

## Air Source Heat Pump

What is it and how does it work?

An air source heat pump is a low carbon technology. It acts as a central heating system and runs on electricity. Air source heat pumps extract heat from the air outside and transfer it into a wet central heating system using a low boiling temperature fluid.



### Benefits

- Provides heating and hot water.
- Reduces CO<sub>2</sub> emissions.
- Can be cheaper to run if replacing oil or very old heating systems
- Particularly effective in off-gas properties.
- Highly efficient technology in relation to the input and output of energy.
- Can work alongside solar panels to improve overall efficiency.

### Things to consider

- Requires a well-insulated property.
- Heat-loss calculation undertaken before installation to check feasibility.
- Likely to increase energy bills if replacing a gas central heating system.
- Difficult to guarantee bill savings in the current climate of energy price rises.
- Needs space for a hot water tank.
- Produces low-level noise.
- Unit needs an outside area close to the property.

### Funding Expectations with Action Surrey

**Funded:** Surveys, the unit, labour costs, electric commissioning, plumbing works, radiator upgrades, lodgement with Trustmark and MCS.

**Not funded:** Specific models will not necessarily be funded due to availability of supply and timescale of funding. Additional requirements should be discussed with the installer. More than one unit per household will not be funded.

Supported by:



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