



Your quote reference:
GW2268 Revision B

Your proposal was
completed by:
Uday Parekh
Sales Executive

This quotation is valid for 14
days from the date of issue.

Your bespoke **heat pump** proposal

Peter Willcox
50
Bedford Road
Letchworth Garden City
Hertfordshire
SG6 4DR

Draft Proposal – All the figures in this pack **are estimates**
and will be finalised in the next stage of the process.

Please be advised that the information we have
supplied in your bespoke heating proposal is subject to
change



● Your bespoke heating proposal



Designed around your home

Our green heating experts have worked with you to design a bespoke system based on your home and your needs.



Reducing your environmental impact

Your air source heat pump saves carbon emissions, making your home greener. You will receive an accurate figure of how much it saves once a Valid EPC is provided.



Giving you ultimate peace of mind

Our support won't finish when your install does. With unique remote monitoring and 10-year warranties, we'll be on hand to keep your heat pump in top condition.

Contents

System design

Your system and summary quotation

Proposed system layout

Heat loss assessment

Your radiators

Your property's energy performance

Sound test

Quote and contractual information

Quote and scope of works

Supplementary information

Manufacturer fact sheets

Click on an underlined section to skip straight to that page.



System design

● Your recommended system at a glance

Heating: 12kw Midea

- Fully integrated and controlled using a single system.
- Renewable energy output: 15,814.22 kWhrs.

Flow temperature: 55°C

This is calculated based on heating the room with the most significant heat loss to a comfortable temperature.



Hot water

We will install a new cylinder that is compatible with your heat pump. Your heat pump is expected to provide 85% of your hot water. An immersion heater will heat the remainder of your hot water, this will be installed as part of your new system.



Your Summary Quotation

Total cost of goods and installation:



Boiler Upgrade Scheme:



Design consultation – Onsite Survey



Amount payable under the Boiler Upgrade Scheme:

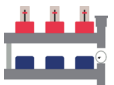


Your air source heat pump saves carbon emissions, making your home greener. You will receive an accurate figure of how much it saves once a valid EPC is provided.

