

Dedicated to your customers' comfort

WORCESTER



Worcester Greenstar series –
CORGI Award winner
2005, 2006 and 2007



Greenskies solar water heating
series – CORGI Energy Efficient
Product of the Year 2007

 **WORCESTER**
Bosch Group

“At Worcester we recognise the vital role you, our customer, has in the specification and installation of ‘A’ rated, energy efficient appliances in homes across the UK. We will continue to invest in our products, people, facilities and added value services such as training to give you the support you require in providing a total solution for your customers’ comfort.”

Richard Soper,
Managing Director,
Worcester, Bosch Group



Worcester, Bosch Group headquarters

Worcester and you – making a difference

Working together for many years, heating professionals and Worcester have been making a real difference in hundreds of thousands of homes across the UK. We are recognised as a market leader in high efficiency, condensing boiler technology and are also committed to providing renewable energy solutions.

We’re a leading British company, employing more than 2,000 people at our headquarters and manufacturing plants in Worcester and at Clay Cross in Derbyshire, including a nationwide network of over 300 Service Engineers and over 60 technically-trained field Sales Managers.

As part of Europe’s largest supplier of heating products, Bosch Thermotechnology has the UK-based resources and support capability to offer you the value-added solutions we feel you deserve.

As part of the Bosch Group, our products are designed and manufactured to provide the high levels of quality and reliability which are synonymous with the Bosch name throughout the world.



BOSCH
Invented for life



Greenstar
gas-fired boilers



Greenstar
oil-fired boilers



Greenskies solar water heating
panels and cylinders

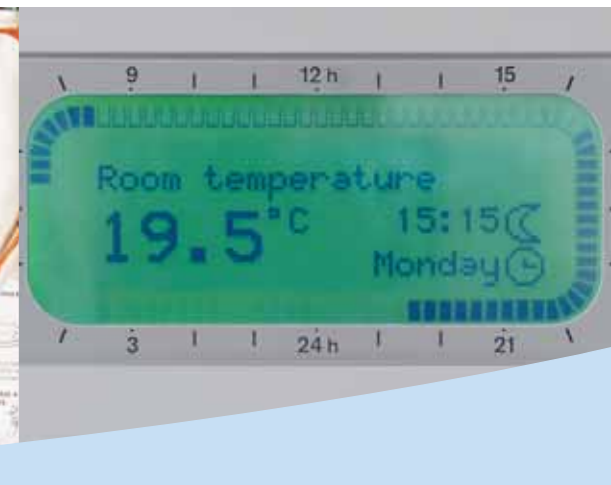


Greenstore ground
source heat pumps

Saving energy – cutting your customers' energy bills

Becoming more efficient in the way we use energy clearly makes sense. In keeping with the Bosch tradition for excellence, we decided at an early stage to concentrate our efforts on designing and manufacturing only 'A'-rated Greenstar condensing boilers, the highest in boiler efficiencies.

As well as helping to reduce energy consumption for our customers today, we can offer them increasingly energy efficient options for heating and hot water. With the inevitable rise in energy costs in the years ahead, this can only be to their advantage.



Products are put through their paces in one of the test rooms at Worcester's HQ. These 'longevity' tests are based upon automotive quality standards where appliances undergo accelerated life expectancy tests.



