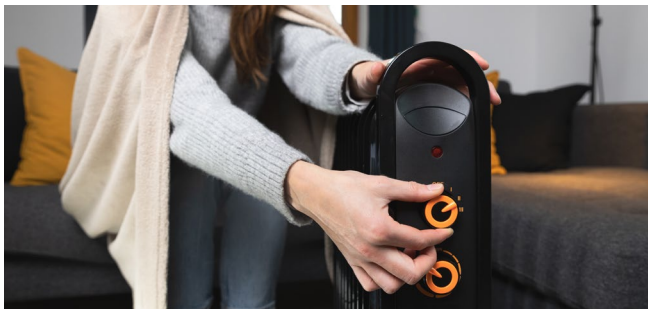
A good option for smaller properties or flats, without access to mains gas.

Room-by-room flexibility

Each heater can be controlled individually, so you only heat the spaces you use.

Simple upgrade compared to full system changes

Installation is usually less disruptive than replacing an entire heating system.



What you should be aware of (possible downsides)

Storage heaters can be a brilliant fit, but it's worth knowing:

Works best with the right electricity tariff

Many systems perform best with off-peak tariffs. For example, Economy 7 charges electricity at a lower rate for 7 hours, usually from midnight to 7 am.

Heat is stored in advance

You're planning warmth ahead of time, rather than instant "on demand" heating.

Not the same as a heat pump system

Storage heaters don't provide hot water they're for space heating only.

Heaters are larger than standard radiators

Because they store heat internally, they can take up more room than panel heaters.

What to expect during installation

Installing high heat retention storage heaters is usually straightforward.

The process may include:

- removing old electric heaters if needed
- fitting new high retention units in key rooms
- connecting them safely to your home's electrics
- setting up controls, timers and thermostats
- explaining how to programme the system for your heating preferences

Most installations can be completed with minimal disruption.

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What you need to know after installation

Once installed, these heaters are designed to run quietly and efficiently in the background.
After installation:

- you'll be shown how to use the controls easily
- the heater will automatically manage charging and heat release
- you may want to review your electricity tariff to maximise savings
- simple programming can make a big difference to comfort

The goal is steady, reliable warmth — without needing to constantly adjust settings.

Frequently asked questions

Are these different from old storage heaters?

Yes. High retention models are far better insulated and include smart controls, meaning less wasted heat and more comfort.

Will they keep my home warm all day?

It depends. These systems are designed to hold heat longer than older systems and release warmth when needed. How warm your home stays will depend on ventilation, heater settings, and how much energy you choose to use.

Are they expensive to run?

Running costs depend on your tariff and how they're programmed, but modern units are significantly more efficient than outdated electric heaters.

Do they provide hot water too?

No storage heaters provide room heating only. Immersion heater systems are separate.

Check your funding options

If you meet the programme criteria, high heat retention storage heaters may be available with **full grant funding**, covering the cost of installation and any required surveys.

There's no obligation, you'll only go ahead once you're happy with the plan.

Other solutions that could work for you

Storage heaters are often part of a wider whole-home approach, alongside:

- Loft or wall insulation
- Solar panels
- **Ventilation improvements** (for a healthier, more efficient home)

WE CAN HELP YOU GET THAT WARM FUZZY FEELING.

Looking to improve your home's warmth?

Whether you know the upgrade you need or are exploring available support, help is available.

Get in touch to check suitability and funding options.
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