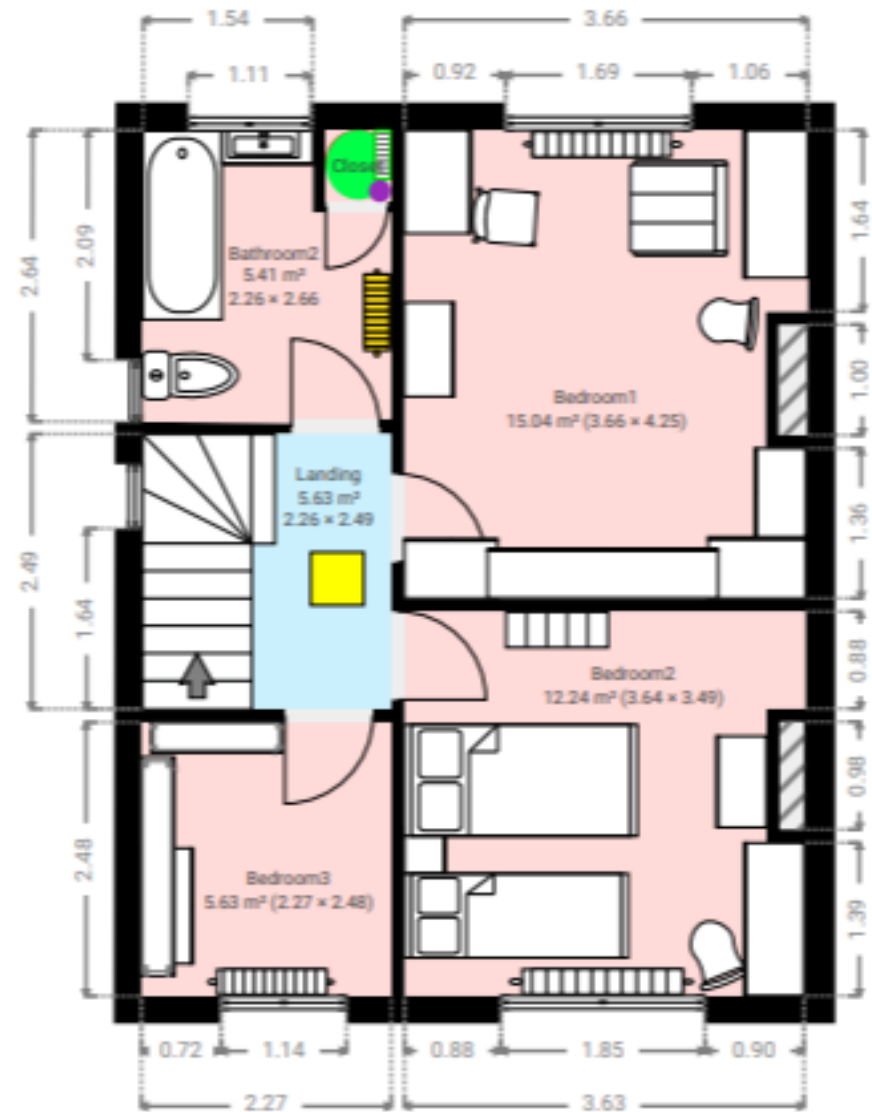
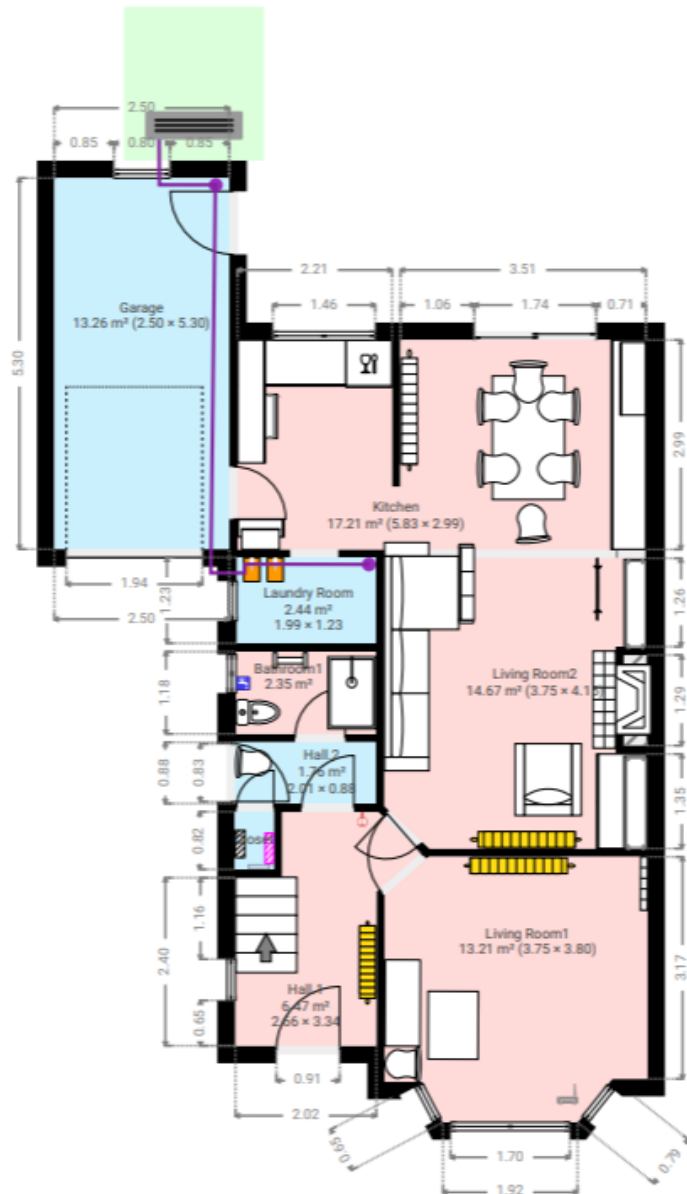
Proposed system layout

Over the next few pages, you will find a proposed layout for where your heat pump, the renewables consumer unit, pipe runs and wiring runs (if necessary) will be located.