Why we only manufacture 'A' rated Greenstar appliances

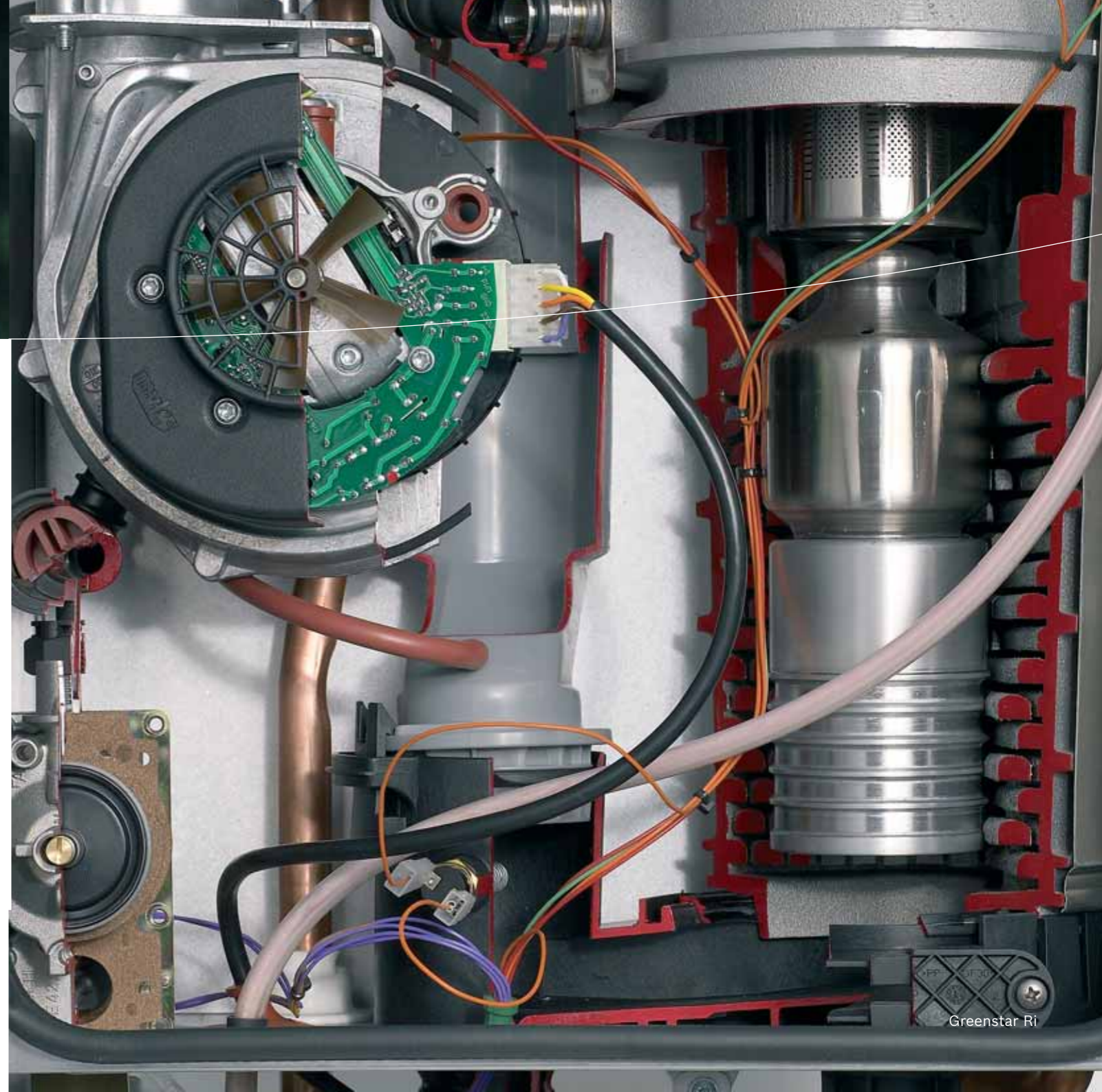
You will be aware of the popularity of our award-winning Greenstar range. But just how efficient is it?

Every Worcester Greenstar boiler is rated in the highest possible category – SEDBUK Band 'A'. That's at least 90% efficient, which means less natural gas, LPG or oil is wasted.

Natural gas, oil and LPG costs have risen dramatically over the last 3 years, some by as much as 80%! So the benefits of installing 'A' rated appliances rather than less efficient 'B' rated boilers is even more important to your customers.

Band	SEDBUK Range
A	90% and above
B	86% – 90%
C	82% – 86%
D	78% – 82%
E	74% – 78%
F	70% – 74%
G	Below 70%

