

PRODUCT GUIDE

Renewable Energy, Sustainable Heating
and Water Saving Solutions



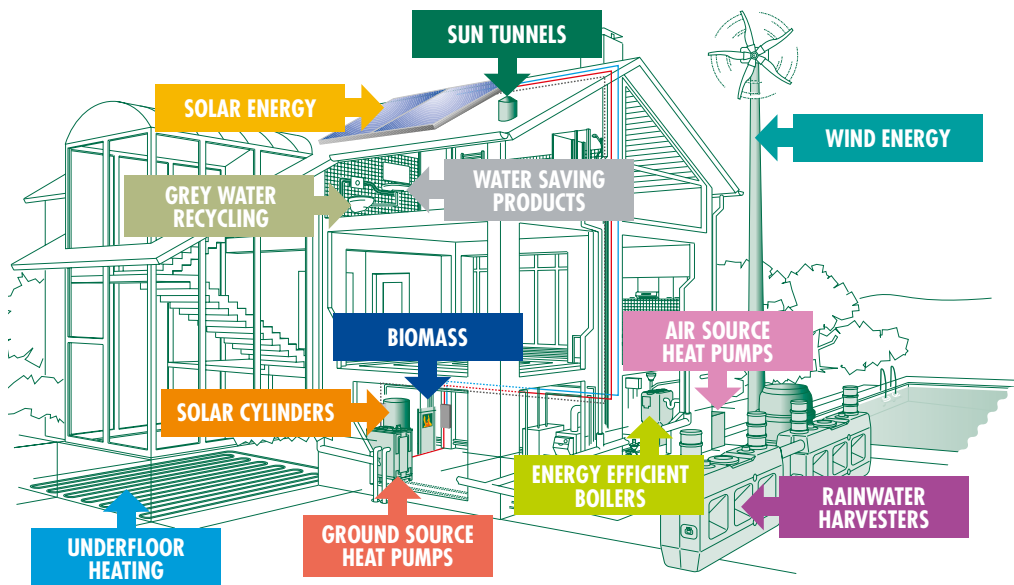
Welcome to the Greenworks Renewable Energy, Sustainable Heating and Water Saving Solutions Product Guide — your single source for alternative heating, hot water generation systems including solar panels, wind turbines, high efficiency boilers, water saving devices, air/ground source heat pumps and underfloor heating systems from all the major brands.

Inside this guide you will find comprehensive details on all the renewable energy products and solutions that we provide for builders, property developers, architects and plumbing & heating engineers.

We can also offer expert advice on installation as well as facilitating external training for you and your team. For further details or to place your order, simply call **0800 077 8965** today.

www.greenworks-energy.co.uk





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November 2008

SOLAR ENERGY

PHOTOVOLTAIC SOLAR PANELS – ELECTRICITY GENERATION

Greenworks offer both solar photovoltaic (PV) systems and solar thermal collectors (Flat Plate collectors and Evacuated Tube solar collectors). The PV systems use the sun's energy to create electricity and only require daylight, not direct sunlight, to work.



Using the sun's energy to create electricity, PV systems only require daylight – not direct sunlight – to work. PV systems convert solar radiation into electricity.

The simplest systems provide electricity to a building directly, but they can also be used with batteries to store energy or be connected to the main grid. The efficiency of a PV system is affected by its location and aspect with southerly locations and south facing panels being more effective.

Where can they be used?

Solar PV systems are suitable for use in almost any building. They need a suitable south facing area for panels to be mounted, and can be used as a stand-alone electricity supply directly to the building, or can be connected to the main grid.

What are the key benefits?

- They do not generate greenhouse gases, saving CO₂ emissions
- Grants are available to cover up to 50% of installation costs – dramatically reducing the pay-back period
- There are a number of installation options available including on-roof, canopy, façade, sky light and complete roof solutions

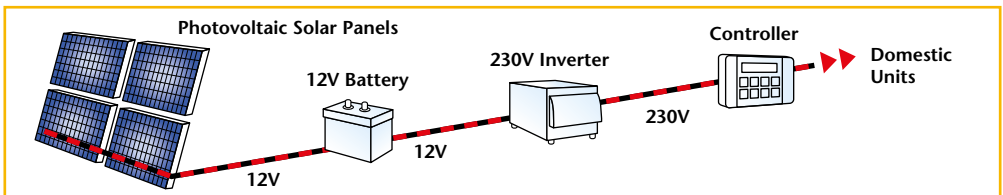
Typical Photovoltaic Solar Collector System

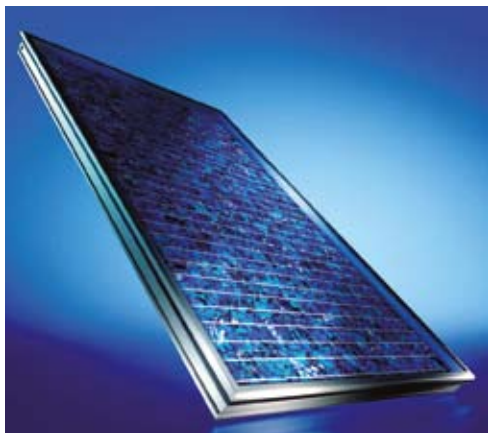


Photovoltaic Solar Collectors

Installing solar panels

- Although easy to install, the location and aspect, weather, shade and tilt should all be considered first – these factors will affect the performance of the system. Planning permission may also be required
- The PV system can connect in to the local electricity network, any excess can be sold back to the grid. Contact your local electricity provider for further details
- In a stand-alone system, solar electricity is stored in a battery for use at a later time
- You can use PV systems for a building with a roof or wall that faces within 90° of South, as long as no other large buildings or trees shadow it.
- In England changes to permitted development rights for domestic renewable technologies mean that most solar PV installations do not require planning permission as long as they respect certain size criteria. Exceptions will apply for installations on flat roofs, listed buildings and buildings in conservation areas.





Code	Schuco PV Panels	Manufacturer Code	List Price £
HS249916	SCHUCO Premiumline PV Panel S320 PM2 Silver	249916	£1,607.84 £1,889.21
HS249917	SCHUCO Premiumline PV Panel S320 PM2 Bronze	249917	£1,607.84 £1,889.21
HS221577	SCHUCO Premiumline On Roof Fixing - 2 On Roof Port Adj Silver	221577	£168.72 £198.25
HS221037	SCHUCO Prem Line On Roof Fixing - 2 On Roof Port Adj Bronze	221037	£168.72 £198.25
HS249265	SCHUCO Invertor SB 1100 ESS	249265	£590.52 £693.86
HS249266	SCHUCO Invertor SB 1700 ESS	249266	£764.24 £897.98
HS249268	SCHUCO Invertor SB 2500 ESS	249268	£1,007.31 £1,183.59
HS249502	SCHUCO Solar Cable 100m Black	249502	£78.64 £92.40
HS231443	SCHUCO Charge Regulator 20 Amp	231443	£35.03 £41.16
HS231444	SCHUCO Charge Regulator 40 Amp	231444	£53.62 £63.00

Fitting Facts

- You must use a qualified installer when fitting this type of technology.
- The low-carbon buildings programme will provide grants for installing this technology. Visit: www.lowcarbonbuildings.org.uk

Code	Schuco PV Panels	Manufacturer Code	List Price £
HS12GB01	SOLARCENTURY C21e Solar Electric R/Tile System – 12 Tile C21E-12GB-01/C21E-12GB-01		£5,572.00 £6,547.10
HS18GB01	SOLARCENTURY C21e Solar Electric R/Tile System – 18 Tile C21E-18GB-01/C21E-18GB-01		£7,660.00 £9,000.50
HS24GB01	SOLARCENTURY C21e Solar Electric R/Tile System – 24 Tile C21E-24GB-01/C21E-24GB-01		£9,446.00 £11,099.05
HS36GB01	SOLARCENTURY C21e Solar Electric R/Tile System – 36 Tile C21E-36GB-01/C21E-36GB-01		£12,960.00 £15,228.00
HS48GB01	SOLARCENTURY C21e Solar Electric R/Tile System – 48 Tile C21E-48GB-01/C21E-48GB-01		£16,729.00 £19,656.58
HS60GB01	SOLARCENTURY C21e Solar Electric R/Tile System – 60 Tile C21E-60GB-01/C21E-60GB-01		£20,676.00 £24,294.30
HS72GB01	SOLARCENTURY C21e Solar Electric R/Tile System – 72 Tile C21E-72GB-01/C21E-72GB-01		£24,609.00 £28,915.58

SOLAR ENERGY

THERMAL FLAT PLATE COLLECTORS – HOT WATER SOLUTION

By heating your water using the sun's radiation, thermal collectors provide almost all your hot water during the summer and an average of 50-70% annually. The liquid that circulates the panels is heated by the sun, this then passes through a coil in the water tank which in turn heats the water. A twin coil cylinder is required, as one coil receives the heat from the collector on the roof, and the other is used to supply heat from the main heat source when solar energy is insufficient.



Flat Plate
Solar Collector



Evacuated Tube
Solar Collector

Where can they be used?

Although typically used domestically, there are solar thermal systems on the market to cater for any size of building. Ideally they will need to be mounted on a south facing surface, which receives direct sunlight for most of the day.

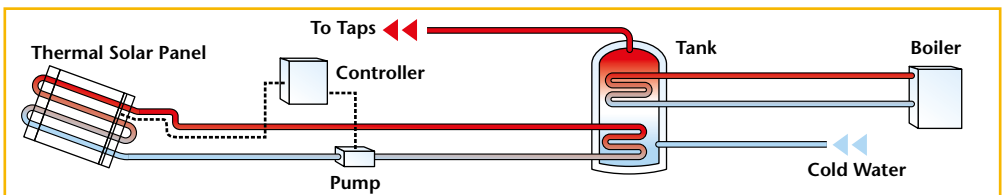
What are the benefits?

- Reduces CO₂ emissions on an average domestic system by up to 400kg per year (depending on the fuel being replaced)
- Easy-to-install and maintain
- They can easily be integrated with other heating systems to meet the additional hot water requirements during winter.

