BAXI

Geoflo™

Ground Source Heat Pump Systems

Heat. Baxi has been passionate about it since 1866. Since then we've seen a lot of changes. Changes that have led us to constantly adapt, rethink and innovate. All to simply add warmth to people's homes and lives. Now more than ever, there's a need for energy efficient heating solutions. So we've put our energy into developing renewable energy systems – such as the Baxi Geoflo™

Doing our bit to make a huge difference.

Climate change, caused predominantly by carbon emissions, is something we all need to address. The Government operates the Low Carbon Building Programme (LCBP) and is introducing a Carbon Emission Reduction Target (CERT), with the aim of driving low carbon and highly efficient technologies into areas such as social housing and new build. It's pretty serious stuff, and rightly so.

Renewable energy has a strong part to play, and Baxi's Geoflo™ is a cutting edge heat pump system backed by 150 years of continuous development of heating technology. It has strong environmental credentials, in that it reduces CO_2 emissions, fuel bills, and most importantly, impact on the environment.

Ground Source Heat Pumps transfer stored thermal energy from the earth into water heating systems cleanly, efficiently and renewably.

The Baxi Geoflo™ Ground Source Heat Pump works by drawing latent heat from the earth via heat collectors which are buried in the ground. This heat is transferred into water heating systems where it is then ready to use.

The fact that the temperature stays stable below a certain depth in the ground is the reason why Baxi Geoflo™ Ground Source Heat Pump Systems can supply heat consistently. For this reason, they're well suited to the UK climate.

The benefits of Baxi Geoflo™

- Less impact on the environment through reduced CO_2 emissions
- Compatible with solar technology
- No formal installer training required
- National technical support and after-sales service from a single source
- No annual service required, offering reduced maintenance cost
- Incorporates scroll compressor with high efficiency and compression ratio which leads to good economic and carbon savings

A ground source heat pump system you'll warm to.

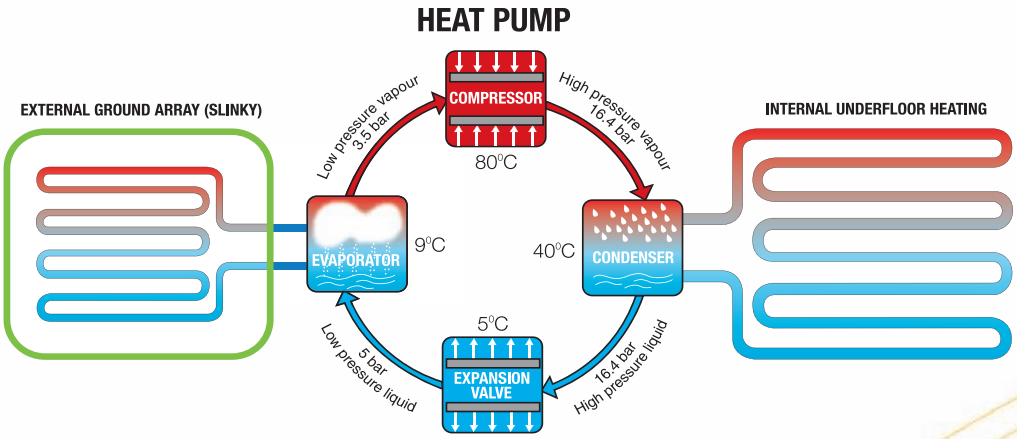
Although based on new technology, our Ground Source Heat Pump systems are tried, tested and proven. They're easy to install and maintain, and as a reliable long-term heating solution, they really do tick all the boxes.

Behind the exterior of the Baxi Geoflo™ system are four main components: the compressor, expansion valve and two heat exchangers (the evaporator and the condenser). The working fluid contained in the evaporator is kept slightly cooler than the heat source so that the liquid will draw the heat from the earth. It is this heat transfer that drives the system, as shown in the diagram below.

