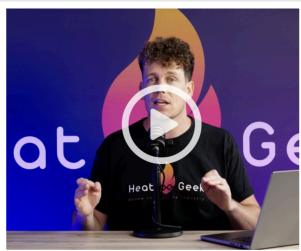


Heat Geek Performance Guarantee

We ensure your system performs AT LEAST as efficiently as we quote on our proposal, guaranteeing the lowest possible running costs.

If the efficiency level is not met, or your property does not reach comfort temperature for any reason, we will ensure that your system is rectified completely free of charge.

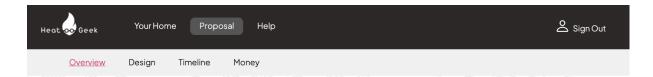




Heat Geek Installation Guarantee

We make sure that if any unintended issues arise with your installer—such as sickness or any other circumstance preventing them from completing the job—we will send another vetted installer. This replacement will be trained to the same highest standards and will adhere to the same code of conduct, finishing the job exactly as the proposal and maintaining our performance guarantee.





Overview

Here's a summary of your new high-efficiency heating system.

For more details, use the tabs above to explore your proposed system design, pricing options, and next steps. For design questions, please contact your Heat Geek. For other inquiries, you can email the Upgrades team at upgrades@heatgeek.com.

Your new heating system							
	Guaranteed minimum efficiency	330%					
	Heat pump	Vaillant aroTHERM plus 5kW					
0	Hot water cylinder	Newark Cylinders MiniStoreXL 130L					
	Radiators and emitters	2 new radiators					
	Estimated running costs	£22 per month					
[-£-]	Final price	£8,009 or£90 permonth					

A word from Ali Sutor

Here are some notes your Heat Geek has included in your proposal:

admin@smartheatingsolutions.co.uk





Proposal Overview: This proposal is based on our design consultation and heat demand survey. We have carefully assessed the heating requirements for each room, determining the appropriate type and size of emitters (radiators) and the correct ASHP (air source heat pump) capacity. The proposal covers the design, supply, and installation of a new ASHP system, along with the plant and hot water cylinder, as part of a comprehensive heating system retrofit. The hot water cylinder and immersion heater are Solar PV-ready, though a solar immersion controller (e.g., iBoost) will be required to integrate with solar PV. The primary heating system will be designed as an open-loop system with weather compensation. This design ensures a consistent, comfortable indoor climate while optimizing efficiency with low flow temperatures. Scope of Work: • ASHP Installation: The ASHP unit will be installed at the identified location (as per the survey), on either a solid base or wall brackets, based on the site conditions and suitability. • Pipework Installation: We will install all necessary pipework to connect the ASHP to the internal heating system. This includes the flow and return pipes for the heating circuit and any additional plumbing needed to integrate the hot water and cold water to the new cylinder and system. • Hot Water Cylinder Installation: A new Heat Geek Mini Store will be supplied and installed in the existing cylinder location, this is optimised for use with the ASHP's lower water temperatures but able to provide sufficient volumes and flow of water whilst keeping the same location as the existing cylinders. It's recommended that all showers are fitted with flow restrictors to 6 l/min to increase the efficiency and performance of the hot water. Further details can be found here: https://newarkcylinders.co.uk/heatgeekministore • Radiator Upgrades: Radiators will be installed according to the calculated