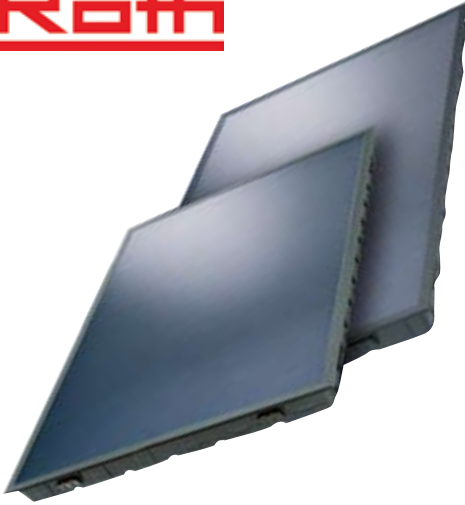
Installing solar thermal systems

- There are a number of installation options available including surface-mounted options for pitch or flat roofs, A-frames, in-roof and complete roof installation, canopy or façade construction. Greenworks can advise you on the best solution for your project
- Solar thermal systems need to be connected to a twin coil cylinder – which is often bigger than a standard hot water cylinder. One coil receives heat from the solar collector on the roof, while the second receives heat from the other main heat source when there is insufficient sunlight
- Greenworks offer a full range of hot water cylinders and can advise you on the correct size of cylinder for your project. Space should be allowed for these cylinders when planning your project.
- You will need 2-4m² of South-East to South-West facing roof space.
- DIY jobs are not eligible for grant funding and the best practice is to use a professional installer.

Typical Evacuated Tube/ Flat Plate Solar Collector system



Roth



Code	Roth Solar Panels Panel Packs	Manufacturer Code	List Price £
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HR218OR2	Heliostar 218 On-roof 2 collector package	115007692	£2,227.00 £2,616.73
HR218IR2	Heliostar 218 In-roof 2 collector package	115007687	£2,798.00 £3,287.65

Code	Roth Solar Panels On-roof Kit	Manufacturer Code	List Price £
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HH007682	Heliostar 218 Flat Plate Collector	1115007682	£623.00 £732.03
HRS02274	Solar Station	1135002274	£395.00 £464.13
HRS03975	Roth BW Controller	1135003975	TBA TBA
HRS02249	ROTH 18L Expansion Tank	1135003144	£58.68 £68.95
HRS02277	Solar Fluid – 10 litres	1135002277	£64.00 £75.20
HH007446	Heliostar on-roof attachment kit	1115007446	£213.00 £250.28
HH004083	Roth attachment anchor – universal basic vertical (set of 6, for 2 collectors)	1135004083	£103.00 £121.03

Code	Roth Solar Panels In-roof Kit	Manufacturer Code	List Price £
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HH007682	Heliostar 218 Flat Plate Collector	1115007682	£623.00 £732.03
HRS02274	Solar Station	1135002274	£395.00 £464.13
HRS03975	Roth BW Controller	1135003975	TBA TBA
HRS02249	ROTH 18L Expansion Tank	1135003144	£58.68 £68.95
HRS02277	Solar Fluid – 10 litres	1135002277	£64.00 £75.20
HH004529	Heliostar in-roof attachment kit for shaped tiled roofs	1135004529	£887.00 £1,042.23

Code	Roth Solar Panels Accessories	Manufacturer Code	List Price £
HRS02276	ROTH Expansion Tank 25L	1135002276	£64.00 £75.20
HRS02278	ROTH Solar Fluid 5L	1135002278	£38.00 £44.65
HRS02298	ROTH Service Water Mixer Bm	1135002298	£89.00 £104.58
HH007448	Heliostar on-roof attachment extension kit	1115007448	£87.00 £102.23
HH004530	Heliostar in-roof attachment extension kit	1135004530	£345.00 £405.38
HH007823	Heliostar free-standing kit (vertical)	1115007823	£166.00 £195.05
HH007822	Heliostar free-standing extension kit (vertical)	1115007822	£134.00 £157.45
HH004084	Roth attachment anchor – universal extension vertical (set of 2)	1135004084	£37.00 £43.48
HH003974	Roth rafter anchor special set (universal bolt)	1135003974	£16.00 £18.80

WORCESTER
Bosch Group



Code	Worcester Solar Panel Pack	Manufacturer Code	List Price £
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HW150000	FKS-1S Std 2 Panel Portrait Kit On Roof	7716150000	£1,412.00 £1,659.10
HW150001	FKC-1S Std 2 Panel Portrait Kit In Roof	7716150001	£1,603.00 £1,883.53
HW150002	FKC-1W Std 2 Panel L/scape Kit On Roof	7716150002	£1,410.00 £1,656.75
HW150003	FKC-1W Std 2 Panel L/scape Kit In Roof	7716150003	£1,603.00 £1,883.53
HW150004	FKC-1S High 2 Panel Portrait Kit On Roof	7716150004	£1,734.00 £2,037.45
HW150005	FKC-1S High 2 Panel Portrait Kit In Roof	7716150005	£1,925.00 £2,261.88
HW150006	FKT-1W High 2 Panel L/scape Kit On Roof	7716150006	£1,732.00 £2,035.10
HW150007	FKT-1W High 2 Panel L/scape Kit In Roof	7716150007	£1,925.00 £2,261.88

Code	Worcester Solar Individual Components On Roof (FKC-1S)	Manufacturer Code	List Price £
HW025748	WORCESTER Greenskies FKC-1S Portrait Solar Panel	7747025748	£518.86 £609.66
HW300436	WORCESTER Roof Connection FKA3 For Tile/Plain Tile	7739300436	£45.29 £53.21
HW002438	WORCESTER Connection Set FS55 For FKC On Roof	7747002438	£49.41 £58.05
HW300432	WORCESTER Air Vent Set ELT5 For FKC	7739300432	£43.92 £51.60
HW300440	WORCESTER On Roof FKA5 Vertical Basic 1 Collector	7739300440	£68.64 £80.65
HW300441	WORCESTER On Roof FKA6 Vertical Extension 1 Collector	7739300441	£75.50 £88.71
HW300378	WORCESTER Solar Controller TDS10	7739300378	£163.34 £191.92
HW300377	WORCESTER Solar Pump Station AGS2	7739300377	£229.24 £269.35
HW300331	WORCESTER Solar Exp Vessel Connection AAS1	7739300331	£61.77 £72.58
HW300119	WORCESTER Solar Expansion Vessel SAG 25	7739300119	£45.29 £53.22
HW300057	Solar fluid - WTF25 25 Ltr	7739300057	£72.75 £85.48

Code	Worcester Solar Individual Components High Performance On Roof (FKT-1S)	Manufacturer Code	List Price £
HW025750	WORCESTER Solar Collector FKT-1S Portrait Solar Panel	7747025750	£739.86 £869.34
HW300436	WORCESTER Roof Connection FKA3 For Tile/Plain Tile	7739300436	£45.29 £53.22
HW002442	WORCESTER Connection Set FS59 for FKT On Roof Integral	7747062442	£49.41 £58.06
HW300433	WORCESTER Air Vent Set ELT6 For FKT	7739300433	£43.92 £51.60
HW300440	WORCESTER On Roof FKA5 Vertical Basic 1 Collector	7739300440	£68.64 £80.65
HW300441	WORCESTER On Roof FKA6 Vertical Extension 1 Collector	7739300441	£75.50 £88.71
HW300378	WORCESTER Solar Controller TDS10	7739300378	£163.34 £191.92
HW300377	WORCESTER Solar Pump Station AGS2	7739300377	£229.24 £269.35
HW300331	WORCESTER Solar Exp Vessel Connection AAS1	7739300331	£61.77 £72.58
HW300119	WORCESTER Solar Expansion Vessel SAG 25	7739300119	£45.29 £53.22
HW300057	Solar fluid - WTF25 25 Ltr	7739300057	£72.75 £85.48



Code	Vokera Solar Panels	Manufacturer Code	List Price £
HV000580	Zenith On Tile Solar Collector Package Pitched Roof (2 Panels)	580	£2,799.00 £3,288.83
HV000581	Zenith On Tile Solar Collector Package Flat Roof (2 Panels)	581	£2,799.00 £3,288.83
HV000582	Zenith Inset Into Tiles Solar Collector Package (2 Panels)	582	£2,969.00 £3,488.58

Code	Vokera Solar Accessories	Manufacturer Code	List Price £
HV150439	VOKERA Standard Controller (Two Temp)	1150439	£145.00 £170.38
HV150449	VOKERA Premium Controller (Three Temp)	1150449	£165.00 £193.88
HV150459	VOKERA Standard Pump Station (Return Only)	1150459	£185.00 £217.38
HV150469	VOKERA Premium Pump Station (Three Temp)	1150469	£329.00 £386.58
HV150489	VOKERA 18L Expansion Vessel with Metal Support	1150489	£58.00 £68.15
HV150499	VOKERA Flex and Support for 18L Expansion Vessel	1150499	£64.00 £75.20
HV150509	VOKERA 24L Expansion Vessel	1150509	£70.00 £82.25
HV150519	VOKERA 35L Expansion Vessel	1150519	£100.00 £117.50
HV150539	VOKERA Hydraulic Conn for Solar Collector (1 or 2 Collectors)	1150539	£31.00 £36.43
HV150549	VOKERA Glycol 5L (Undiluted)	1150549	£41.00 £48.18
HV150559	VOKERA Glycol 10L (Undiluted)	1150559	£79.00 £92.83
HV150609	VOKERA Conn Support for Solar Collector (1 or 2 Collectors)	1150609	£27.00 £31.73
HV150629	VOKERA Manual Air Vent for Collector	1150629	£74.00 £86.95
HV150829	VOKERA Inst Fittings Kit for One Zenith Solar Collector	1150829	£44.00 £51.70
HV150839	VOKERA Roof Fixing Kit (Flat) for 1 or 2 Collectors	1150839	£202.00 £237.35
HV150849	VOKERA Roof Fixing Kit (Pitched) for 1 or 2 Collectors	1150849	£202.00 £237.35
HV150859	VOKERA Inst Fittings Kit for Two Zenith Solar Collectors	1150859	£149.00 £175.08