Best suited to well insulated properties with under-floor heating, the Baxi Geoflo™ range consists of 7 single phase models - from 4kW right up to 20kW. It is the widest range on the market and is supported by a national technical support and after-sales service team who'll help you choose the right system for the application.

Building size thermal output required:

- 80m² 4kW
- 120m² 6kW
- 160m² 8kW
- 200m² 10kW



The Baxi Geoflo™ system – always full of energy.

Boilers are ultimately assessed by their efficiency to turn fuel into heat. While HE condensing boilers typically rate at 90% efficiency, Ground Source Heat Pumps are given a Co-efficient of Performance (COP) rating, which is in the range of 2.5 and 4 and equivalent to 250% - 400% in boiler efficiency terms. The Baxi Geoflo™ is therefore capable of producing four times more energy than it consumes in its operation.

Several grant schemes exist that recognise the benefits our range has to the environment. So now there's even more incentive to make the most of the Baxi Geoflo™ range. For more details of these schemes, simply call our technical helpline on 0870 604 9049 and we'll be more than happy to help.

Inside your Baxi Geoflo™ package you'll find:

- A Ground Source Heat Pump controller
- Slinky coils
- Slinky manifold
- Antifreeze
- Complete installation and operation instructions

Single phase 230v versions are available in capacities ranging from 4kW to 20kW.

Technical specifications

Single Phase – 230 Volts AC	Code
Baxi 4 kW Geoflo™ System	5119486
Baxi 6 kW Geoflo™ System	5119487
Baxi 8 kW Geoflo™ System	5119488
Baxi 10 kW Geoflo™ System	5119489
Baxi 12 kW Geoflo™ System	5119490
Baxi 16 kW Geoflo™ System	5119491
Baxi 20 kW Geoflo™ System	5119492

Single Phase – 230 Volts; 50 Hz							
Thermal Output (kW) Building Size(m^2)	4 80	6 120	8 160	10 200	12 240	16 320	20 400
Compressors	single	single	single	single	twin	twin	twin
Slinky (quantity)	1	2	2	2	3	4	4
Slinky (length)	40	30	40	50	40	40	50
Antifreeze (25 litre)	1	2	2	3	4	4	5
Power Input	1	1.5	2	2.5	4	4	5
COP 0/55°C	3	3	3	3	3	3	3
COP 0/35°C	4	4	4	4	4	4	4
Power Supply Rating (amps)	16	25	25	25	25	40	50
Max Running Current (amps)	11	14	19	24	28	38	47
Typical Running Current (amps)	4	6	8	10	12	20	24
Typical Starting Current (amps)*	30	50	65	85	54	73	95
Power Supply Size (mm)	2.5	2.5	2.5	2.5	2.5	4	6
Dry Weight (kg)	85	90	95	100	165	167	170
Dimensions (HxWxD)	900x 550x570	900x 550x570	900x 550x570	900x 550x570	900x 900x570	900x 900x570	900x 900x570
Connection Size	28	28	28	28	28	50	50

* Soft start option is available to reduce currents.

Contact us

For technical advice

0870 604 9049

Open Monday - Friday, 8am - 6pm, Saturday, 8.30am - 2pm
Weekends & Bank Holidays, 8.30am - 2pm

To book a training course

0845 600 7402

Open Monday - Friday, 8am - 5pm

To request product literature

0870 606 0623

Open Monday - Friday, 8am - 5pm

To arrange an engineer visit

0870 060 3261

Open Monday - Friday, 8am - 6pm, Weekends and Bank Holidays, 8.30am - 2pm
We are closed on Christmas Day and New Years Day

Please note calls to our contact centre may be recorded or monitored.

BAXI

"Baxi" supports benchmark
The code of practice for the installation, commissioning & servicing of central heating systems

BSI REGISTERED FIRM
FM35908
BSEN ISO 9001
QUALITY MANAGEMENT SYSTEMS STANDARD

WRAS APPROVED PRODUCT

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B/Geoflo/I/Sept07/V1