

The benefits of

Air Source Heat Pumps

Heat your home with energy absorbed from the air around you



Costs and savings

Costs for installing a typical system suitable for a detached home range from about £6,000 to £10,000 including installation. Running costs will vary depending on a number of factors - including the size of your home and how well insulated it is.

| | | Air source heat pumps | |
|----------|-----------------------|---|--|
| | | Savings from typical performing system 220% | Savings from good performing system 300% |
| Gas | £/yr | -£130 | £70 |
| | kgCO ₂ /yr | -105 | 750 |
| Electric | £/yr | £330 | £530 |
| | kgCO ₂ /yr | 4,600 | 5,455 |
| Oil | £/yr | -£40 | £160 |
| | kgCO ₂ /yr | 700 | 1560 |
| Solid | £/yr | £175 | £370 |
| | kgCO ₂ /yr | 4,475 | 5,330 |

Air source heat pumps absorb heat from the outside air. This is usually used to heat radiators, underfloor heating systems, or warm air convectors and hot water in your home.

How do air source heat pumps work?

An air source heat pump extracts heat from the outside air in the same way that a fridge extracts heat from its inside. It can extract heat from the air even when the outside temperature is as low as minus 15°C.

Heat pumps have some impact on the environment as they need electricity to run, but the heat they extract from the ground, air, or water is constantly being renewed naturally.

Unlike gas or oil boilers, heat pumps deliver heat at lower temperatures over much longer periods. This means that during the winter they may need to be left on 24/7 to heat your home efficiently. It also means that radiators should never feel as hot to the touch as they would do when using a gas or oil boiler.

Help and advice

For more information on home energy generation technologies, contact your local Energy Saving Trust Advice Centre on Tel: 0800 512 012.