Code	Ideal Solar Panels	Manufacturer Code	List Price £
HC203392	IDEAL Solar Pack 1 (1 Collector)	203392	£1,655.40 £1,945.10
HC203393	IDEAL Solar Pack 2 (2 Collectors)	203393	£2,140.20 £2,514.74
HC203394	IDEAL Solar Pack 3 (3 Collectors)	203394	£2,743.95 £3,224.14
HC203368	IDEAL Solar Collector – SC1	203368	£486.90 £572.11

Code	Ideal Solar Accessories	Manufacturer Code	List Price £
HC203526	IDEAL Solar Connector	203526	£10.00 £11.75
HC203372	IDEAL Solar Roof Fixing Bracket & Rail Kit (Tiles/1 Collector)	203372	£90.00 £105.75
HC203516	IDEAL Solar Roof Fixing Bracket & Rail Kit (Tiles/2 Collector)	203516	£180.00 £211.50
HC203373	IDEAL Solar Expansion Vessel (25 Litre)	203373	£76.90 £90.36
HC203379	IDEAL Solar Controller – EC1	203379	£153.75 £180.66
HC203380	IDEAL Solar Pump Station – PU1	203380	£348.50 £409.49
HC203382	IDEAL Solar Fluid 20 Litre	203382	£69.70 £81.90
HC203383	IDEAL Solar Fluid 10 Litre	203383	£38.95 £45.77
HC203395	IDEAL Solar Roof Fixing Kit 1 Collector (Slates)	203395	£41.00 £48.18
HC203543	IDEAL Solar Roof Fixing Kit 2 Collector (Slates)	203543	£71.75 £84.31
HC203396	IDEAL Solar Flat Roof Frame (1 Collector)	203396	£184.50 £216.79
HC203397	IDEAL Solar Filling Pump	203397	£102.50 £120.44
HC203623	IDEAL Solar Roof Inset Kit (1 Collector)	203623	£302.40 £355.32
HC203398	IDEAL Solar Roof Inset Kit (2 Collectors)	203398	£451.00 £529.93
HC203624	IDEAL Solar Roof Inset Kit (3 Collectors)	203624	£604.75 £710.58

HC203399	IDEAL Solar Roof Inset Kit (Additional Collector)	203399	£184.50 £216.79
HC203625	IDEAL Solar Roof Inset Kit (1 Collector)-Slates	203625	£276.75 £325.18
HC203626	IDEAL Solar Roof Inset Kit (2 Collectors)-Slates	203626	£410.00 £481.75
HC203627	IDEAL Solar Roof Inset Kit (3 Collectors)-Slates	203627	£548.40 £644.37
HC203628	IDEAL Solar Roof Inset Kit (Additional Collector) – Slates	203628	£169.15 £198.75



Code	Baxi Solar Panels	Manufacturer Code	List Price £
B5122262	BAXI Solarflo 1 Panel On Roof A Frame	5122262	£1,596.50 £1,875.89
B5122263	BAXI Solarflo 2 Panel On Roof A Frame	5122263	£1,854.00 £2,178.45
B5122264	BAXI Solarflo 3 Panel On Roof A Frame	5122264	£2,245.40 £2,638.35
B5122265	BAXI Solarflo 1 Panel On Roof Slate & Tile	5122265	£1,519.25 £1,785.12
B5122266	BAXI Solarflo 2 Panel On Roof Slate & Tile	5122266	£1,769.54 £2,079.21
B5122267	BAXI Solarflo 3 Panel On Roof Slate & Tile	5122267	£2,188.75 £2,571.78
B5122245	BAXI Solarflo 1 Panel In Roof Slate	5122245	£1,751.00 £2,057.43
B5122246	BAXI Solarflo 2 Panel In Roof Slate	5122246	£2,250.55 £2,644.40
B5122271	BAXI Solarflo 1 Panel In Roof Tile	5122271	£1,751.00 £2,057.43
B5122272	BAXI Solarflo 2 Panel In Roof Tile	5122272	£2,250.55 £2,644.40

Code	Potterton Solar Panels	Manufacturer Code	List Price £
B5122268	Potterton 1 Panel On Roof Slate & Tile	5122268	£1,366.81 £1,606.00
B5122269	Potterton 2 Panel On Roof Slate & Tile	5122269	£1,648.00 £1,936.40
B5122270	Potterton 3 Panel On Roof Slate & Tile	5122270	£2,085.75 £2,450.76
B5122737	Potterton 1 Panel In Roof Slate	5122737	£1,631.52 £1,917.04
B5122738	Potterton 2 Panel In Roof Slate	5122738	£2,022.92 £2,376.93
B5122739	Potterton 1 Panel In Roof Tile	5122739	£1,631.52 £1,917.04
B5122740	Potterton 2 Panel In Roof Tile	5122740	£2,022.92 £2,376.93

Code	Baxi/Potterton Solar Accessories	Manufacturer Code	List Price £
B5122237	BAXI Multifit Solar Sensor Wire 13m	5122237	£15.45 £18.15
B5122238	BAXI Multifit Solar Pipe Kit – 30m	5122238	£355.35 £417.54
B5122762	BAXI Multifit Solar Compression Fitting 6 off 22mm – Male	5122762	£36.05 £42.36
B5122763	BAXI Multifit Solar Compression Fitting 6 off 22mm – Female	5122763	£36.05 £42.36
B5122764	BAXI Multifit Solar Compression Fitting 6 off 22mm – Tee	5122764	£53.56 £62.93
B5122765	BAXI Multifit Solar Relay – Direct Heating	5122765	£41.20 £48.41
B5119559	BAXI Multifit Solar Antifreeze Test Kit	5119559	£195.70 £229.95
B5119549	BAXI Multifit Solar – Heat Transfer Fluid 20L	5119549	£55.62 £65.35
B5129979	BAXI Multifit Solar – On Roof East West Array Kit	5129979	£515.00 £605.13
B5129981	BAXI Multifit Solar – In Roof East West Array Tile Kit	5129981	£628.30 £738.25
B5129982	BAXI Multifit Solar In Roof East West Array Slate Kit	5129982	£628.30 £738.25



Code	Vaillant Solar Panels	Manufacturer Code	List Price £
HV036552	VAILLANT Aurotherm FPC VFK 900 Kit 2 Collectors	0020036552	£2,173.00 £2,553.28
HV057935	VAILLANT Aurotherm FPC VFK 900 Kit For 3 Collectors	0020057935	£2,806.00 £3,297.05
HV057936	VAILLANT Aurotherm FPC Plus VFK 990 Kit 2 Collectors	0020057936	£2,327.00 £2,734.23
HV057937	VAILLANT Aurotherm FPC Plus VFK 990 Kit for 3 Collectors	0020057937	£3,037.00 £3,568.48

Code	Vaillant Solar Accessories	Manufacturer Code	List Price £
HV302026	VAILLANT Roof Bracket for Slate & Clay Tiles for 2 FPC (6)	302026	£50.00 £58.75
HV309627	VAILLANT Flat Roof A-Frame Set for Horizontal Inst of 1 VFK 900	309627	£78.00 £91.65
HV309629	VAILLANT Flat Roof A-Frame Set for Vert Instn of 1 VFK 900	309629	£78.00 £91.65
HV302394	VAILLANT Flat Roof A-Frame Set for Vert Inst Of 1 Add VFK 900	302394	£130.00 £152.75
HV302369	VAILLANT Gravel Plates for One Collector (3)	302369	£87.50 £102.81
HV302370	VAILLANT Gravel Plates for Two Collectors (5)	302370	£162.50 £190.94
HV302035	VAILLANT Flat Plate Collector Carrying Handles	302035	£21.00 £24.68
HV020645	VAILLANT Antifreeze Test Kit	0020020645	£36.50 £42.89
HV302363	VAILLANT Solar Fluid GI-S (10 Litres)	302363	£27.50 £32.31
HV302066	VAILLANT Safety Belt Set for Roof Working	302066	£242.50 £284.94
HV026480	VAILLANT Filling Pump	0020026480	£146.00 £171.55

Prices shown in red are inclusive of VAT

Code	Vaillant Solar Accessories	Manufacturer Code	List Price £
HV045576	VAILLANT Solar Filling Pump Trolley	0020045576	£380.00 £446.50
HV042549	VAILLANT Refractometer	0020042549	£126.00 £148.05
HV302444	VAILLANT Collector Tubing 2 x 1 Meter (DN16)	302444	£25.00 £29.38
HV309644	VAILLANT Flexible Tube 2-In-1 (DN 16) 15m	309644	£284.00 £333.70
HV023066	VAILLANT Flexible Tube (Single Tube) 15 Meter (DN 16)	0020023066	£122.00 £143.35
HV023067	VAILLANT Additional Fitting Pack for Flexible Pipe DN 16	0020023067	£21.00 £24.68

Kingspan SOLAR



Code	Kingspan (MARVEL) Solar Panels	Manufacturer Code	List Price £
HKSP0000	CLS 2108 on roof 1 Panel Pack with normal brackets	21-01-ORNA	£935.14 £1,098.79
HKSP0005	CLS 2108 on roof 1 panel pack with A frame brackets	21-01-ORAA	£962.28 £1,130.68
HKSP0010	CLS 2108 on roof 2 panel with normal brackets	21-02-ORNA	£1,411.23 £1,658.20
HKSP0015	CLS 2108 on roof 2 panel with A frame brackets	21-02-ORAA	£1,441.81 £1,694.13
HKSP0020	CLS 2108 on roof 3 panel pack with normal brackets	21-03-ORNA	£1,887.33 £2,217.61
HKSP0025	CLS 2108 in roof 1 panel pack for a flat tiled roof	21-01-FIRA	£1,073.75 £1,261.66
HKSP0030	CLS 2108 in roof panel pack for a flat tiled roof	21-02-FIRA	£1,595.70 £1,874.95
HKSP0035	CLS 2108 in roof 2 panel pack for a flat tiled roof – east/west	21-02-FIRA-EW	£1,879.70 £2,208.65
HKSP0040	CLS 2108 in roof 3 panel pack for a flat tiled roof	21-03-FIRA	£2,125.24 £2,497.16
HKSP0045	CLS 2108 in roof 1 panel pack for a pantile roof	21-01-PIRA	£1,073.75 £1,261.66
HKSP0050	CLS 2108 in roof 2 panel pack for a pantile roof	21-02-PIRA	£1,595.70 £1,874.95
HKSP0055	CLS 2108 in roof 2 panel pack for a pantile roof – east/west	21-02-PIRA-EW	£1,879.70 £2,208.65
HKSP0060	CLS 2108 in roof 3 panel pack for a pantile roof	21-03-PIRA	£2,125.24 £2,497.16
HKSP0065	CLS 1808 on roof 1 panel pack with a normal bracket	18-01-ORNA	£935.14 £1098.79

