

Keeping people safe

Health and safety toolkit

Heat pumps

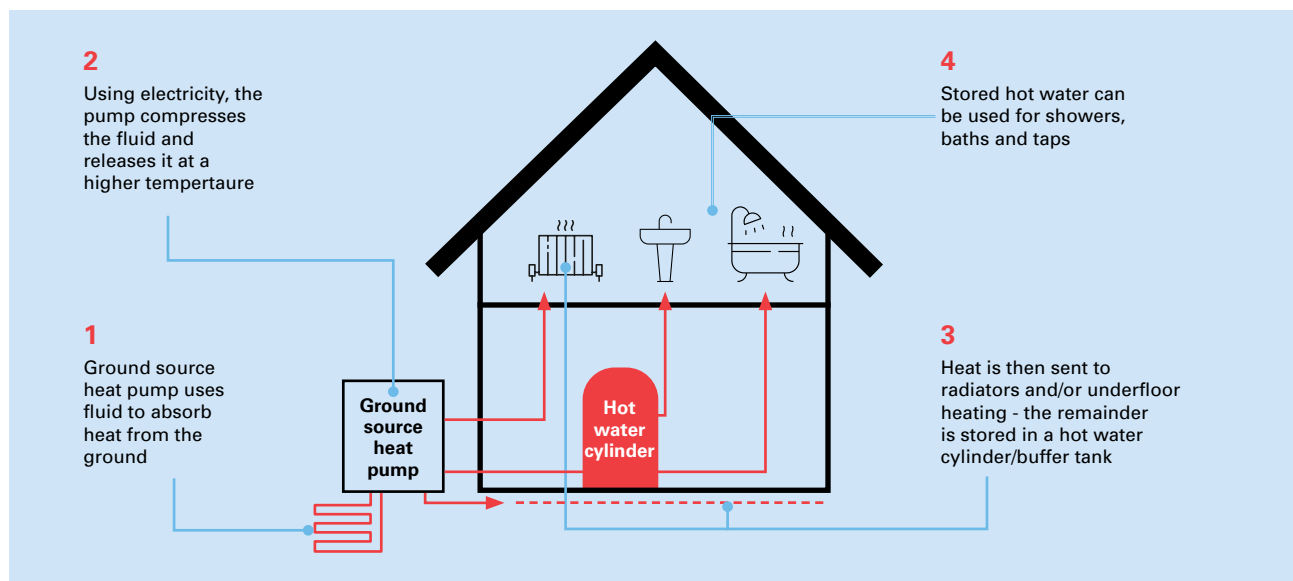


As renewable energy technology develops, heat pumps are increasingly viewed as a green alternative to traditional forms of energy.

This guidance highlights some of the risks associated with the installation and use of heat pumps and steps that should be considered to help manage these risks.