All Greenstar condensing boilers are 'A' rated for their efficiency



Ecology through technology

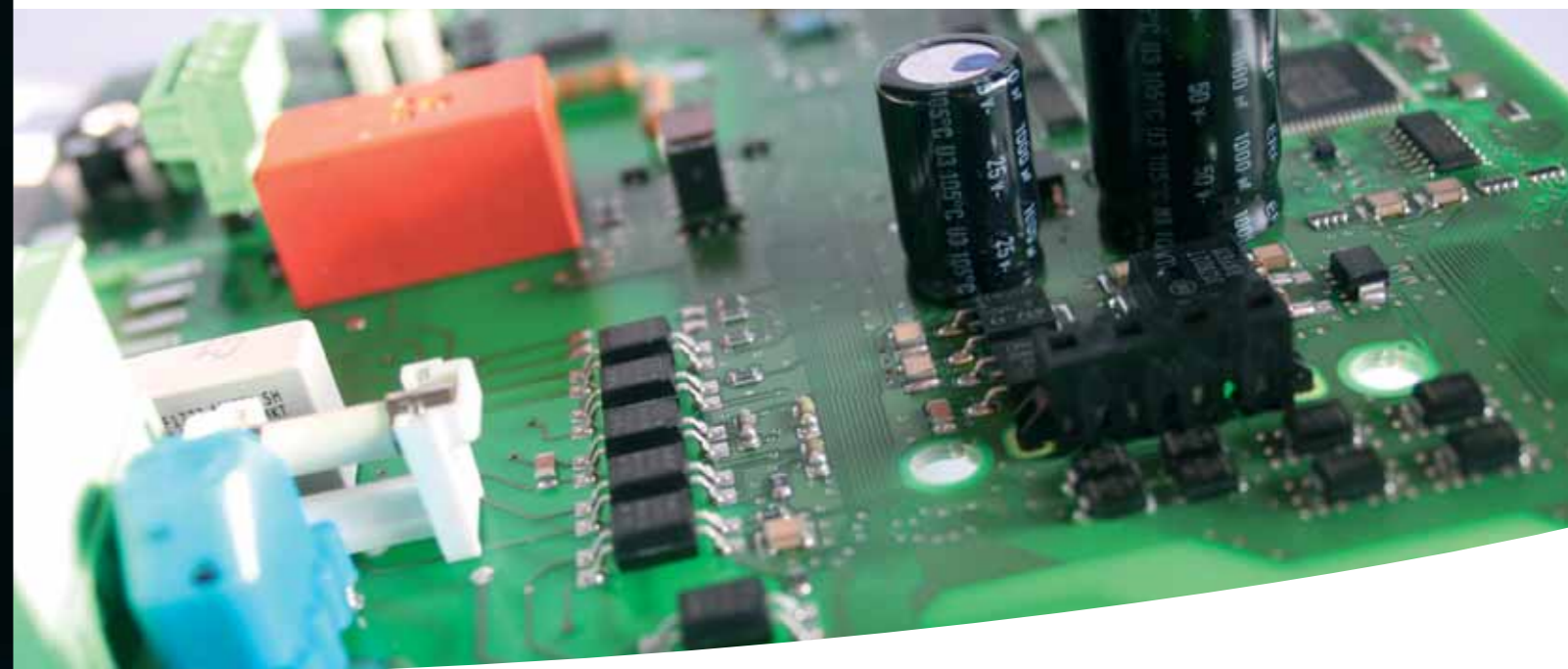
Every Greenstar high-efficiency natural gas and LPG-fired boiler has one of two well-proven, technologically advanced heat exchangers at its heart. The secret to the high efficiency levels we are able to achieve starts here. The WB3 and WB5 heat exchangers are made of cast aluminium/silicon, single-piece construction built to withstand the naturally occurring corrosive elements of the condensing process and deliver exacting standards of energy efficiency. All Greenstar boilers offer the added re-assurance of a 10 year warranty* on the primary heat

exchanger of gas- and LPG-fired models, with a 5 year warranty* on oil-fired appliances.

Behind every single operation the Greenstar makes is the proven reliability of the Bosch Heatronic control system. This microprocessor-based circuit board controls a number of vital functions including electronic ignition, anti-cycling, pump seizure protection and fault finding diagnostics.



Inside the WB3 heatcell – which comes with the re-assurance of a 10 year warranty*



**Terms and conditions apply – visit our website for details*

The Greenstar range of natural gas, LPG and oil-fired condensing boilers



The Greenstar range offers three types of natural gas, LPG and oil-fired condensing boilers – Combi, Regular and System.

Each boiler delivers the benefits you would expect from high-efficiency Greenstar technology. There's a boiler output – and a type of boiler – that will be right for your customers' homes and their lifestyles.

Siting is simple with a wide range of flue options that allow you to meet the needs of each property. Worcester has a technical support team based here in the UK on hand to help with any technical queries you may have.



The Greenstar series – CORGI Award winner in 2005, 2006 and 2007

Greenstar gas-fired series at a glance		
Combi models	Domestic hot water at 35°CΔT (l/m)	Output (kW)
i Junior series	9.8 & 11.4	24 & 28
Si series	10.2 & 12.3	25 & 30
CDi series	11.0, 12.6, 15.1 & 17.1	27, 30, 37 & 42
Highflow 440 (floor standing model)	20 l/m DHW at ave. 35°CΔT	30
Regular models	Domestic hot water at 35°CΔT (l/m)	Output (kW)
Ri series	N/A	12, 15, 18 & 24
CDi Conventional series	N/A	30 & 40
System models	Domestic hot water at 35°CΔT (l/m)	Output (kW)
i System series	N/A	12 & 24
30CDi System	N/A	30

