



AIR SOURCE HEAT PUMPS

*“THE BEST THINGS IN LIFE ARE FREE
AND AIR IS FREE ENERGY”*

WHY CHOOSE AN AIR SOURCE HEAT PUMP?

They can provide heating and domestic hot water in a cost effective and sustainable way and are suitable for domestic and commercial installations. They provide fuel savings and reduce your carbon footprint.

HOW DO THEY WORK?

An air source heat pump will extract heat from the outside air in much the same way as a fridge extracts heat from inside its cabinet (a heat pump can still extract heat when the outside temperature is as low as minus 20 degrees Celsius).

This low grade heat is then converted into high grade heat which is used for space heating and hot water. Some pumps can also operate in reverse to provide comfort cooling during the summer months.

WHAT SIZE OR SPECIFICATION DO I NEED?

Air source heat pumps come in a variety of sizes and specifications so it is important that the installation is specified and designed for the clients' requirements to ensure the maximum effectiveness of the heating system, whether it be for a home, office or commercial installation.

By taking into consideration the type of insulation and other heating ancillaries the client already has the ASHP can be designed to ensure utmost efficiency and maximum savings on fuel bills. By completing a simple survey form a draft specification can be done.

The efficiency of an air source heat pump system is measured by a coefficient of performance (CoP) - the amount of heat they produce compared to the amount of electricity needed to run them. A typical CoP for an air source heat pump is around 3.5.

DO I NEED PLANNING PERMISSION OR TO APPLY FOR BUILDING REGULATIONS?

Building regulations are always required and in some cases planning approval may be required especially if the heat pump is on an elevation in view to the public. Local Authorities are sympathetic to reducing carbon emissions and would always look favourably on any application.

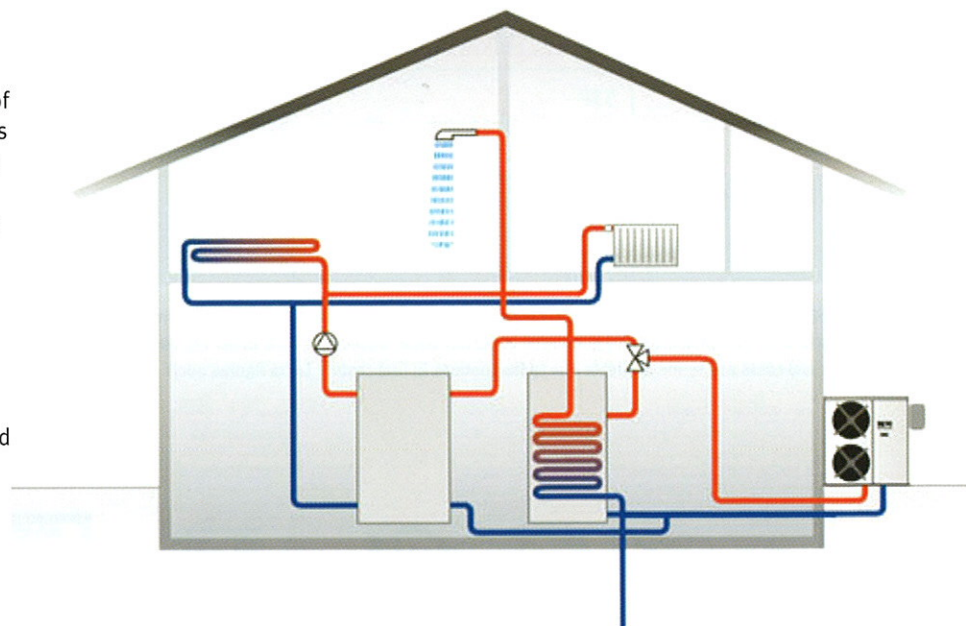
HOW MUCH IS IT GOING TO COST?

Please ask as prices are dependant upon the existing system, size and specification required. A simple survey will determine the type and size of pump required.

WHERE DOES IT GO?

You'll need a place outside your house where a unit can be fitted to a wall or placed on the ground. It will need plenty of space around it to get a good flow of air.

It is then connected up to your existing heating system or if you are carrying out a refurbishment project or a new build it can be designed to provide under floor heating. The unit is compact and requires no storage space for fuel.



CALL OUR CUSTOMER HELPLINE ON FREEPHONE 0500 127005

THE ENERGY CENTRE, SOLARWALL LTD, GREEN LANE TRADING ESTATE, CLIFTON, YORK YO30 5PY
TEL: 01904 690824 www.solarwall.co.uk Email: renewables@solarwall.co.uk



AIR SOURCE HEAT PUMPS



WHAT ARE THE BENEFITS?

- Reduce your fuel bills, ASHPs run on electricity so there is no need to pay for gas, oil or solid fuels to heat your property
- An ASHP is more efficient than using electric heating
- Low maintenance costs with an expected lifespan of up to 25 years
- A clean, sustainable and efficient way of providing heating and hot water
- If you add some other form of renewable energy generating system such as solar this will reduce your energy bills and your carbon footprint even further
- Reduces your dependency on imported fossil fuels e.g. gas, oil
- Will qualify for the RHI due in April 2011

RENEWABLE HEAT INCENTIVE

Pick up the leaflet on the RHI which comes into effect in April 2011. This government incentive is to bridge the financial gap between conventional and renewable heating systems and is available to MCS approved products and installers only.

INDICATIVE FUEL COST COMPARISON & CO₂ REDUCTIONS

FUEL TYPE	Cost comparison per 10kWH *	Potential reduction in CO ₂ emissions per year **
GAS	37p	34%
OIL	55p	55%
LPG	53p	40%
ELECTRIC	100p	
AIR SOURCE HEAT PUMP	29p	
GROUND SOURCE HEAT PUMP	26p	

*The performance of heat pumps are impossible to predict with certainty. Estimate based on the Governments' SAP and for guidance only. It should not be considered as a guarantee of performance. Based on a 85% boiler efficiency and may not be representative of actual costs and tariffs available due to fluctuations in fuel costs** Defra figures 2008



CALL OUR CUSTOMER HELPLINE ON FREEPHONE 0500 127005

THE ENERGY CENTRE, SOLARWALL LTD, GREEN LANE TRADING ESTATE, CLIFTON, YORK YO30 5PY

TEL: 01904 690824 www.solarwall.co.uk Email: renewables@solarwall.co.uk