Key:

	Heat Pump		Underfloor Heating Manifold		Replacement/Additional - Towel
	Boiler		Thermostat		Replacement/Additional -Radiator
	Existing Cylinder		Pipework - heat pump		Router
	New Cylinder		Pipework - cylinder		EV charger point
	Renewables Consumer Unit		Pipework - DHW cylinder		
	Fuse (internal/external)		Pipework - D2 discharge		
	Stop-tap				

Proposed system layout



Heat loss assessment

As part of your survey, we analysed how much heat each of your rooms loses, to work out the heat pump size and flow temperature required to comfortably heat your home.

Rooms	Total Heat Loss (W)	Heat Loss per metre (W/m ²)	Emitter Type
Hall.1	814.84	125.94	Radiators
Living Room1	1966.46	148.86	Radiators
Hall.2	199.27	112.58	0
Bathroom1	318.26	134.86	Radiators
Living Room2	1276.96	87.05	Radiators
Kitchen	1491.66	85.38	Radiators
Laundry Room	342.45	140.35	0
Landing	509.16	90.44	0
Bedroom3	683.1	121.33	Radiators
Bedroom2	727.29	59.42	Radiators
Bedroom1	789.7	52.5	Radiators
Bathroom2	942.3	174.18	Radiators

Heat pump Seasonal Coefficient of Performance (SCOP)



SCOP is a measure of how much useful energy the heat pump produces compared to the electricity the system uses to run.

At a flow temperature of 55°C, the SCOP is 3.34

For every 1kWh of electricity used to power your heat pump, 3.34kWh of heat will be transferred into your home .

This is an annual average – at some times of the year the SCOP will be higher, and at other times it will be lower.

Will you need supplementary heating?

Your system is designed to provide **99–100%** of your heating over the year. You may need to use an additional heating source e.g. an electric heater at limited times, if the external temperature drops below the MCS external design temperature for your area which is -2.2°C or when heating the building from a cold state, if your heat pump has been off for days or weeks at a time.

Your radiators

The table below lists the combined heat output of the radiators in each room, based on their type, width and height. Red indicates radiators that are too small for the design temperature.

We recommend replacing or installing additional radiators in these rooms to increase the heat output.

Room Name	Room Design Temperature (°C)	Total Room Heat Loss	Total Output at Flow °C	% Oversize	Height	Width	Type	Replacement/Additional	Qty
Hall.1	18	814.84	661.01 W	-19%	☒ 700	1200	K2	Replacement	1
Living Room1	21	1966.46	802.10 W	-59%	☒ 700	1600	K2	Replacement plus pipework	1
Hall.2	18	199.27	0.00 W	Unheated/UFH	☐				
Bathroom1	22	318.26	122.66 W	-61%	☐ None proposed as electric towel rail present				
Living Room2	21	1276.96	821.68 W	-36%	☒ 700	1600	P+	Replacement plus pipework	1
Kitchen	21	1491.66	1685.28 W	13%	☐				
Laundry Room	21	342.45	0.00 W	Unheated/UFH	☐ Accounted for by replacement Living room2 radiator				
Landing	18	509.16	0.00 W	Unheated/UFH	☐ Accounted for by replacement Hall1 radiator				
Bedroom3	18	683.10	641.44 W	-6%	☐				
Bedroom2	18	727.29	776.74 W	7%	☐				
Bedroom1	18	789.67	795.41 W	1%	☐				
Bathroom2	22	942.31	207.49 W	-78%	☒ 700	800	K2	Replacement plus pipework	1

Your property's energy performance

In line with the Microgeneration Certification Scheme (MCS) and Boiler Upgrade Scheme, you must have a valid Energy Performance Certificate (EPC). To be deemed as valid, your EPC must have been issued in the last 10 years

Your EPC shows that you have the appropriate amount of insulation, but it is over 10 years old. You must get a new EPC to be eligible for the Boiler Upgrade Scheme.