HKSP0070	CLS 1808 on roof 1 panel pack with A frame brackets	18-01-ORAA	£962.28 £1,130.68
HKSP0075	CLS 1808 on roof 2 panel pack with normal brackets	18-02-ORNA	£1,411.23 £1,658.20
HKSP0080	CLS 1808 on roof 2 panel pack with A Frame brackets	18-02-ORAA	£1,441.81 £1,694.13
HKSP0085	CLS 1808 on roof 3 panel pack with normal brackets	18-03-ORNA	£1,887.33 £2,217.61
HKSP0090	CLS 1808 in roof 1 panel pack for a flat tiled roof	18-01-FIRA	£1,073.75 £1,261.66
HKSP0095	CLS 1808 in roof 2 panel pack for a flat tiled roof	18-02-FIRA	£1,595.70 £1,874.95
HKSP0100	CLS 1808 in roof 2 panel pack for a flat tiled roof – east/west	18-02-FIRA-EW	£1,879.70 £2,208.65
HKSP0105	CLS 1808 in roof 3 panel pack for a flat tiled roof	18-03-FIRA	£2,125.24 £2,497.16
HKSP0110	CLS 1808 in roof 1 panel pack for a pantile roof	18-01-PIRA	£1,073.75 £1,261.66
HKSP0115	CLS 1808 in roof 2 panel pack for a pantile roof	18-02-PIRA	£1,595.70 £1,874.95
HKSP0120	CLS 1808 in roof 2 panel pack for a pantile roof – east/west	18-02-PIRA-EW	£1,879.70 £2,208.65
HKSP0125	CLS 1808 in roof 3 panel pack for a pantile roof	18-03-PIRA	£2,125.24 £2,497.16
HKSP0130	CLS 2108 Solar panel	210800	£410.79 £482.68
HKSP0195	CLS 1808 Solar Panel	180800	£410.79 £482.68

Code	Kingspan Solar Accessories	Manufacturer Code	List Price £
HKSP0135	CLS 2108 on roof brackets (single)	210801-BN	£65.31 £76.74
HKSP0140	CLS 2108 A Frame brackets (single)	210801-BAS	£120.30 £141.35
HKSP0145	CLS 2108 A Frame brackets (double)	210801-BA	£189.08 £222.17
HKSP0150	CLS 2108 Single cassette for a flat tiled roof	210801-SCF	£203.93 £239.62
HKSP0155	CLS 2108 Double cassette for a flat tiled roof	210802-DCF	£315.10 £370.24
HKSP0160	CLS 2108 Triple cassette for a flat tiled roof	210803-TCF	£433.85 £509.77
HKSP0165	CLS 2108 Single cassette for a pantile roof	210801-SCP	£203.93 £239.62
HKSP0170	CLS 2108 Double cassette for a pantile roof	210802-DCP	£315.10 £370.24
HKSP0175	CLS 2108 Triple cassette for a pantile roof	210803-TCP	£433.85 £509.77
HKSP0180	CLS 2108 Single panel shroud to hide the pipework	210801-SS	£150.00 £176.25
HKSP0185	CLS 2108 Double panel shroud to hide the pipework	210802-DS	£193.75 £227.66
HKSP0190	CLS 2108 Triple Shroud to hide the pipework	210803-TS	£320.00 £376.00
HKSP0200	CLS 1808 on roof brackets (single)	180801-BN	£65.31 £76.74
HKSP0205	CLS 1808 A Frame brackets (single)	180801-BAS	£120.30 £141.35
HKSP0210	CLS 1808 A Frame brackets (double)	180801-BA	£189.08 £222.17
HKSP0215	CLS 1808 Single cassette for flat tiles	180801-SCF	£203.93 £239.62

SCHÜCO



Code	Kingspan Solar Accessories	Manufacturer Code	List Price £
HKSP0220	CLS 1808 Double cassette for flat tiles	180802-DCF	£315.10 £370.24
HKSP0225	CLS 1808 Triple cassette for flat tiles	180803-TCF	£433.85 £509.77
HKSP0230	CLS 1808 Single cassette for pantiles	180801-SCP	£203.93 £239.62
HKSP0235	CLS 1808 Double cassette for pantiles	180802-DCP	£315.10 £370.24
HKSP0240	CLS 1808 Triple cassette for pantiles	180803-TCP	£433.85 £509.77
HKSP0245	CLS 1808 Single panel shroud to hide the pipework	180801-SS	£150.00 £176.25
HKSP0250	CLS 1808 Double panel shroud to hide the pipework	180802-DS	£193.75 £227.66
HKSP0255	CLS 1808 Triple panel shroud to hide the pipework	180803-TS	£320.00 £376.00
HKSP0260	Pump and separate controller	6400-PUMP/CON	£378.68 £444.95
HKSP0265	East/west pump and separate controller	6400-PUMP/CON EW	£569.93 £669.67
HKSP0270	10L Glycol pre-mixed	6400-GP	£27.85 £32.72
HKSP0275	19L Expansion vessel and brackets	6400-EXP+B	£42.20 £49.59
HKSP0280	Fittings pack	6400-FP-SFS	£10.31 £12.11
HKSP0285	1st Fix kit	6400-1STFIX	£71.25 £83.72
HKSP0290	2nd Fix kit	6400-2NDFIX	£173.75 £204.16
HKSP0295	Filling Station	6400-FILLING STATION	£468.75 £550.78
HKSP0300	Tool kit (includes Press tool, cutter, fittings and washers)	6400-TOOLKIT	£375.00 £440.63

Code	Schuco Solar Panels	Manufacturer Code	List Price £
HS221067	SCHUCO Sol AI Bronze Premiumline	221067	£689.18 £809.79
HS221483	SCHUCO Sol 1 AI Bronze Premiumline	221483	£724.21 £850.95
HS221894	SCHUCO Sol K Black Compactline	221894	£499.72 £587.17
HS221911	SCHUCO Sol K1 Black Compactline	221911	£535.32 £629.00

Code	Schuco Solar Accessories	Manufacturer Code	List Price £
HS221001	SCHUCO Collector Array Connection Kit Premiumline	221001	£85.07 £99.96
HS221002	SCHUCO Collector Connection Premiumline	221002	£11.44 £13.44
HS231039	SCHUCO Collector Array Connector Kit Compactline	231039	£85.07 £99.96
HS231040	SCHUCO K Connector	231040	£20.73 £24.36
HS221013	SCHUCO Copper Double Pipe 15mx 15mm	221013	£284.53 £334.32
HS221014	SCHUCO Copper Double Pipe 25mx 15mm	221014	£471.13 £553.58
HS231021	SCHUCO Pipe Clip Set	231021	£15.01 £17.64
HS249424	SCHUCO Complete Solar Station 1.1 FS	249424	£328.14 £385.56
HS231250	SCHUCO Complete Solar Station 1.4	231250	£473.27 £556.09
HS221006	SCHUCO Expansion Vessel 18L	221006	£61.48 £72.24
HS221007	SCHUCO Expansion Vessel 25L	221007	£77.21 £90.72
HS221028	SCHUCO Connecting Hose Exp Tank	221028	£16.44 £19.32
HS221027	SCHUCO Wall Bracket For Exp Tank	221027	£25.74 £30.24



Prices shown in red are inclusive of VAT



HS221011	SCHUCO Solar Fluid 20L	221011	£55.05 £64.68
HS249428	SCHUCO Controller Solo FS	249428	£205.18 £241.09
HS249426	SCHUCO Back Plate For Controller	249426	£17.16 £20.16
HS221019	SCHUCO Additional Temp Sensor	221019	£13.58 £15.96
HS221577	SCHUCO Premiumline On Roof Fixing - 2 On Roof Port Adj Silver	221577	£168.72 £198.25
HS221037	SCHUCO Prem Line On Roof Fixing - 2 On Roof Port Adj Bronze	221037	£168.72 £198.25
HS221095	SCHUCO Prem Line Fixing - 2 In Roof Port Al Grey	221095	£383.91 £451.09
HS221101	SCHUCO Prem Line Fixing - 2 In Roof Port Brown	221101	£383.91 £451.09
HS221642	SCHUCO Compactline 2 On Rf K Port Adj Black	221642	£152.99 £179.76
HS231024	SCHUCO Compactline - In Rf 2 Adj Ptr Black	231024	£484.00 £568.70
HS249263	SCHUCO Standard Module S175Sp 3 (NEW 2008, S175Sp 4 - 256034)	249263	£1,501.32 £1,764.05

Code	Grant Solar Panels	Manufacturer Code	List Price £
HGSAKIT1	GRANT Solar Aurora Kit On Roof (2 Collector)	GSAKIT1	£2,707.50 £3,181.31
HGSAKIT2	GRANT Solar Aurora Kit On Roof (3 Collector)	GSAKIT2	£3,724.00 £4,375.70
HGSSKIT1	GRANT Solar Sahara Kit On Roof (2 Collector)	GSSKIT1	£2,844.50 £3,342.29
HGSSKIT2	GRANT Solar Sahara Kit On Roof (3 Collector)	GSSKIT2	£3,919.00 £4,604.83
HGSSKIT3	GRANT Solar Sahara Kit In Roof (2 Collector Tile)	GSSKIT3	£3,130.50 £3,678.34
HGSSKIT4	GRANT Solar Sahara Kit In Roof (3 Collector Tile)	GSSKIT4	£4,256.50 £5,001.39
HS222720	GRANT Aurora Solar Collector	GS222720	£735.00 £863.63
HS222773	GRANT Sahara Solar Collector	GS222773	£778.00 £914.15
HS222011	GRANT 2 x Collector Portrait On Roof Kits Aurora	GS222011	£137.00 £160.98
HS222721	GRANT 1 x Collector Portrait On Roof Extension Kit Aurora	GS222721	£109.00 £128.08
HS222741	GRANT 2 x Collector Portrait On Roof Kit Sahara	GS222741	£188.00 £220.90
HS222742	GRANT 1 x Collector Portrait On Roof Extension Kit Sahara	GS222742	£160.00 £188.00
HS222161	GRANT 2 x Collector Flat Roof Rails + Fixings	GS222161	£231.00 £271.43
HS222022	GRANT 1 x Collector Landscape On Roof Extension Kit	GS222022	£123.50 £145.11
HS222028	GRANT 2 x Collector Portrait Flat Roof Kit	GS222028	£141.00 £165.68



