



# Air Source Heat Pump Installation

Pilot project in private home

## Highlights

Air Source Heat Pumps (ASHPs) are an increasingly popular eco-friendly method of transferring and warming air from the outside to heat both inside space and water.

To a private residence we installed high-specification, high-efficiency Vaillant products including:

- 1 Vaillant aroTHERM plus 7kW Air Source Heat Pump (ASHP) with aroTHERM plus Sound Safe System for minimal noise
- 2 Vaillant uniSTOR 300 litre unvented hot water storage cylinder
- 3 Vaillant 45 litre buffer vessel to the underfloor heating system
- 4 Vaillant smart controls

The whole system efficiently converts outside air to usable energy to heat the water and the central heating system in the residence. It is electrically run, and Smart controls ensure a comfortable mean temperature for the home all year round as well as high-efficiency hot water.

## Benefits

- High energy efficiency
- Reduced energy bills
- Reduced carbon footprint
- Comfortable mean temperature all year round
- No gas in the property (no flues)





Our team re-sited the garden path to accommodate installing the ASHP outside the property; and despite the challenges of confined space under the stairs, we fitted the buffer vessel and most of the pipework here, upgrading the pipework to 35mm and 28mm.

As the system uses no gas at all, carbon emissions are greatly reduced and we are looking to install more similar energy efficient products as we and our clients work towards Net Zero.

## Air Source Heat Pump Installation accreditations

This pilot Air Source Heat Pump Installation project was used in our portfolio which gained us our Home Insulation & Energy Systems Quality Assured Contractors Scheme (HIES) accreditation for the installation of Air Source Heat Pumps.

Our team additionally underwent training through the Ideal Heating Expert Academy which qualifies them to install and work on Air Source Heat Pumps such as the ones used in this Case Study.



## Contact

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