system requirements to ensure optimal heating. We will install standard white panel radiators or chrome towel rails, though decorative radiators can be supplied at an additional cost. Customers are responsible for ensuring the specified radiators (as per the Heat Loss Survey) fit the available space. Any necessary replacements due to sizing issues may incur additional charges. System Volume: To ensure maximum run times and minimise cycling of the heat pump at base load conditions we need to ensure minimum open loop water volumes are available. The open loop volume of the radiators and pipework are insufficient and a $volumiser is required. \bullet System Adaptation \& Pressure Loss: The system pressure loss has been calculated accurately to verify that the system of the syste$ match the new system. All newly installed heating, hot, and cold water pipework will be pressure-tested as far as reasonably practical. The new cylinder will be relocated to the back of the existing utility/cupboard and all heating, hot and cold water pipework amended to suit. • Weather Compensation: The system will include weather compensation controls, which adjust the heating output based on outdoor temperatures. This feature ensures that the system operates efficiently, offering consistent and comfortable heating with minimal energy consumption. • Electrical Work: We will carry out all necessary electrical work to power the ASHP and associated controls. This includes wiring the ASHP back to a new consumer unit with suitable breakers. The new controls will be $powered \textit{via} \textit{the existing heating circuit's supply}. \textit{We will install the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the power supply for the heat pump back to the consumer unit and the consumer unit$ amend the existing supply for the controls circuit and immersion on the cylinder. • Flushing & Filling: Once the installation is complete, the system will be flushed to remove any debris, preventing contamination of the heat pump and radiators. The system will be filled with demineralized water and pressure-tested to ensure there are no leaks. • Commissioning & Handover: The ASHP and $heating\ system\ will\ be\ commissioned\ to\ ensure\ everything\ operates\ correctly.\ We\ will\ calibrate\ the\ system\ to\ meet\ your\ desired$ settings and provide a full handover. During the handover, we will explain the operation of the ASHP and controls, including how to maintain the system, set heating schedules, and maximize efficiency. You will also receive all necessary documentation, including warranties, user manuals, and maintenance instructions. • Separation of Responsibilities: Any elements of the existing system not installed by us will be isolated using lever valves (as far as practical). This ensures a clear separation of responsibilities between our $work, the \ existing \ system, and \ any \ other \ contractors \ involved. \ Additional \ Details: Our \ goal is to \ offer \ a \ clear \ and \ transparent \ cost$ $estimate for the system in stallation. Any unforeseen costs, such as {\tt Energy Performance Certificate requirements}, DNO works, or {\tt Energy Performance Certificate requirements}, and {\tt Energy Performance Certificate requirements}. The {\tt Energy Performance Certificate requirements}, and {\tt Energy Performance Certificate requirements}, and {\tt Energy Performance Certificate requirements}. The {\tt Energy Performance Certificate requirements}, and {\tt Energy Performance Certificate requirements}, and {\tt Energy Performance Certificate requirements}. The {\tt Energy Performance Certificate requirements}, and {\tt Energy Performance Certificate requirements}, and {\tt Energy Performance Certificate requirements}. 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 $be filled \ with \ demineralized \ water \ and \ pressure-tested \ to \ ensure \ there \ are \ no \ leaks. \bullet Commissioning \ \& \ Handover: The \ ASHP \ and \ handover: ASHP \ and \ handover: The \ ASHP \ and \ handower: The \ ASHP \ and \ handowe$ $heating\ system\ will\ be\ commissioned\ to\ ensure\ everything\ operates\ correctly.\ We\ will\ calibrate\ the\ system\ to\ meet\ your\ desired$ settings and provide a full handover. During the handover, we will explain the operation of the ASHP and controls, including how to maintain the system, set heating schedules, and maximize efficiency. You will also receive all necessary documentation, including $warranties, user manuals, and maintenance instructions. \bullet Separation of Responsibilities: Any elements of the existing system not the second of the existing system of the existing s$ installed by us will be isolated using lever valves (as far as practical). 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If we encounter any unforeseen issues, such as electrical or building work requirements, we will $provide \, an updated \, assessment \, of \, the \, associated \, costs \, before \, proceeding. \, Any \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, during \, the \, installation \, process \, and \, changes \, requested \, and \, cha$ will be quoted at the daily or hourly rate of our installers. Exclusions: We cannot be held responsible for any equipment, services, or a support of the daily or hourly rate of our installers. Exclusions: We cannot be held responsible for any equipment, services, or a support of the daily or hourly rate of our installers. Exclusions: We cannot be held responsible for any equipment, services, or a support of the daily or hourly rate of our installers. Exclusions: We cannot be held responsible for any equipment, services, or a support of the daily or hourly rate of our installers. Exclusions: We cannot be held responsible for any equipment, services, or a support of the daily or hourly rate of our installers. Exclusions: We cannot be held responsible for any equipment, services, or a support of the daily of the dcontrols reused as part of this project unless otherwise specified. This proposal does not include painting, decorating, boxing-in of pipework, or relaying floor finishes. Additionally, any work involving as bestos will require a separate survey and quotation. If as bestos will require a separate survey and quotation of the second secois discovered, work will halt until it is made safe. Lifting and replacing carpets or other floor coverings, as well as repairs or modifications to defects in the existing system, are also excluded. Any redundant flue holes in the wall or roof will need to be made good by others.