Prices shown in red are inclusive of VAT

HS222169	GRANT 2 x Collector Flat Roof Cruciform	GS222169	£51.00 £59.93	HS222148	GRANT Anchor For Profile Concrete Tile (Pk2)	GS222148	£34.00 £39.95
HGSAKIT0	GRANT Solar Aurora Kit On Roof (1 Collector)	GSAKIT0	£1,851.00 £2,174.93	HS222088	GRANT Anchor Flat Concrete Tile (Pk2)	GS222088	£34.00 £39.95
HGSAKIT5	GRANT Solar Aurora Kit Flat Roof (2 Collector)	GSAKIT5	£2,797.50 £3,287.06	HS222139	GRANT Filling Station	GS222139	£907.00 £1,065.73
HGSSKIT0	GRANT Solar Sahara Kit On Roof (1 Collector)	GSSKIT0	£1,945.00 £2,285.38	HS222003	GRANT Connection Kit Lead Flashing (Pk2)	GS222003	£52.00 £61.10
HGSSKIT5	GRANT Solar Sahara Kit Flat Roof (2 Collector)	GSSKIT5	£2,934.50 £3,448.04	HS222051	GRANT Collector Carrying Handles (Pk4)	GS222051	£89.00 £104.58
HSSKIT15	GRANT Solar Sahara Kit In Roof (1 Collector Tile)	GSSKIT15	£2,111.00 £2,480.43	HS222002	GRANT Reflective Solar Collector Cover	GS222002	£64.99 £76.36
HSSKIT16	GRANT Solar Sahara Kit In Roof (1 Collector Slate)	GSSKIT16	£2,096.00 £2,462.80	HS222001	GRANT T Bar Allen Key 6mm	GS222001	£15.75 £18.51
HSSKIT17	GRANT Solar Sahara Kit In Roof (2 Collector Tile)	GSSKIT17	£3,109.50 £3,653.66	HS222080	GRANT Insulated Pipe Clips (Pk4)	GS222080	£22.00 £25.85
HSSKIT18	GRANT Solar Sahara Kit In Roof (2 Collector Slate)	GSSKIT18	£4,238.00 £4,979.65	HS222772	GRANT 10m Insulated Copper Solar Pipe	GS222772	£340.00 £399.50
				HS222078	GRANT 15m Insulated Copper Solar Pipe	GS222078	£398.00 £467.65
				HS222079	GRANT 25m Insulated Copper Solar Pipe	GS222079	£672.00 £789.60
				HMBISOL3	GRANT Combisol	COMBISOL3	£220.00 £258.50



Uni Sol[®]



Code	Grant Solar Accessories	Manufacturer Code	List Price £
HS222783	GRANT Collector Extension Kit	GS222783	£52.00 £61.10
HS222090	GRANT Anchor Slate Tile (Pk2)	GS222090	£34.00 £39.95
HGEO3601	GRANT 28mm Weather Comp Control	GEO3601	£750.00 £881.25
HGEO3602	GRANT 35mm Weather Comp Control	GEO3602	£775.00 £910.63
HS222146	GRANT Connection Kit Flow And Return	GS222146	£95.00 £111.63
HS222068	GRANT Connection Kit Collector To Collector	GS222068	£14.50 £17.04
HS222154	GRANT Solar Pump Station	GS222154	£372.00 £437.10
HS222763	GRANT Solar GSD1 Controller	GS222763	£251.00 £294.93
HS222764	GRANT Solar GSD2 Controller	GS222764	£391.50 £460.01
HS222075	GRANT Solar Fluid 10l	GS222075	£45.00 £52.88
HS222076	GRANT Solar Fluid 20l	GS222076	£81.00 £95.18
HS222071	GRANT Expansion Vessel 18l	GS222071	£78.00 £91.65
HS222072	GRANT Expansion Vessel 25l	GS222072	£93.00 £109.28
HS222074	GRANT Expansion Vessel Pipe Connection	GS222074	£24.00 £28.20
HS222073	GRANT Expansion Vessel Bracket And Valve	GS222073	£38.00 £44.65

Code	Unico Solar Panels	Manufacturer Code	List Price £
HUUS2PKO	UNISOL U1 On Roof 2 Collector Solar Pack	US-2PK	£2,667.00 £3,133.73
HUUS2PKI	UNISOL U1 In Roof 2 Collector Solar Pack	US-2PKI	£3,000.00 £3,525.00
HUUS3PKO	UNISOL U1 On Roof 3 Collector Solar Pack	US-3PK	£3,518.86 £4,134.66
HUUS3PKI	UNISOL U1 In Roof 3 Collector Solar Pack	US-3PKI	£4,282.56 £5,032.01
HUUS4PKO	UNISOL U1 On Roof 4 Collector Solar Pack	US-4PK	£4,862.20 £5,713.09
HUUS4PKI	UNISOL U1 In Roof 4 Collector Solar Pack	US-4PKI	£5,352.43 £6,289.11



Code	Unico Solar Accessories	Manufacturer Code	List Price £
HUIHUCON	UNIHUB Control Pack	UNI-HUCON	£308.00 £361.90
HUSCASS1	UNISOL In Roof 1 Panel Cassette	US-CASS1	£403.52 £474.14
HUSCASS2	UNISOL In Roof 2 Panel Cassette	US-CASS2	£623.53 £732.65
HUSCASS3	UNISOL In Roof 3 Panel Cassette	US-CASS3	£858.55 £1,008.80
HUSCASS4	UNISOL In Roof 4 Panel Cassette	US-CASS4	£1,108.52 £1,302.51
HUUSEV19	UNISOL 19L Expansion Vessel & Brackets	US-EV19	£102.44 £120.37
HUUSEV25	UNISOL 25L Expansion Vessel & Brackets	US-EV25	£124.20 £145.94
HUUSEV40	UNISOL 40L Expansion Vessel & Brackets	US-EV40	£168.49 £197.98
HUSFTGPK	UNISOL Fittings Pack/ Stopends/Connectors	US-FTGPK	£48.89 £57.45
HUSGLYS	UNISOL 5L Glycol Unmixed	US-GLY5	£61.11 £71.80
HUUSKIT1	UNISOL First Fix Kit	US-KIT1	£172.00 £202.10
HUUSKIT2	UNISOL Second Fix Kit	US-KIT2	£430.00 £505.25
HUUSPS00	UNISOL Pump Station & Digital Controller	US-PS	£1,084.08 £1,273.79
HUSHROUD	UNISOL Double Shroud to hide pipework	US-SHROUD	£449.99 £528.74
HUHROUD3	UNISOL Triple Shroud to hide pipework	US-SHROUD3	£655.00 £769.63
HUHROUD4	UNISOL 4 Panel Shroud to hide pipework	US-SHROUD4	£1,095.00 £1,286.63
HUUSUBKT	UNISOL U1 Brackets (1 Set Per Panel)	US-UBKT	£116.67 £137.09
HUUSUI00	UNISOL U1 Flate Plate Collector 2006 x 1059	US-UI	£689.00 £809.58



Code	Glow-worm Solar Panels Packs	Manufacturer Code	List Price £
HG069470	Clearly Solar flat plate in-roof pack (1 panel)	0020069470	£912.00 £1,071.60
HG069471	Clearly Solar flat plate in-roof pack (2 panel)	0020069471	£1,314.80 £1,544.89
HG069472	Clearly Solar flat plate in-roof pack (3 panel)	0020069472	£1,755.60 £2,062.83

Fitting Facts

- You must use a qualified installer when fitting this type of technology.
- For the perfect hot water solution, use a professional design service to create schematic drawings tailored to your requirements.
- Solar systems can easily be integrated with other heating systems to meet additional heating and hot water requirements.
- The low-carbon buildings programme will provide grants for installing this technology. Visit: www.lowcarbonbuildings.org.uk
- For more information, please visit: www.greenworks-energy.co.uk or telephone our central sales office: 0800 077 8965



SOLAR ENERGY

EVACUATED TUBE SOLAR COLLECTORS – HOT WATER SOLUTIONS

Evacuated Tube Solar Collectors can be more expensive, but are amongst the most efficient. These collectors are best suited for moderate temperature applications. The Evacuated Tube Solar Collectors have selective absorbers that collect sunlight energy in vacuum-sealed tubes. Their thermal losses are very low even in cold climates.