Greenstar oil-fired series at a glance		
Combi models	Domestic hot water at average 35°CΔT (l/m)	Output (kW)
Heatslave series	15, 18 & 22	18, 25 & 32
Heatslave External series	15, 18 & 22	18, 25 & 32
Regular models	Domestic hot water at average 35°CΔT (l/m)	Output (kW)
Danesmoor 18/25	N/A	25
Utility series	N/A	25, 50 & 70
Camray series	N/A	18, 25 & 30
Camray Utility series	N/A	18, 25 & 30
Camray External series	N/A	18, 25 & 30
System models	Domestic hot water at average 35°CΔT (l/m)	Output (kW)
Camray Kitchen System series	N/A	18, 25 & 30
Camray Utility System series	N/A	18, 25 & 30

Heating system controls – choosing the right option will help reduce your customers' fuel costs

We offer different types of control that you can install, and which type you select will depend upon the customer for whom you are working.

Controls available range from basic mechanical timers that are simple to operate, right through to highly sophisticated and intelligent digital and wireless radio frequency programmers.



MT10 Mechanical timer



DT20 Twin-channel digital programmer



MT10RF Mechanical RF (radio frequency) thermostat



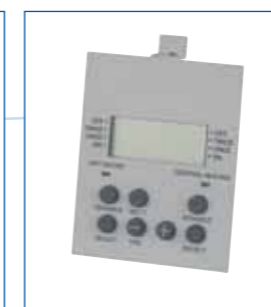
DT20RF RF (radio frequency) thermostat with digital twin-channel timer



D10RF Digistat 24-hour programmable room thermostat



DT10RF 7-day optimising Digistat programmable room thermostat



7-day twin-channel timer



TD200 text display programmer and RT10 room thermostat



Intelligent System Package (for Greenstar 30CDi system boiler only)



Twin channel 7 day digital programmer (Greenstar oil-fired boilers)

Greenskies. Award-winning solar water heating technology

People across the UK are warming to solar energy as part of the solution to providing their hot water. It's a cost-effective and very environmentally-friendly way of contributing to the hot water we all need. Worcester has developed solar water heating technology for the UK and in 2005 launched the Greenskies solar water heating system.

CORGI Award-winning Greenskies solar water heating panels operate on the

principle of light absorption and don't depend on long spells of bright sunshine.

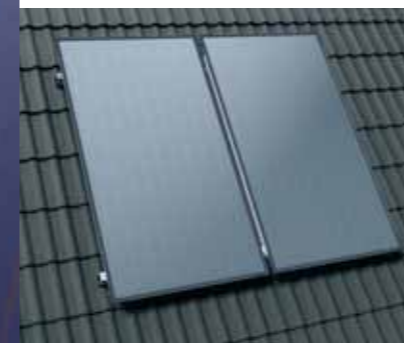
The panels work perfectly with Greenstar regular and system boilers, and on average, over a year, could provide between 50%-70% of the hot water required in the home.

A range of twin-coil hot water cylinders with capacities of up to 300 litres is available for use with Greenskies solar water heating.



CORGI Energy Efficient Product of the Year 2007

Greenskies solar water heating panel range				
Greenskies FKC	Orientation	Coating	Absorption	Emission
FKC-1S	Portrait	Black Chrome	95% ± 2%	12% ± 2%
FKC-1W	Landscape	Black Chrome	95% ± 2%	12% ± 2%
Greenskies FKT				
FKT-1S	Portrait	PVD	95% ± 2%	5% ± 2%
FKT-1W	Landscape	PVD	95% ± 2%	5% ± 2%



Greenskies FKC solar water heating panels are available in both portrait and landscape orientations and can be in-roof, on-roof or wall-mounted. Greenskies FKT are high performance solar water heating panels.

Greenstore. Ground source heat pumps that use the natural heat stored in the earth



Ground source heat pumps are a proven technology. They are relatively new to the UK but have been used for many years – particularly in Northern Europe.

These highly innovative products tap into the latent energy from the sun which is absorbed by the earth. They simply extract that energy from below the surface of the land adjoining or close to your customer's property.

The technology behind GSHPs is very simple. The system works on a very similar heat exchange principle to a fridge, but in reverse. Pipework is laid at a certain depth in the soil outside the property and a water/glycol liquid mix circulates through the pipes, extracting the stored heat from the earth and transferring it to the heat pump. This extracts the heat and 'pumps' it to a heat store which is used to provide the heating and hot water for the house.

The Greenstore range offers the option of 4 heating only System models and 4 combined heating and hot water Combination heat pumps, with the latter being fully compliant with Building Regulation G3.

The market for renewable energy solutions is growing and opportunities exist for installers to work with Worcester in providing these solutions to UK homes.