Sound test

As part of your survey, we discussed the best location for your air source heat pump in relation to other properties. For an air source heat pump to be allowed under permitted development, the unit cannot exceed a sound pressure of 42dBa.

From the information provided, we estimate your unit would reach a sound pressure of 40.6dBa. This means the sound test will sit within the permitted development.

(Please be aware planning permission may be required for other reasons if unsure please ask your sales executive)

The list below details the steps involved in your installation:

- System boilers to be removed
- Installation of 1x Midea 12kW Heat Pump
- To be floor mounted
- To drain to shingle (base pack)
- Removal of existing cylinder and Installation of Heat Pump cylinder in cupboard
- Installation of Tado smart thermostat in Hallway 1
- TRV to head to be removed from radiator
- Heat pump pipework: Through into Garage at low level, rise to high level in corner, through Garage and out to external at front of Garage, into Laundry room at high level, across into opposite corner, rise into cylinder cupboard.



Please confirm that you are happy with the advisory design notes shown on the covering email.

Working in your home

Labour time

Based on the above listed works, we estimate that the installation will take place over 6 days.



Your warranty

We offer the following hardware and workmanship warranties on our goods and installation:

 [Read the Workmanship warranty](#)

Your heat pump:
10-year Midea
product warranty

Your installation
2-year heat pump
workmanship warranty

If you move home

The workmanship warranty will be transferable to the new legal owner of the property if it is sold during the warranty period.



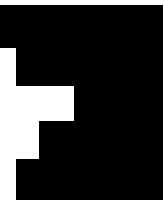
Your quotation

As this is a draft proposal, the following information on your quote and contract are for your information only.

Please contact our team to agree how you want to proceed with your installation.

Your quote

Cost breakdown

Description	Quantity	Unit Price	Total Price
Supply and installation of 12kw Midea R32 Air Source Heat Pump	1		
Supply and installation of 210L McDonald - Vented	1		
Supply and install of Monitoring	1		
Tado heating & hot water 1 zone	1		
Additional / Replacement Radiators	4		

Your quote

Your details

Name:

Peter Willcox

Project reference:

GW2268 Revision B

Quote issued by:

Uday Parekh

Date issued:

06/09/2024

Installation address:

50

Bedford Road

Letchworth Garden City

Hertfordshire

SG6 4DR

Cost totals

Description	Total Price
Total cost of goods & services	
VAT	
Total price of the system	
Boiler Upgrade Scheme grant	
Design consultation payment	

Total to pay



***Please note the quote is valid for 14 days from date of issue.**

Quotation – your payment terms

Your payment terms

Description	Total Price
Total amount	
Design consultation payment (paid at point of Design Consultation booking)	
Deposit stage payment (payable on confirmation of your order)	
Booking stage payment (payable to book installation date)	
Commissioning stage payment (payable on install completion)	

Deposit

A deposit of £5,000 or 25% of the total price of the System as set out in the quotation, whichever is lesser, (including VAT), is due on signing of the contract. A booking stage payment will be required to book your installation date.

In accordance with MCS guidelines, these two payments will not exceed 60% of the total installation price. Where the total amount payable is more than the 60% after the government grant there will be a final balance to pay, this is due upon final commissioning of the system.

Your deposit will be insured with HIES under their Deposit Protection Scheme so that you can get the work completed or your money back if we cannot deliver your equipment because we have gone out of business.

Anything unclear? Get in touch before proceeding to sign the contract:

 **0333 016 4500**

 **Heatpumps@goodenergy.co.uk**

 **good energy**

Supplementary information

This page has links to all the website that may be of use whilst going through this proposal

→ [View the Midea heat pump factsheet](#)

→ [Planning permission](#)

→ [Boiler Upgrade Scheme](#)

→ [Read more about the HIES consumer code](#)

→ [Data protection](#)

→ [View the UK Cylinder factsheet](#)