Code	Kloben Evacuated Tube Collectors	Manufacturer Code	List Price £
HK010007	KLOBEN Solar Collector 8 Tubes CPC Diffusion Area 1.46m ² .40	101010064	£715.40 £840.60
HK010053	KLOBEN Solar Collector 21 Tubes CPC B/Gls Gross Area 3.75m ²	101010069	£1,692.30 £1,988.45
HK010054	KLOBEN Solar Collector 18 Tubes CPC B/Gls Gross Area 3.22m ²	101010054	£1,492.30 £1,753.45
HK010065	KLOBEN Solar Collector 12 Tubes CPC B/Gls Gross Area 2.16m ²	101010065	£1,038.45 £1,220.18

Code	Kloben Evacuated Tube Accessories	Manufacturer Code	List Price £
HK010291	KLOBEN Expansion Vessel 18L 10 Bar	100010291	£40.75 £47.88
HK010292	KLOBEN Expansion Vessel 24L 10 Bar	100010292	£48.45 £56.93
HK010293	KLOBEN Expansion Vessel 35L 10 Bar	100010293	£84.65 £99.46
HK010294	KLOBEN Expansion Vessel 50L 10 Bar	100010294	£130.75 £153.63
HK010295	KLOBEN Expansion Vessel 80L 10 Bar	100010295	£161.55 £189.82
HK010296	KLOBEN Expansion Vessel 105L 10 Bar	100010296	£238.45 £280.18
HK010301	KLOBEN Thermostatic Valve 30/65° Domestic Use 1in	100010480	£61.55 £72.32
HK010302	KLOBEN Thermostatic Valve 30/65° Industrial Use 1.1/4in	100010302	£653.85 £768.27
HK010030	KLOBEN Inst Kit for Tiled Roofs	101010030	£78.45 £92.18
HK010031	KLOBEN Inst Kit for Flat Roofs	101010031	£98.45 £115.68

HK010051	KLOBEN S/Stn L/Flow with Rtrn Pipe for Small & Med Plants	101010051	£358.45 £421.18
HK010034	KLOBEN Solar Station Big Flow for Big Plants	101010034	£725.40 £852.35
HK010050	KLOBEN Spec Premixed Fluid For Vacuum Systems (10Kg)	101010050	£50.00 £58.75
HK010041	KLOBEN Spec Premixed Fluid For Vacuum Systems (20Kg)	101010041	£100.00 £117.50
HK010045	KLOBEN Solar Plant Filling Pump	101010045	£761.55 £894.82
HK010297	KLOBEN 3/4in Motorized Valve 3 Port 3 Wire	101010297	£103.10 £121.14
HK010298	KLOBEN 3/4in Motorized Valve 3 Port 5 Wire	101010298	£110.00 £129.25
HK010299	KLOBEN 1in Motorized Valve 3 Port 5 Wire	101010299	£111.55 £131.07
HK011301	KLOBEN Energy Counter Kit For Small And Medium Plants	101010301	£153.85 £180.77
HK010303	KLOBEN Energy Counter Kit For Big Plants	101010303	£221.55 £260.32
HK030018	KLOBEN Solar Control Cosmet	101030036	£409.25 £480.87
HK030020	KLOBEN Solar Control Easy	101030020	£230.75 £271.13
HKSS1000	KLOBEN Solar Seal	SS1000	£12.50 £14.69



Code	Vaillant Evacuated Tube Collectors	Manufacturer Code	List Price £
HV064785	auroTHERM exclusive VTKS70 2 collector set	0020064785	£2,160.00 £2,538.00
HV064786	auroTHERM exclusive VTKS70 3 collector set	0020064786	£2,711.00 £3,185.43
HV064787	auroTHERM exclusive VTKS70 4 collector set	0020064787	£3,495.00 £4,106.63
HV064788	auroTHERM exclusive VTKS70 5 collector set	0020064788	£4,074.00 £4,786.95

Prices shown in red are inclusive of VAT



THERMOMAX



Code	Kingspan Evacuated Tube Collectors	Manufacturer Code	List Price £
HKSP0305	THERMOMAX direct flow vacuum tube 2m ² pack	TMAX-DF-2SQM	£1,212.11 £1,424.23
HKSP0310	THERMOMAX direct flow vacuum tube 3m ² pack	TMAX-DF-3SQM	£1,611.51 £1,893.52
HKSP0315	THERMOMAX direct flow vacuum tube 4m ² pack	TMAX-DF-4SQM	£2,150.14 £2,526.41
HKSP0320	THERMOMAX direct flow vacuum tube 6 m ² pack	TMAX-DF-6SQM	£2,948.95 £3,465.02
HKSP0325	THERMOMAX Heat pipe vacuum tube 2m ² pack	TMAX-HP-2SQM	£1,259.75 £1,480.21
HKSP0330	THERMOMAX Heat pipe vacuum tube 3m ² pack	TMAX-HP-3SQM	£1,682.98 £1,977.50
HKSP0335	THERMOMAX Heat pipe vacuum tube 4m ² pack	TMAX-HP-4SQM	£2,245.43 £2,638.38
HKSP0340	THERMOMAX Heat pipe vacuum tube 6m ² pack	TMAX-HP-6SQM	£3,091.88 £3,632.96

Code	Kingspan Evacuated Tube Accessories	Manufacturer Code	List Price £
HKSP0345	Controller, pump and expansion vessel	TMAX-C0179	£264.80 £311.14
HKSP0350	2m ² Manifold DF	TMAX-C0586	£198.00 £232.65
HKSP0355	3m ² Manifold DF	TMAX-C0587	£266.06 £312.62
HKSP0360	1m ² Tubes (10) DF	TMAX-C0588	£331.35 £389.34
HKSP0365	Sloping roof kit (V)	TMAX-C0590	£61.88 £72.71
HKSP0370	Sloping roof kit – 20 deg. Elevation (V)	TMAX-C0591	£120.66 £141.78
HKSP0375	Sloping metal roof fixing kit (V)	TMAX-C0592	£86.63 £101.79
HKSP0380	Sloping roof kit (H)	TMAX-C0593	£93.84 £110.26
HKSP0385	Sloping roof kit >2.5kN/m ² (V)	TMAX-C0594	£45.18 £53.09
HKSP0390	Ground/façade kit (V)	TMAX-C0595	£87.86 £103.24
HKSP0395	Surface 35-55° fixing kit >2.5kN/m ² (V)	TMAX-C0596	£68.06 £79.97
HKSP0400	Façade fixing kit (H0)	TMAX-C0597	£90.34 £106.15
HKSP0405	Surface 35-55° Fixing kit (V)	TMAX-C0599	£164.59 £193.39
HKSP0410	Sloping metal roof kit 20° Elevation	TMAX-C0621	£105.19 £123.60
HKSP0415	2m ² Manifold HP	TMAX-C0627	£198.00 £232.65
HKSP0420	3m ² Manifold HP	TMAX-C0628	£266.06 £312.62
HKSP0425	1m ² Tubes (10) HP	TMAX-C0629	£355.16 £417.31
HKSP0430	Conection kit	TMAX-C0673	£24.75 £29.08
HKSP0435	Interconnection kit	TMAX-C0674	£15.48 £18.19

Code	Baxi Evacuated Tube Collectors	Manufacturer Code	List Price £
B5130214	Solarflo 20 ETC on roof Slate & tile	5130214	£2,225.00 £2,614.38
B5130215	Solarflo 30 ETC on roof Slate & tile	5130215	£2,775.00 £3,260.63
B5130216	Solarflo 20 ETC on roof A frame	5130216	£2,275.00 £2,673.13
B5130217	Solarflo 30 ETC on roof A frame	5130217	£2,825.00 £3,319.38
B5130232	Solarflo 20 ETC façade & floor	5130232	£2,175.00 £2,555.63
B5130233	Solarflo 30 ETC façade & floor	5130233	£2,725.00 £3,201.88

Code	Baxi Evacuated Tube Accessories	Manufacturer Code	List Price £
B5130243	ADD 10 ETC Slate & tile	5130243	£825.00 £969.38
B5129980	ETC east/west array kit	5129980	£945.00 £1,110.38
B5130225	Fluid Tyfocor LS Solar 20Ltr	5130225	£60.12 £70.64
B5130234	Pump electric solar fluid fill	5130234	£295.00 £346.63
B5122761	Solar pump – fluid filling	5122761	£90.00 £105.75
B5122237	Solar sensor wire 13m	5122237	£15.45 £18.15
B5122238	Solar pipe kit – 30m accessory	5122238	£355.35 £417.54
B5122762	22mm Solar fittings – 6 Male	5122762	£36.05 £42.36
B5122763	22mm Solar fittings – 6 Female	5122763	£36.05 £42.36
B5122764	22mm Solar fittings – 6 Tee	5122764	£53.56 £62.93
B5122765	Solar relay – direct heating	5122765	£41.20 £48.41
B5119559	Solar antifreeze test kit	5119559	£195.70 £229.95



Code	Vokera Evacuated Tube Collectors	Manufacturer Code	List Price £
HV000583	Zenith Evacuated Tubes (28) Solar Package Pitched Roof (2 Panels)	583	£3,699.00 £4,346.32
HV000584	Zenith Evacuated Tubes (28) Solar Package Flat Roof (2 Panels)	584	£3,699.00 £4,346.32

SOLAR CYLINDERS

TWIN COIL CYLINDERS

Super efficient hot water cylinders for use with solar collector panels. Our range of vented and unvented cylinders work with any UK pressure requirement, and offer excellent flow rates, reliability and extremely low running costs.

Greenworks offer an extensive range of hot water cylinders to meet the requirements of any project.



Code	Worcester Greenskies Cylinders	Manufacturer Code	List Price £
HW192554	WORCESTER Greenskies 180L Cylinder	7716192554	£1,339.70 £1,574.15
HW192555	WORCESTER Greenskies 210L Cylinder	7716192555	£1,375.39 £1,616.08
HW192556	WORCESTER Greenskies 250L Cylinder	7716192556	£1,456.37 £1,711.23
HW192557	WORCESTER Greenskies 300L Cylinder	7716192557	£1,556.57 £1,828.97

Fitting Facts

- Plug-in, pre-plumbed units are available, saving extra time and providing continuity on multiple installations.
- Until installation solar cylinders should be stored in their original packaging in an upright position in an area free from excessive damp.
- For more information, visit: www.greenworks-energy.co.uk or telephone our central sales office: 0800 077 8965

There are three types available including;

- Unvented cylinders for flexible mains pressure hot water distribution to multiple points throughout the building
- Vented cylinders that offer a hot water storage solution for any pressure requirement in the UK
- Twin coil cylinders for use with solar energy systems and heat pumps