Parts provided Vaillant aroTHERM plus 5kW Heat Pump Newark Cylinders MiniStoreXL 130L Hot Water Cylinder Radiators and Emitters (more details on Design)

Small Parts and Accessories

Labour provided
End-to-End Heat Pump installation
Hot Water Cylinder installation
Radiator installation
Radiatorinstallation

Price summary		
Parts	£9,829	
Labour	£5,680	
Total price	£15,509	
Government grant ?	-£7,500	
Final price	£8,009	

You can find the full price breakdown on the Money page

What you'll need to do

To help ensure a smooth installation process, here are a few things we recommend you prepare ahead of time:



Ensure all <u>prerequisites</u> for your home have been completed.



Organise an appropriate parking space for your Heat Geek and the delivery of parts



Clear out space for your Heat Geek to operate, especially around agreed heat pump and cylinder locations.



Provide clear access to your consumer unit (fuse box), electricity meter, and main incoming fuse. Complete any necessary electrical work before your installation date.



Overview <u>Design</u>

Timeline

Money



Our plan for your home

Your design is created from everything we know about your home. As we learn more about your home this may change until we agree on a final proposal.



What we will install:

- Heat pump: Vaillant aroTHERM plus 5kW
- Cylinder: Newark Cylinders MiniStoreXL 130L
- Controls: MyVaillant Connect Internet Gateway VR8/32, Vaillant sensoCOMFORT (Wireless Controls)
- Pipes, valves and radiators



Where it will go:

From looking at your house we think you can site a heatpump outside your home. It looks like you might need planning permission.



Estimated system efficiency:

330% efficiency at 47°C max flow temperature.



Your Design

Thank you for having us in your home. Below is a summary of your proposed design.

HOUSELOSS	ROOMS	EXT. TEMP.
2.25	6	-2.0
kW	Total	°C

Ground Floor

Kitchen

Heat loss: 0.58 kW

Design temperature: 21.0 °C

Radiators

 New-type 21-600 x 1200 mm 1580 W@dT50

Living room

Heat loss: 0.78 kW

Design temperature: 21.0 °C

Radiators

- New-type 21-500 x 1200 mm 1320 W@dT50
- Existing type 22 600 x 600 mm 1030 W@dT50

First Floor

Bed 1

Heat loss: 0.32 kW

Design temperature: 21.0 °C

Radiators

 Existing - type 11 - 600 x 1100 mm 1030 W@dT50

Landing

Heat loss: 0.09 kW

Design temperature: 21.0 °C

Bed 2

Heat loss: 0.30 kW

Design temperature: 21.0 °C

Radiators

 Existing - type 11 - 600 x 800 mm 750 W@dT50

Bathroom

Heat loss: 0.18 kW

Design temperature: 21.0 °C

Radiators

 Existing - type 0 - 1600 x 500 mm 470 W@dT50

Additional notes on your proposal

Proposal Overview:

This proposal is based on our design consultation and heat demand survey. We have carefully assessed the heating requirements for each room, determining the appropriate type and size of emitters (radiators) and the correct ASHP (air source heat pump) capacity.

The proposal covers the design, supply, and installation of a new ASHP system, along with the plant and hot water cylinder, as part of a comprehensive heating system retrofit. The hot water cylinder and immersion heater are Solar PV-ready, though a solar immersion controller (e.g., iBoost) will be required to integrate with solar PV.

The primary heating system will be designed as an open-loop system with weather compensation. This design ensures a consistent, comfortable indoor climate while optimizing efficiency with low flow temperatures.

Scope of Work:

• ASHP Installation:

The ASHP unit will be installed at the identified location (as per the survey), on either a solid base or wall brackets, based on the site conditions and suitability.

