



Department for
Business, Energy
& Industrial Strategy

Affordable warmth funding



Renewables



Making the most of your new air source heat pump

Air Source Heat Pump

Air source heat pumps take warmth from the air outside (even when it's freezing) and use it to heat the home. Heat pumps can take getting used to as they operate differently to other forms of heating. They are designed to heat to low temperatures over a long period of time, rather than quickly providing heat when turned on.

Keep the external unit clear of obstructions, otherwise the restricted air flow can increase running costs. The heat pump should heat your hot water tank to around 35-40°C. However this is not hot enough to kill any bacteria within the tank. Therefore the tank should be timed to heat up to 60°C once a week - you will notice a corresponding spike in your electricity usage.

When you don't want heat Heat pumps should NEVER be turned off completely. This is because they will be extremely expensive when turned back on as they will try to raise the temperature as quickly as possible. It can also take several days to restore the home to a comfortable temperature.

AT NIGHT: Lower the temperature to around 10-15°C, and then set it to slowly increase in the morning so that the room is a comfortable temperature when you wake up.

AWAY FOR A DAY: Just leave the system running as usual.

AWAY FOR A WEEK: The system's control panel should have a 'frost protection' or 'holiday' setting which will lower the room temperature while you're away. This will also prevent the pipes freezing in cold weather.

DURING THE SUMMER: Your heat pump might have a 'summer' mode, or you can simply turn down the room thermostat. This means the heating will not come on, but you will still get hot water. You can raise your thermostat temperature again slowly as autumn approaches.

If the heat pump turns off... If you have a power cut the heat pump will turn off. If the power is off for a long period the heat pump will need to warm itself up before it can heat your home again. Check your instructions as this may happen automatically or you may need to select a setting.

Air Source Pump



More information

For technical information see the Heat Pump Association www.heatpumps.org.uk



Low Cost Energy Savings

✓ Buying a new TV, washing machine or dishwasher? Look out for the energy efficiency rating, and go for A-rated or better.

✓ Get a hot water cylinder jacket. A thick insulating jacket can save around £50 on bills a year.

✓ Dodge the draught! Fit draught excluders to your windows, doors, letter box and key hole to keep the draughts out and save you £25 per year.

✓ Fit radiator reflector panels. These slot behind a radiator that's on an outside wall and reflect the heat back into the room.

✓ Replacing old style lightbulbs with LED and save £30 a year. Plus they don't need changing as frequently.

✓ Change your head. Fit a water efficient shower head and save £30 a year.

✓ Insulate your loft. A house loses 25% of heat through the roof. Loft insulation is a cheap way of saving money on your home and can be done yourself.



Draught Proofing Window



Changing to energy efficient light bulb



Loft Insulation