



Heat King

Heating that doesn't cost the earth

Helping you to comply with the Code for Sustainable Homes



“Tackling fuel poverty and reducing carbon two of the most important concerns for homeowners and tenants and landlords today...”

Fuel Poverty is defined as a household who spends more than 10% of it's income on heating the home and it is estimated that over 2 million households in the UK are in fuel poverty and struggle to maintain adequate heating for their homes.

Carbon emissions are an equally high concern as each year the UK produces 40 million tonnes of carbon, 27% of which is generated within homes in the form of space heating and the delivery of hot water.

The HeatKing Solution is to not simply tackle one aspect but to recognise that a long term strategy and a tailored approach addressing both these issues is needed to create comfortable and eco-friendly homes for the future in the UK.

HeatKing Air Source Heat Pumps combat both issues. Fuel poverty (due to increasingly high fuel costs) and carbon emissions are both tackled by combining the most up to date technology with natural sustainable resources to deliver an energy efficient heating system that doesn't cost the earth!



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 an air source heat pump?

Air Source Heat Pumps deliver low running costs, low carbon emissions and use the earth's natural renewable energy. Because the householder only pays for operating the compressor and fan the running cost is much lower than a conventional electrical heating or oil system. Air source heat pumps can save in excess of five tonnes of carbon per year compared to other forms of heating as the majority of energy is renewable and free. Heat pumps also give a long trouble-free life with low maintenance costs.

Why choose a BWarm air source heat pump?

The HeatKing BWarm Range uses 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 because for a 1kW of electricity used the HeatKing heat pump can generate up to 5kW of energy. The expected life of a BWarm heat pump is 20 years – much higher than an oil or gas boiler and the units are easily maintained and able to be installed outside a property providing easy access. The HeatKing BWarm i Range delivers the same benefits as the BWarm units but with an increased water supply temperature of up to 65°C. This higher water flow temperature enables the unit to be fully integrated with traditional radiators.

Reducing fuel costs

Fuel Poverty is a very real concern for many households in the UK. 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 to provide affordable heating systems. HeatKing heat pump systems can deliver significant savings of up to 70% compared to oil boilers and electric heating systems.

Lower 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 unit can help you to comply with the Code for Sustainable Homes. The heat pump will produce 50 per cent less carbon than a modern gas boiler and around 70 per cent less than an all-electric system, taking into account the inefficiency of power stations and losses in the delivery of electricity.

Energy Efficiency

Energy efficiency is measured by the percentage of energy generated by the heating system used. Whilst modern gas and oil boilers operate at approximately 91% efficiency, the HeatKing Air Source Heat Pump can operate at up to 500% efficiency or up to 5 COP (Coefficient of Performance).

Ground source heat pumps

Ground source heat pumps (GSHPs) use the same technology as air source heat pumps whilst using the ground as their heat source. Heatking will be introducing a range of GSHPs in early 2009. Please see our Ground Source Heat Pump brochure for details.

Carbon emissions are
a concern for home-owners,



SPECIFICATION	BWarm/BCool2 6000	BWarm/BCool2 8000	BWarm/BCool2 12000	BWarm i/BCool2 i 9000 i	BWarm i/BCool2 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)
- 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.

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.



Armytage Road, Brighouse, West Yorkshire, UK HD6 1QF
Telephone +44 (0)1484 405605 sales@heatking.co.uk www.heatking.co.uk