• Pipework Installation:

We will install all necessary pipework to connect the ASHP to the internal heating system. This includes the flow and return pipes for the heating circuit and any additional plumbing needed to integrate the hot water and cold water to the new cylinder and system.

• Hot Water Cylinder Installation:

A new Heat Geek Mini Store will be supplied and installed in the existing cylinder location, this is optimised for use with the ASHP's lower water temperatures but able to provide sufficient volumes and flow of water whilst keeping the same location as the existing cylinders.

It's recommended that all showers are fitted with flow restrictors to 6 l/min to increase the efficiency and performance of the hot water.

Further details can be found here: https://newarkcylinders.co.uk/heatgeekministore

Radiator Upgrades:

Radiators will be installed according to the calculated system requirements to ensure optimal heating. We will install standard white panel radiators or chrome towel rails, though decorative radiators can be supplied at an additional cost. Customers are responsible for ensuring the specified radiators (as per the Heat Loss Survey) fit the available space. Any necessary replacements due to sizing issues may incur additional charges.

• System Volume:

To ensure maximum run times and minimise cycling of the heat pump at base load conditions we need to ensure minimum open loop water volumes are available.

The open loop volume of the radiators and pipework are insufficient and a volumiser is required.

• System Adaptation & Pressure Loss:

The system pressure loss has been calculated accurately to verify that the existing pipe sizing and velocities fall within the ASHP's circulator tolerances. Existing pipework will be adapted or replaced to match the new system. All newly installed heating, hot, and cold water pipework will be pressure-tested as far as reasonably practical. The new cylinder will be relocated to the back of the existing utility/cupboard and all heating, hot and cold water pipework amended to suit.

• Weather Compensation:

The system will include weather compensation controls, which adjust the heating output based on outdoor temperatures. This feature ensures that the system operates efficiently, offering consistent and comfortable heating with minimal energy consumption.

• Electrical Work:

We will carry out all necessary electrical work to power the ASHP and associated controls. This includes wiring the ASHP back to a new consumer unit with suitable breakers. The new controls will be powered via the existing heating circuit's supply.

We will install the power supply for the heat pump back to the consumer unit and amend the existing supply for the controls circuit and immersion on the cylinder.

• Flushing & Filling:

Once the installation is complete, the system will be flushed to remove any debris, preventing contamination of the heat pump and radiators. The system will be filled with demineralized water and pressure-tested to ensure there are no leaks.

• Commissioning & Handover:

The ASHP and heating system will be commissioned to ensure everything operates correctly. We will calibrate the system to meet your desired settings and provide a full handover. During the handover, we will explain the operation of the ASHP and controls, including how to maintain the system, set heating schedules, and maximize efficiency. You will also receive all necessary documentation, including warranties, user manuals, and maintenance instructions.

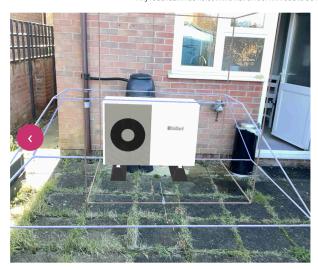
• Separation of Responsibilities:

Any elements of the existing system not installed by us will be isolated using lever valves (as far as practical). This ensures a clear separation of responsibilities between our work, the existing system, and any other contractors involved.

Additional Details:

Our goal is to offer a clear and transparent cost estimate for the system installation. Any unforeseen costs, such as Energy Performance Certificate requirements, DNO works, or planning-related issues, will be communicated promptly. Should there be unexpected delays beyond our control, we will discuss the potential implications with you. If we encounter any unforeseen issues, such as electrical or building work requirements, we will provide an updated assessment of the associated costs before proceeding. Any changes requested during the installation process will be quoted at the daily or hourly rate of our installers.

Any required in the holes in the wall of root will heed to be made good by others.



How your heat pump will look

→

What we'll install for you

 $We're\ excited\ to\ provide\ you\ with\ an\ overview\ of\ the\ fantastic\ equipment\ we'll\ be\ installing.$





Vaillant aroTHERM plus 5kW

We have great experience working with Vaillant. Their equipment is incredibly quiet, reliable and most of all, efficient. We continue to choose them because the slightly higher up-front cost is quickly returned by the running efficiencies. They also feature amazing controls that allow us to enable important settings such as Weather Compensation (utilising a solar powered wireless sensor!).

