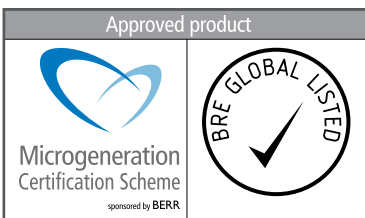




Heat King

Heating that doesn't cost the earth

Helping you to comply with the Code for Sustainable Homes



What are heat pumps?

Heat pumps are electrically powered appliances consisting of a compressor and two carefully matched heat exchangers. They are designed to provide space heating through water systems, either radiators or underfloor, by extracting from a free, renewable energy source such as the earth, water or air.

The earth, water and air will absorb and store heat from the sun and from the earth's core. In the UK the average constant temperature of the earth at about 1.5m deep is 11 to 12°C. A similar situation exists with underground water sources or large-surface water sources. It is also possible to extract considerable heat from the ambient air at temperatures as low as -20°C.

Heat pumps are a very cost effective means of providing space heating and pre-heating domestic hot water. The high efficiency of the units means that the output heat energy can be up to five times the electrical input power, something not possible with other methods of heating.



“Heat pumps are a very cost effective means of providing space heating...something not possible with other methods of heating.”



How does an air source heat pump work?

Heat pumps use similar technology to that employed in domestic refrigerators or freezers, but in reverse. An air source heat pump works by extracting low-grade heat from the air outside but where a refrigerator rejects heat from the contents to keep it cool, a heat pump will use it to heat water and provide heating.

Why choose a BWarm air source heat pump?

The HeatKing BWarm units, now Microgeneration Certified, use the latest technological advances in both compressor design and system control. This allows the units to provide much needed heat more efficiently than most other forms of heating. With rising fuel costs and the restricted availability of fuels in some areas, authorities and domestic users alike are being forced to look towards alternatives and BWarm is ideal.

The running cost of an air source heat pump is much lower than a conventional electrical heating system as the householder only pays for running the compressor and fan and the majority of the energy supplied to the house is renewable and free. Heat pumps also give a long trouble-free life with very low maintenance costs. The expected life of a BWarm heat pump is 20 years – much higher than an oil or gas boiler.

Why choose a BCool2 air source heat pump?

The HeatKing BCool2 heat pump has the same benefits of a BWarm unit yet with an added cooling facility. This enables a home to have both heating and comfort cooling that is eco-friendly, energy-efficient, low cost and uses renewable energy.

Why choose a BWarm i air source heat pump?

The HeatKing BWarm i range delivers the same benefits as the BWarm units but with the added advantage of a water supply temperature of up to 65°C.

Carbon emissions

Carbon emissions are an ever-increasing concern to global warming but the HeatKing air source heat pumps can save in excess of five tonnes of carbon per year compared to other forms of heating. In addition the HeatKing units can help you to comply with the Code for Sustainable Homes. The heat pump will produce up to 50 per cent less carbon than a modern gas boiler and up to 70 per cent less than an all-electric system, taking into account the inefficiency of power stations and losses in the delivery of electricity.

The HeatKing range of heat pump units addresses the issue of carbon emissions head on, utilising renewable energy to provide heat for domestic space heating and hot water. By extracting energy from the air around us the heat pump is able to achieve a COP (co-efficient of performance – the ratio of energy output to energy input) of up to five. As a result these units provide effective heating with minimal carbon emissions.

Microgeneration Certification Scheme

The Microgeneration Certification Scheme is an independent scheme run for the UK Government to certify microgeneration products and services which also opens the door to grants. The scheme demands high and consistent standards and all HeatKing Air Source Heat Pump models now have this accreditation.

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SPECIFICATION	BWarm/BCool2	BWarm/BCool2	BWarm/BCool2	BWarm i/BCool2 i	BWarm i/BCool2 i
	6000	8000	12000	9000 i	13000 i
Height (inc. feet)	681mm	780mm	780mm	780mm	780mm
Width	1020mm	1274mm	1396mm	1274mm	1396mm
Depth (inc. fan)	312mm	340mm	374mm	340mm	374mm
Weight	87kg	110kg	175kg	117kg	183kg
Heating output	6kW	8kW	12kW	9kW	13kW
COP	up to 5.0				
Power Supply	230V/1ph/50Hz or 400V/3ph/50Hz				
Water connector size	22mm				
Minimum ambient temperature	-20°C				
Maximum ambient temperature	45°C				

BWarm 6000, 8000 and 12000

- Heating only with up to 55°C water flow temperature
- Nominal 6kW output (6000), 8kW output (8000), 12kW output (12000)

BCool2 6000, 8000 and 12000

- Heating optimised up to 55°C water flow temperature with cooling facility
- Nominal 6kW output (6000), 8kW output (8000), 12kW output (12000)

BWarm i & BCool2 i 9000i and 13000i

- Heating with up to 65°C water flow temperature, BCool2 Units with cooling facility
- Nominal 9kW output (9000i) and 13kW output (13000i)

Benefits of Air Source Heat Pump Units

- Heating optimised
- Up to 5.0 COP (Coefficient of Performance)
- Microgeneration Certification (all units)
- Low energy costs
- Provides high CO₂ emissions savings
- Renewable energy
- Low capital cost
- Easily installed
- Flexible siting
- Operates down to -20°C
- Microprocessor control
- Latest compressor technology
- Incorporates circulating pump
- Design service available



Who is HeatKing?

The HeatKing Division of TEV Limited was formed in 2004 to provide energy-efficient products for the domestic heating market.

Its domestic air-source heat pump units are now available in three ranges. The BWarm range is suitable for heating and domestic hot water pre-heating, the BCool2 range provides heating, cooling and pre-heating of domestic hot water and both ranges are able to provide water flow temperatures up to 55°C. The BWarm i and the BCool2 i ranges are suitable for heating and domestic hot water pre-heating (with a cooling facility for the BCool2 range) at a water flow temperature of up to 65°C. Exploiting new compressor technology and the latest software and microprocessor advances, the units are energy efficient, eco-friendly and cost-effective. All Air Source Heat Pump models now have Microgeneration Certification.

Here at HeatKing, it is our mission to continually develop and deliver affordable, energy-efficient and eco-friendly heating solutions for public and private sector housing.

HeatKing is a division of TEV Ltd, the UK's leading designer and manufacturer of packaged air conditioning equipment.



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