RANGE



HEATRAE SADIA

The quality name in water heating



Code	IMI Range Tribune Cylinders	Manufacturer Code	List Price £
HRTT0300	RANGE TRIBUNE HE Twin Coil Solar Cylinder 300L	TT300	£1,309.28 £1,538.40
HRTT0250	RANGE TRIBUNE HE Twin Coil Solar Cylinder 250L	TT250	£1,214.82 £1,427.41
HRTT0210	RANGE TRIBUNE HE Twin Coil Solar Cylinder 210L	TT210	£1,148.70 £1,349.72
HRTT0180	RANGE TRIBUNE HE Twin Coil Solar Cylinder 180L	TT180	£1,120.35 £1,316.41
HRTT180P	RANGE TRIBUNE HE Pre-Plumbed Duplex S/S Solar Cylinder 180L	TT180P	£1,416.07 £1,663.88
HRTT210P	RANGE TRIBUNE HE Pre-Plumbed Duplex S/S Solar Cylinder 210L	TT210P	£1,442.86 £1,695.36
HAUSD300	ALBION Ultrasteel Duplex S/S Solar Unvtd Cylinder Dir 300L	AUSD 300	£759.60 £892.53
HAUSD250	ALBION Ultrasteel Duplex S/S Solar Unvtd Cylinder Dir 250L	AUSD 250	£679.65 £798.59
HAUSD210	ALBION Ultrasteel Duplex S/S Solar Unvtd Cylinder Dir 210L	AUSD 210	£623.67 £732.81
HAUSD180	ALBION Ultrasteel Duplex S/S Solar Unvtd Cylinder Dir 180L	AUSD 180	£607.68 £714.02
HAUSI180	ALBION Ultrasteel Duplex S/S Solar Unvtd Cylinder Ind 180L	AUSI 180	£741.11 £870.80
HAUSI210	ALBION Ultrasteel Duplex S/S Solar Unvtd Cylinder Ind 210L	AUSI 210	£761.15 £894.35
HAUSI250	ALBION Ultrasteel Duplex S/S Solar Unvtd Cylinder Ind 250L	AUSI 250	£801.20 £941.41
HAUSI300	ALBION Ultrasteel Duplex S/S Solar Unvtd Cylinder Ind 300L	AUSI 300	£881.32 £1,035.55

Code	Heatrae Megalife Cylinders (Vented)	Manufacturer Code	List Price £
HH030720	HEATRAE Megalife DDV190 Solar Direct Cylinder	95030720	£1,252.13 £1,471.25
HH030721	HEATRAE Megalife DDV210 Solar Direct Cylinder	95030721	£1,280.26 £1,504.31
HH030722	HEATRAE Megalife DDV250 Solar Direct Cylinder	95030722	£1,364.68 £1,603.50
HH030723	HEATRAE Megalife DDV300 Solar Direct Cylinder	95030723	£1,491.30 £1,752.28
HH030724	HEATRAE Megalife CLV190 Solar Indirect Cylinder	95030724	£1,519.43 £1,785.33
HH030725	HEATRAE Megalife CLV210 Solar Indirect Cylinder	95030725	£1,561.65 £1,834.94
HH030726	HEATRAE Megalife CLV250 Solar Indirect Cylinder	95030726	£1,653.09 £1,942.38
HH030727	HEATRAE Megalife CLV300 Solar Indirect Cylinder	95030727	£1,814.88 £2,132.48

Code	Heatrae Megatech Cylinders (Unvented)	Manufacturer Code	List Price £
HH050410	HEATRAE Megatech DD190 Solar Direct Cylinder	95050410	£1,448.82 £1,702.36
HH050412	HEATRAE Megatech DD210 Solar Direct Cylinder	95050412	£1,510.91 £1,775.32
HH050414	HEATRAE Megatech DD250 Solar Direct Cylinder	95050414	£1,614.40 £1,896.92
HH050416	HEATRAE Megatech DD300 Solar Direct Cylinder	95050416	£1,779.99 £2,091.49
HH050411	HEATRAE Megatech CL190 Solar Indirect Cylinder	95050411	£1,655.80 £1,945.57
HH050413	HEATRAE Megatech CL210 Solar Indirect Cylinder	95050413	£1,828.28 £2,148.23
HH050415	HEATRAE Megatech CL250 Solar Indirect Cylinder	95050415	£1,945.55 £2,286.02
HH050417	HEATRAE Megatech CL3000 Solar Indirect Cylinder	95050417	£2,152.53 £2,529.22

Note: A price increase will be applied to the Heatrae Sadia product range from Feb. 09.

SANTON



Vaillant



Code	Santon Premier Plus Cylinders	Manufacturer Code	List Price £
HH050135	SANTON Premier Plus PP190E Solar Direct Cylinder	94050135	£909.00 £1,068.08
HH050136	SANTON Premier Plus PP210E Solar Direct Cylinder	94050136	£932.93 £1,096.19
HH050137	SANTON Premier Plus PP250E Solar Direct Cylinder	94050137	£1,016.65 £1,194.56
HH050138	SANTON Premier Plus PP3000E Solar Direct Cylinder	94050138	£1,136.25 £1,335.09
HH050140	SANTON Premier Plus PP190B Solar Indirect Cylinder	94050140	£1,106.35 £1,299.96
HH050141	SANTON Premier Plus PP210B Solar Indirect Cylinder	94050141	£1,136.25 £1,335.09
HH050142	SANTON Premier Plus PP250B Solar Indirect Cylinder	94050142	£1,196.06 £1,405.37
HH050143	SANTON Premier Plus PP300B Solar Indirect Cylinder	94050143	£1,315.66 £1,545.90

Code	Vaillant Aurostar Cylinders	Manufacturer Code	List Price £
HV307206	VAILLANT Aurostor Vih GB S 200 S Unvented Twin Coil Cylinder	307206	£1,287.00 £1,512.23
HV307207	VAILLANT Aurostor Vih GB S 250 S Unvented Twin Coil Cylinder	307207	£1,364.00 £1,602.70
HV307208	VAILLANT Aurostor Vih GB S 300 S Unvented Twin Coil Cylinder	307208	£1,454.00 £1,708.45

Uni Sol[®]



GRANT SOLAR



Code	Unico Unihub Cylinders	Manufacturer Code	List Price £
HUCYL180	UNISOL Indirect Twin Coil 180L Solar Cylinder	US-CYL180	£1,680.00 £1,974.00
HUCYL210	UNISOL Indirect Twin Coil 210l Solar Cylinder	US-CYL210	£1,725.00 £2,026.88
HUCYL250	UNISOL Indirect Twin Coil 250l Solar Cylinder	US-CYL250	£1,824.00 £2,143.20
HUCYL300	UNISOL Indirect Twin Coil 300l Solar Cylinder	US-CYL300	£1,965.00 £2,308.88
HUHUB200	UNI HUB Thermal Store Cylinder 200/100l Nom	UNI-HUB200	£2,856.00 £3,355.80
HUHUB270	UNI HUB Thermal Store Cylinder 270/150l Nom	UNI-HUB270	£3,080.00 £3,619.00
HUHUB360	UNI HUB Thermal Store Cylinder 360/200l Nom	UNI-HUB360	£3,500.00 £4,112.50

Code	Grant Duowave Cylinders	Manufacturer Code	List Price £
HGDW2000	GRANT Duowave Cylinder 200L	GDW200	£1,337.00 £1,570.98
HGDW2500	GRANT Duowave Cylinder 250L	GDW250	£1,456.00 £1,710.80
HGDW3000	GRANT Duowave Cylinder 300L	GDW300	£1,515.00 £1,780.13
HGDW4000	GRANT Duowave Cylinder 400L	GDW400	£2,004.00 £2,354.70



HK040090	KLOBEN Cylinder Series Puffer Speicher 800L – 1 Coil	101040090	£1,538.45 £1,807.68
HK040091	KLOBEN Cylinder Series Puffer Speicher 1000L – 1 Coil	101040091	£1,715.40 £2,015.60
HK040092	KLOBEN Cylinder Series Puffer Speicher 1500L – 1 Coil	101040092	£2,461.55 £2,892.32
HK040093	KLOBEN Cylinder Series Puffer Speicher 2000L – 1 Coil	101040093	£2,726.95 £3,204.17
HK040101	KLOBEN 2 Coil V/FD Cyl 300L Ntt300 With Station & Easy Cntrl	101040101	£1,761.55 £2,069.82
HK050007	KLOBEN Total Energy 500L Combined UFH and Hot Water KIT	101050160	£6,088.45 £7,153.93
HK050008	KLOBEN Total Energy 800L Combined UFH and Hot Water KIT	101050161	£8,189.25 £9,622.37
HK050017	KLOBEN Grand Soleil System 200L KIT without Cylinder	101050301	£2,433.85 £2,859.77
HK050019	KLOBEN Grand Soleil System 300L KIT without Cylinder	101050302	£2,993.85 £3,517.77
HK050023	KLOBEN Grand Soleil System 500L KIT without Cylinder	101050303	£3,966.95 £4,661.17
HK050029	KLOBEN Grand Soleil System 750L KIT	101050180	£8,001.55 £9,401.82
HK050031	KLOBEN Grand Soleil System 1000L KIT	101050181	£9,915.40 £11,650.60
HK050049	KLOBEN Grand Soleil NTT 300L System BI Station and Control KIT	101050100	£3,711.55 £4,361.05
HK050065	KLOBEN Total Energy 1000L Combined UFH and Hot Water KIT	101050190	£10,215.40 £12,003.10
HK050069	KLOBEN NRG 600L Combined UFH and Hot Water Hard Water KIT	101050151	£6,088.45 £7,153.93

Code	Kloben Cylinders	Manufacturer Code	List Price £
HK040022	KLOBEN Vitrified Cylinder 1500L Twin Coil	101040038	£4,269.25 £5,016.37
HK040023	KLOBEN Vitrified Cylinder 2000L Twin Coil	101040039	£5,423.10 £6,372.14
HK040024	KLOBEN Vitrified Cylinder 750L Twin Coil	101040024	£2,288.45 £2,688.93
HK040025	KLOBEN Vitrified Cylinder 1000L Twin Coil	101040025	£2,646.15 £3,109.23
HK040026	KLOBEN Combined Tank SSP Solar 500L Sanitary Coil 45L	101040026	£2,123.10 £2,494.64
HK040027	KLOBEN Combined Tank SSP Solar 800L Sanitary Coil 55L	101040027	£2,769.25 £3,253.87
HK040028	KLOBEN Combined Tank SSP Solar 1000L Sanitary Coil 55L	101040028	£2,953.85 £3,470.77
HK040029	KLOBEN Combined Tank SSP Solar 1500L Sanitary Coil 70L	101040029	£3,757.70 £4,415.30
HK040030	KLOBEN Combined Tank SSP Solar 2000L Sanitary Coil 90L	101040030	£4,569.25 £5,368.87
HK040046	KLOBEN Combined Tank Ssp Solar 3000L Sanitary Coil 95L	101040046	£5,550.00 £6,521.25
HK040089	KLOBEN Cylinder Series Puffer Speicher 500L – 1 Coil	101040089	£1,230.75 £1,446.13



ENERGY EFFICIENT BOILERS

By recovering and using heat that would otherwise be lost, high-efficiency or condensing boilers use less gas to produce the same amount of heat as standard boilers. With different outputs available to suit a variety of buildings, we offer a full range of state-of-the-art high-efficiency boilers from leading manufacturers.



