

Making homes energy efficient

Air Source Heat Pump

A heat pump transfers thermal energy from a source point, the air outside, which can be extracted as low as -25°C . Once harvested, an electrical compressor enhances and converts it to usable heat to warm our homes and hot water.

What is an Air Source Heat pump?

IZ Energy is committed to making a positive impact on the environment by providing top-notch heat pump solutions tailored to meet the specific needs of homeowners.

How do Air Source Heat Pumps work?

Domestic air source heat pumps convert latent energy from the outside air into usable warmth for central heating and hot water.

Heat Pump

Your heat pump will be installed outside. A large fan will blow air over a series of small tubes at the back of the unit, thus extracting energy.

Hot Water Cylinder

A new hot water cylinder, compatible with the heat pump, will be fitted. Your air source heat pump will connect to this and produce the hot water you use.

Pipework

Depending on your existing heating system, the pipework may need to be partially or fully replaced to ensure it works correctly and efficiently.

Radiators

After the gathered energy converts to usable heat, slightly larger radiators may need to be installed as the heat pump works at lower flow temperatures.

Heating Your Home

The heat produced by your heat pump will be distributed around your home using pipework and radiators. Homes with a water-based heating system may require modification rather than a full new installation.





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What are the benefits of an Air Source Heat Pump?

Transitioning to a heat pump offers numerous advantages, including:

Renewable & Sustainable Energy

Heat pumps harness energy from outside air, an abundant and renewable energy source. While the outside air is above -25°C there will always be free energy to use.

Environmentally Friendly

ASHP are a clean energy source, with lower harmful emissions or greenhouse gases. With a heat pump, you help combat climate change and reduce your carbon footprint.

Reduced Electricity Bills

With a correctly designed system like we offer here at IZ Energy, it is possible to reduce your energy bills, saving you more in your pocket for the things that matter.

Low Maintenance Requirements

Once installed, heat pump systems have minimal maintenance requirements – just a yearly service for your warranty. They are less prone to issues or breakdowns.

We are committed to your satisfaction and are here to assist you every step of the way. Please contact us if you have any questions or require additional support.

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