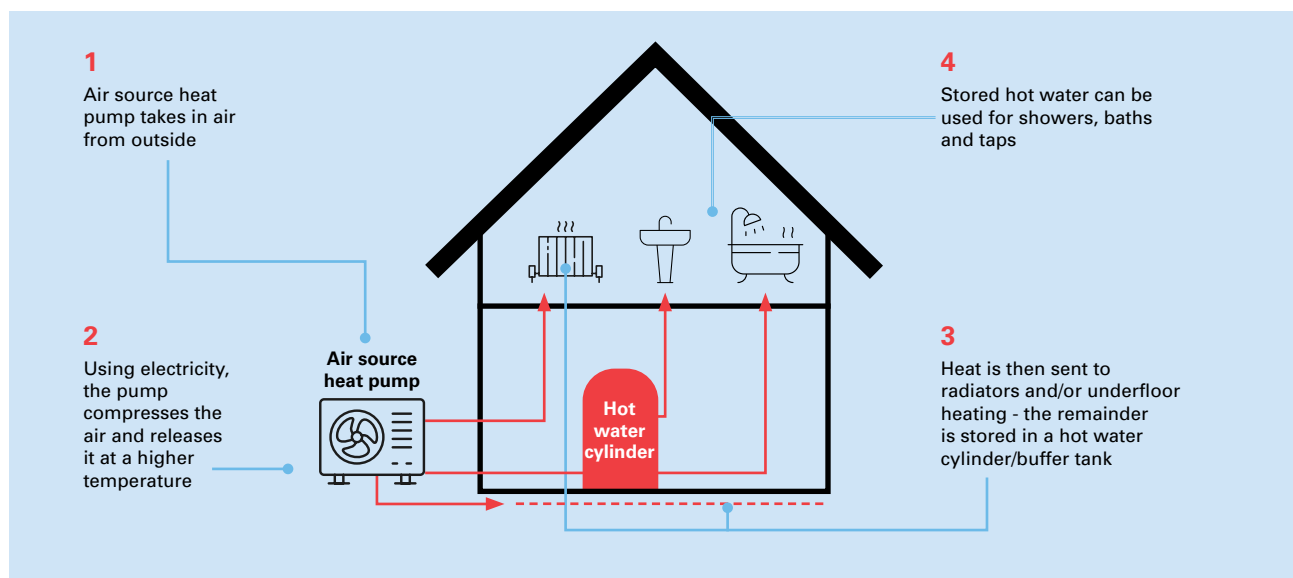
Ground source heat pumps

These use pipes which are buried outside to extract heat from the ground itself. This heat energy can then be used to power and heat radiators, under floor or warm air heating systems and hot water.



Air Source Heat Pumps

Also known as air to water heat pumps, work in a similar way except that they extract heat out of the outside air instead of the ground. This heat can then be used to heat radiators and under floor heating systems.



What you need to do

By adopting a sensible approach much can be done to ensure a heat pump works safely and efficiently to provide heat and hot water to your premises.

It is important to employ an expert to undertake a feasibility study. You should inform us that you are planning to install a heat pump at the earliest opportunity.

Our minimum expectation is set out below.

The installation

Installation of heat pumps should be conducted by an installer who is certified under the **Microgeneration Certification Scheme (MCS)**, which demonstrates that they comply with industry standards such as GHSPA etc. In addition to this, the installer should also be using MCS-certified products.

The installer should provide written details of any other maintenance checks that need to be undertaken as well as an emergency guide. In the event of a pressure drop (indicating a possible leak), there should be a simple plan of action including contact numbers for the installer.

Maintenance

It is advisable to consult with the supplier for exact maintenance requirements before committing to installing a heat pump.

Regular self-inspection and a more detailed service/maintenance check by a professional installer annually is recommended. If a service is not undertaken this can lead to inefficient operation, increased running costs and possible equipment failure. All plant and equipment must be inspected, serviced/maintained as per the manufacturer's recommendations.

Self-inspection may include checks of the water pump, external pipes and fittings and electronics or checking that the air inlet grill and evaporator are free from leaves or other debris; removal of any vegetation/debris near the heat pump etc.

Areas associated with the heat pump equipment, including any heat exchanger etc. should be swept out and cleaned down at least weekly and all combustible waste removed.

You may be advised by the installer to check the central heating pressure gauge from time to time. If so, you should be shown how to do this. Also, isolation switches should be clearly labelled and located in an accessible position if possible.

It is recommended all work should be undertaken by an approved and qualified engineer e.g. HETAS or MCS approved installers.

Reducing the fire risk

Few fire risks have been identified.

There will be a requirement to meet the legislative requirements of the Regulatory Reform (Fire Safety) Order 2005 where systems are being used in a workplace. Fire and general risk assessments completed for a workplace must include the hazards related to this equipment and precautions to ensure people are protected.

Relevant training (including refresher training) must be provided to staff and any volunteers operating in a workplace about the hazards and precautions required when using this equipment. It is important employers keep records of this training for future reference.

Helpful Information

https://www.gshp.org.uk/GSHP_Standards.html

https://www.gshp.org.uk/pdf/EA_GSHC_Good_Practice_Guide.pdf

<https://mcscertified.com/>

<https://acrib.org.uk/>

<https://energysavingtrust.org.uk/>



Want to know more?

We have produced some other useful resources to help you get started or simply check the adequacy of what you have already done. These are all available at:

www.methodistinsurance.co.uk/healthandsafety

Note: if you are in Ireland, Northern Ireland, Jersey, Guernsey or the Isle of Man then regional variations might apply. In this instance, you should check the guidance provided by the enforcing authority for your region. This will be freely available on their website.

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Need to contact us?

For further information on health and safety in churches:

Call our Risk Management Advice Line on

0345 600 7531

Monday to Friday, 9am to 5pm (excluding Bank Holidays).

We may monitor or record calls to improve our service.

Email us at: risk.advice@micmail.com



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