

Air Source Heat Pump



Air source heat pumps are a very efficient way of providing heat for your hot water or heating system by extracting heat from the air outside and transferring it into a building. They work in a similar way to refrigerators, but in reverse. They are similar in appearance to air-conditioning units.

HOW DO AIR SOURCE HEAT PUMPS WORK?

An air source heat system absorbs low grade heat (not very warm) from the atmosphere and transfers it into high grade heat (hot air) to heat radiators, under floor heating and water systems. They are so efficient that they can continue to extract heat from the air in temperatures as low as -15°C.

HOW MUCH HEAT CAN BE GENERATED?

In general heat pumps are 400% efficient, producing 4kW of heat output for every 1kW of electricity used. This makes them ideal for properties which are not supplied by mains gas or rely on heating oil.

A well designed heat pump will provide all your heating and hot water requirements. It is essential that a design survey is carried out on your building to establish the heating requirements of the building and therefore the size of the heat pump required.

Futurum will undertake a property survey and recommend the most suitable unit for your needs.

WHERE CAN AIR SOURCE HEAT PUMPS BE FITTED?

An air source heat pump unit needs a location outside the property and can be fitted to a wall or placed on the ground. It needs plenty of space around it to get a good flow of air. A sunny wall is ideal.

WILL IT BE SUITABLE FOR MY PROPERTY?

Since air source heat pumps produce heat at a lower temperature than traditional boilers, it's essential that your property is well insulated and draught-proofed for it to be effective.

Generally air source heat pumps can replace your existing

heating system. This will depend on how well insulated your property is and for example, the type of existing radiators installed.

COST, SAVINGS & MAINTENANCE

Costs for installing a typical system suitable for a detached home range from about £4,000 to £8,000. Running costs will vary depending on factors such as the size of your property and how well insulated it is.

Savings will vary depending on how efficiently the system operates and what fuel you're replacing. You will still have to pay electricity bills to power the pump itself as well as your other electricity needs.

As well as the savings on your annual energy bills, heat pump installations benefit from the Renewable Heat Incentive (R.H.I.). This means that the government will pay you to generate your own heating and hot water.

Heat generating technologies will require an annual service and in some cases, this is an essential element of maintaining any Government incentive payment. Our team can provide you with this service - either as an integral part of a new installation or to support any existing technologies you may have.

ARE THERE ANY RESTRICTIONS TO THE RHI PAYMENTS?

To qualify for the RHI you must own the property or have approval from the owner. There may be other requirements, such as an acceptable level of insulation within the property. To receive these payments the system you install must be certified under the MSC (Microgeneration Certification Scheme) and the installer must also be MCS registered. You may also be required to ensure that the system is adequately maintained to continue to receive the RHI.

HOW CAN YOU BE SURE OF THE QUALITY OF THE INSTALLER AND PRODUCTS?

All Futurum installers are registered and where required certified under the Microgeneration Certification Scheme (MCS) and we are bound by the REAL Assurance Consumer Code which is your guarantee of best advice and high standards of service. Details of these requirements can be found at www.realassurance.org.uk

If you have any further questions or queries please contact the Futurum team on **01305 755700** or email us at sales@futurumltd.co.uk