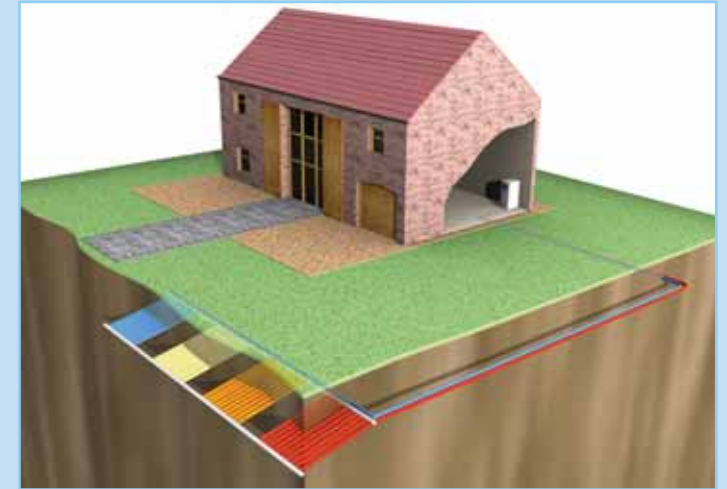
Combination models compliant with Building Regulation G3

Greenstore ground source heat pump range		
Greenstore Combination	Size mm (hwxwd)	Outputs
	1800 x 600 x 600	6, 7, 9, 11kW
Greenstore System		
	1520 x 600 x 600	6, 7, 9, 11kW

Different types of ground source heat pump collector



Horizontal collector



Compact collector



Bore hole collector



Technical help

Our Worcester-based dedicated Technical Help Line is open 6 days a week and from 7am Monday to Friday. It's manned by well-qualified people who understand the complexities of a situation but can simplify the solution and communicate it succinctly. It's been a major contributor to our success and something that will continue to be one of our key priorities.



2007 OFTEC 'National Training Centre of the Year' and 'Regional Training Centre of the Year' Award winners

Quality pre- and post-sales support

Training

Worcester has built a reputation for being at the forefront of education and training in the industry. Every year Worcester trains in excess of 14,000 installers – either at Worcester in the Worcester Training Academy, the first of its kind in the UK when it opened in 2003, at its training centres around the UK or through the company's innovative mobile training vehicles. There are also over 100 selected colleges, with which Worcester works closely.

As well as providing comprehensive training on the installation, commissioning and servicing of Worcester boilers, accredited training courses on solar systems and ground source heat pumps are available. Worcester also offers wider industry training such as OFTEC training for those working with oil-fired boilers.



Environment 2010

The Environment 2010 Awards reflect the long-term commitment made by governments worldwide to reduce emissions of harmful greenhouse gases in the 2010 Kyoto Agreement.

The Awards, which Worcester launched in 2000, consist of four categories: Installation, Self-build, Specification and Images (children's art competition).

Every year an Environment 2010 Award ceremony is held to reward individuals and organisations within the installation, specification and building trades for their contribution to energy efficiency and the

environment in their work. One talented young person is also presented with an award for producing an outstanding piece of artwork based on the theme 'The home and the environment'.

Picture a greener future

To help children understand the impact of global warming and the ways in which we can all help to reduce energy wastage and harmful emissions in everyday life, Worcester has produced a special children's book. If you would like a free copy, simply call 01905 752556 or visit www.worcester-bosch.co.uk



Children's art competition winner 2006



2006 installation winner. Pictured (left to right): Steve Lister, Director of Sales, Andy Buchan and Nick Eyre, Director of Strategy, Energy Saving Trust.



Worcester 'energy houses' – see our products in use

At Worcester, we are developing a network of 'energy houses' around the country that we are monitoring closely to illustrate the benefits of the energy efficient heating and hot water products installed within them.

These live case studies will demonstrate how Worcester products provide environmentally-friendly heating and hot water in a wide variety of different types of property. You can tap into these 'energy houses' via our website at www.worcester-bosch.co.uk/energyhouses



Useful numbers

Sales

Tel: 01905 752640
Fax: 01905 456445

Technical (Pre & Post Sales) Training

Tel: 08705 266241
Fax: 01905 752741

Tel: 01905 752526
Fax: 01905 752535

Spare Parts

Tel: 01905 752576
Fax: 01905 754620

Service

Tel: 08457 256206
Fax: 01905 757536
Livingston (Scotland)
Fax: 01506 441687

Literature Line

Tel: 01905 752556
or download instantly
from our website

www.worcester-bosch.co.uk



The Council for
Registered Gas
Installers



In partnership with



energy saving trust™



The mark of quality for domestic heating

Worcester, Bosch Group is a brand name of Bosch Thermotechnology Ltd.

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