 Power
 5.00 kW

 Energy Rating
 A++++

 Warranty
 7 years



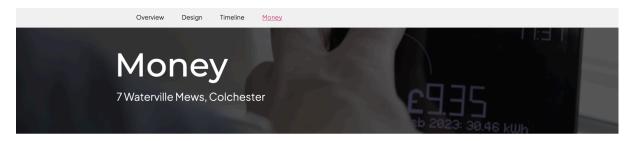
How it will perform

Heat pumps use a small amount of electricity to move a large amount of heat from outside, into your home, making them significantly more efficient than boilers.









Price



£8,009

How does finance work?

pay in full

Loan Details (representative example)*

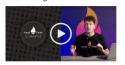
	-,
Install Total	£15,509
BUS Grant ①	-£7,500
Cash Price	£8,009
Deposit	£99
Loan Amount	£7,535
Total Interest Payable	£8,656
Total Amount Payable	£16,191
Fixed Interest Rate	11.9% APR
Agreement Duration No early repayment charge ①	15 years
Monthly Payments	£89.95
£90	per month

Pricing Explained

Your price is created from everything we know about your home, including the design consultation we have conducted and any conversations following that.

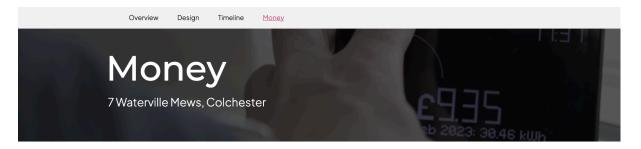
Heat Geek Guarantee

Learn more about the Heat Geek performance and installation guarantee.

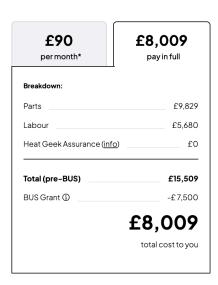


Boiler Upgrade Scheme (BUS)

You're eligible for the Government \underline{BUS} . This allows us to pass on a £7,500 reduction in price to you. We'll do all the required applications on your behalf and you won't have to pay this money up front.



Price



Pricing Explained

Your price is created from everything we know about your home, including the design consultation we have conducted and any conversations following that.

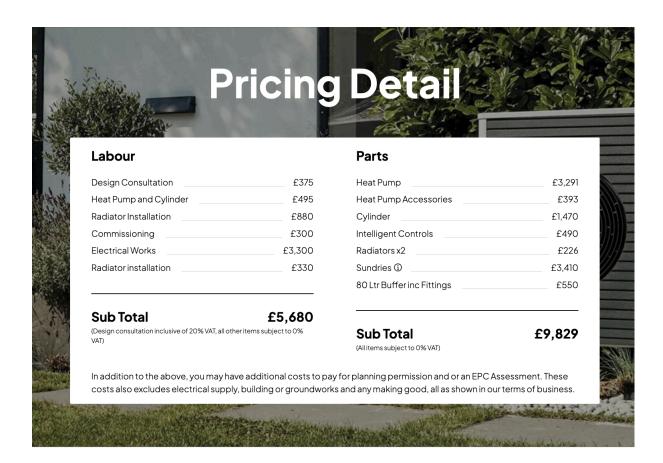
Heat Geek Guarantee

Learn more about the Heat Geek performance and installation quarantee.



Boiler Upgrade Scheme (BUS)

You're eligible for the Government \underline{BUS} . This allows us to pass on a £7,500 reduction in price to you. We'll do all the required applications on your behalf and you won't have to pay this money up front.



Payment Milestones

The price for the job is payable in three stages as the work progresses

Pay M	onthly	Pay in Full	
PAYMENT	CALCULATION	VALUE	STATUS
Design Consultation ⑦	-	£375	Completed on 30/12/2024
Deposit	-	£99	Pay
Monthly Payments*	(Remaining amount) (15 years x 12 months)	£90 per month	