

BAXI

GEOFLO™

Ground source heat pump systems



Innovators in heating technology

For over 150 years, Baxi has led the way with new and pioneering heating solutions. We are proud that we still manufacture boilers in the UK, close to the site where Richard Baxendale first established the business, in Preston, Lancashire.

Today, our dedication to innovation is greater than ever as we develop new ways to heat homes. We are committed to delivering sustainable heating and hot water solutions that minimise energy usage, cut carbon emissions and deliver maximum value for you and your customers.

Above all, we want to be at the heart of the home, bring warmth to people's lives and protect the planet for future generations.

Here are just some of the many heating solutions we offer that can be tailored to suit your needs:

- High efficiency boilers
- Solar energy
- Ground source heat pumps
- Micro-CHP technology
- Biomass solutions
- Vented and unvented cylinders
- Flue gas heat recovery systems

All our products are backed by heateam, our award-winning dedicated UK service centre and a national network of 270 Gas Safe registered engineers, who are on hand to offer expert help and advice.

What is Geoflo?

Baxi Geoflo is a ground source heat pump which makes use of energy stored within the earth to produce sustainable heating for the home.

Which properties are suitable for installation?

Ground source heat pumps are particularly suitable for well insulated off mains gas properties that have enough land to accommodate ground arrays or have outside areas suitable for bore holes.

These include:

- All new build and renovated buildings ranging from small houses, flats and apartments to schools, offices and spaces where low temperature heating is required (e.g. underfloor heating)
- Older buildings undergoing building fabric renovation requiring a new heating system
- Ideal replacement for direct electric heating such as storage heaters or oil fired heating systems in well insulated dwellings
- The heat pump is best suited to be installed on a ground floor and on an external wall (in a utility room or garage)





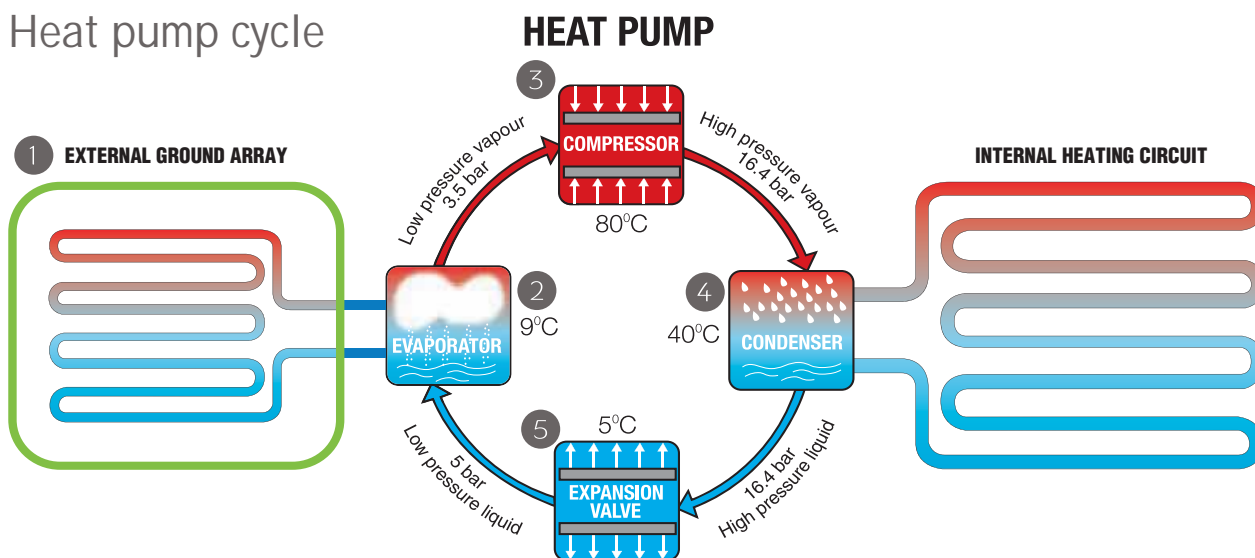
Features and benefits

- Compact design - takes up minimal space in the home and is suitable for a range of property sizes
- Plug and play installation for simple and quick connection
- Pack includes ground array matched to the heat pump output to simplify specification
- Durable and reliable with a design life of 25 years and no annual service requirements reducing life time ownership costs
- Reduced running costs - heating bills can be reduced by up to 70%* over alternative fuel sources
- Maximum efficiency and reduced running costs when installed with an underfloor heating system
- MCS certified
- A variety of outputs up to 25kW available

How does it work?

Baxi Geoflo recovers low grade heat stored in the ground, at a depth of around two metres using buried pipework known as a ground array or a bore hole. This heat passes through the heat pump and is circulated into the heating system at a higher temperature. Just as a refrigerator extracts heat from food and expels it, Baxi Geoflo extracts heat from the ground which remains constant at around 10°C all year round, compresses it to raise the temperature and transfers it into the heating system.

Heat pump cycle



- 1 External ground array - provides the primary heat source from the earth (slinky or boreholes)
- 2 Evaporator - transfers heat from the ground array, initiating the refrigeration cycle
- 3 Compressor - compresses the refrigerant gas to increase the pressure and temperature of the gas within the unit
- 4 Condenser - transfers the heat from the refrigerant gas into the heating circuit (underfloor heating or low temperature radiators) and condenses the gas back into a liquid
- 5 Expansion valve - the liquid refrigerant passes through the expansion valve reducing its pressure before repeating the cycle

*Based on comparison with direct electric heating in a 15kW heat load dwelling



Contact us

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