Code	Worcester Bosch Efficient Boilers	Manufacturer Code	List Price £
HTWB0143	Greenstar 12i System	7716130143	£982.03 £1,153.89
HTWB0144	Greenstar 24i System	7716130144	£1,063.37 £1,249.46
HTWB0137	Greenstar 12Ri	7716130137	£907.34 £1,066.12
HW130153	Greenstar 15Ri	7716130153	£947.24 £1,113.01
HW130155	Greenstar 18Ri	7716130155	£1,014.33 £1,191.84
HTWB0138	Greenstar 24Ri	7716130138	£1,081.40 £1,270.65
HTWB1895	Greenstar 30CDi Conventional	7712331895	£1,150.44 £1,351.77
HTWB1894	Greenstar 40CDi Conventional	7712231636	£1,787.05 £2,099.78
HW331893	Greenstar 30CDi System	7712331893	£1,170.23 £1,375.02



Code	Vokera Efficient Boilers	Manufacturer Code	List Price £
HV000886	Mynute VHE 20 Open Vented System (Regular)	886	£962.00 £1,130.35
HV000876	Mynute HE 25 Sealed System	876	£1,077.00 £1,265.48
HV000878	Mynute HE 30 Sealed System	878	£1,143.00 £1,343.03
HV000880	Mynute HE 35 Sealed System	880	£1,227.00 £1,441.73
HV000912	Unica HE 32 Combi Boiler	912	£1,244.00 £1,461.70
HV000914	Unica HE 36 Combi Boiler	914	£1,403.00 £1,648.53
HTVK0836	Linea HE 32 Combi Boiler	836	£1,320.00 £1,551.00
HTVK0837	Linea HE 36 Combi Boiler	837	£1,455.00 £1,709.63
HTVOK852	Compact HE 29 Combi Boiler	852	£998.00 £1,172.65
HV000892	Compact HE 35 Combi Boiler	892	£1,091.00 £1,281.93



What are the key benefits?

- High-efficiency or condensing boilers use less gas to produce the same amount of heat as standard boilers
- Easy-to-install, they will fit with your existing radiators or underfloor heating
- Efficiency can be improved even further with digital heating controls by matching the temperature more closely to your needs – reducing waste
- Replacing a boiler that is over 10 years old with a high-efficiency boiler could save you up to £250.00 a year on your gas bill

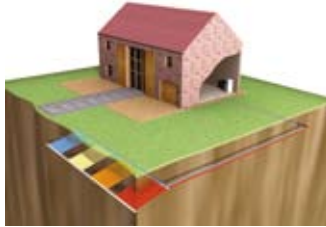
This is a small sample of our Boiler offer. Talk to your local branch about other options.

GROUND SOURCE HEAT PUMPS

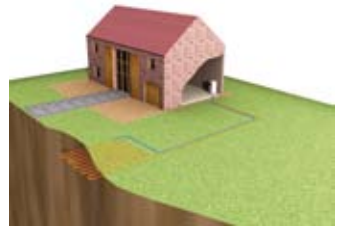
Ground Source Heat Pumps use solar energy naturally stored in soil, bedrock and groundwater as a heat source. They do require electricity to operate, but efficiently produce up to five times as much heat energy for every unit of electricity they use. The range comprises suitable products for a variety of buildings and heating requirements.



Borehole Collector



Compact Collector



Horizontal Ground Collector

Where can they be used?

There are a number of types of ground source heat pumps available to suit the heating requirement of any building, whether it's a new build or existing. They can also be installed almost anywhere, providing there is sufficient space to lay ground loops or drill a bore hole.

What are the key benefits?

- Extremely energy efficient – producing up to five times more heat for every unit of electricity used
- Environmentally friendly – a typical unit can save up to 2 tonnes of CO₂ per year
- Maintenance free
- Operates at 225% efficiency when heating domestic hot water (compared to 100% for electric immersion heaters and 85% for gas boilers)
- Designed to achieve 400% efficiency with radiators and underfloor heating systems



Installing a ground source heat pump

- A GSHP can be installed with a horizontal collector, lengths of pipe are buried underground to a depth of around 1 to 2 metres
- Alternatively, a vertical collector can be used, requiring a bore hole to be drilled to a depth of around 50m to 200m and the collector is fed into the hole
- Electrical and plumbing installation is straightforward. It requires only a 240V mains supply and a simple flow and return connections to internal and external water circuits

Fitting Facts

- *You must use a qualified installer when fitting this type of technology.*
- *Use a professional design service to create schematic drawings tailored to your requirements.*
- *GSHPs work very effectively with underfloor heating (page 34).*
- *For more information, visit: www.greenworks-energy.co.uk or telephone our central sales office: 0800 077 8965*



Code	NIBE GSHPs	Manufacturer Code	List Price £
HN665001	NIBE Fighter 1140-5kW Heat Pumps Geothermal Heating 1-P 230V	665001	£6,132.90 £7,206.16
HN665130	NIBE Fighter 1240-5kW Heat Pumps Geothermal Heating 1-P 230V	665130	£6,353.80 £7,465.72
HN665020	NIBE Fighter 1140-8kW Heat Pumps Geothermal Heating 1-P 230V	665020	£6,483.95 £7,618.64
HN665131	NIBE Fighter 1240-8kW Heat Pumps Geothermal Heating 1-P 230V	665131	£6,726.50 £7,903.64
HN665021	NIBE Fighter 1140-12kW Heat Pumps Geothermal Heating 1-P 230V	665021	£6,869.95 £8,072.19
HN665132	NIBE Fighter 1240-12kW Heat Pumps Geothermal Heating 1-P 230V	665132	£7,096.55 £8,338.45
HN665006	NIBE Fighter 1140-15kW Heat Pumps Geothermal Heating 3-P 400V	665006	£7,303.95 £8,582.14
HN665007	NIBE Fighter 1140-17kW Heat Pumps Geothermal Heating 3-P 400V	665007	£7,773.00 £9,133.28
HN065017	NIBE Fighter 1330-22kW Heat Pumps Geothermal Heating 3-P 400V	065017	£9,974.30 £11,719.80
HN065013	NIBE Fighter 1330-30kW Heat Pumps Geothermal Heating 3-P 400V	065013	£10,843.15 £12,740.70
HN065008	NIBE Fighter 1330-40kW Heat Pumps Geothermal Heating 3-P 400V	065008	£11,588.30 £13,616.25

Code	NIBE Accessories	Manufacturer Code	List Price £
HN648001	NIBE Geothermal Probe Pem 40mm x 2.4mm Pipe (2*50m)	648001	£140.65 £165.26
HN648004	NIBE Geothermal Probe Pem 40mm x 2.4mm Pipe (2*80m)	648004	£225.00 £264.38
HN648006	NIBE Geothermal Probe Pem 40mm x 2.4mm Pipe (2*100m)	648006	£281.55 £330.82
HN648011	NIBE Geothermal Probe Pem 40mm x 2.4mm Pipe (2*150m)	648011	£421.85 £495.67
HN659917	NIBE Top Parts for Geothermal Probe Rubber Hood P/S 138-168mm	659917	£108.90 £127.96
HN659880	NIBE Top Parts for Geothermal Probe Round Bottom Weight	659880	£54.65 £64.21
HN642819	NIBE Geothermal Ground Collector Pem 40mm x 2.4mm Pipe (250m)	642819	£326.60 £383.76
HN641519	NIBE Geothermal Ground Collector Pem 40mm x 2.4mm Pipe (300m)	641519	£392.00 £460.60
HN642919	NIBE Geothermal Ground Collector Pem 40mm x 2.4mm Pipe (400m)	642919	£522.55 £614.00
HN018230	NIBE Geothermal Ground Collector Collector Spool	018230	£1,296.00 £1,522.80
HN088207	NIBE UKV 100 Buffer Tanks	088207	£180.50 £212.09
HN080300	NIBE UKV 200 Buffer Tanks	080300	£410.70 £482.57
HN080301	NIBE UKV 300 Buffer Tanks	080301	£565.40 £664.35
HN080302	NIBE UKV 500 Buffer Tanks	080302	£681.40 £800.65
HN080177	NIBE AKIL 500 Buffer Tank	080177	£1,426.55 £1,676.20
HN080189	NIBE ASIL 500 Buffer Tank	080189	£875.50 £1,028.71
HN088712	NIBE VPA 300/200 Heat Pump Double Jacket Accumulation Tank	088712	£1,428.60 £1,678.61
HN088662	NIBE VPA 450/300 Heat Pump Double Jacket Accumulation Tank	088662	£2,106.20 £2,474.79
HN087720	NIBE VPAS 300/450 S/Coil Heat Pump Double Jacket Accumulation Tank	087720	£2,490.25 £2,926.04
HN210414	NIBE Compression Fitting Male Adaptor 40mm x 1 1/4	511040E	£9.30 £10.93
HN310414	NIBE Compression Fitting Female Adaptor 40mm x 1 1/4	601040E	£9.85 £11.57
HN210412	NIBE Compression Fitting Female Adaptor 40mm x 1 1/2	601040F	£9.85 £11.57
HN410400	NIBE Compression Fitting Coupling 40mm x 40mm	5100400	£10.65 £12.51
HN610400	NIBE Compression Fitting 90° Tee 40mm x 40mm x 40mm	5140400	£19.60 £23.03
HN910400	NIBE Compression Fitting 90° Elbow 40mm x 40mm	5130400	£14.15 £16.63



HN171040	NIBE Compression Fitting End Cap 40mm	5210400	£10.75 £12.63
HNVS116P	NIBE Compression Fitting Valve With Quick joint	T305.040E	£20.65 £24.26
HN089152	NIBE VST 11 Three Way Hot Water Control Valve Accessory	089152	£112.30 £131.95
HN089388	NIBE VST 20 Three Way Hot Water Control Valve Accessory	089388	£206.64 £242.80
HN089375	NIBE Expansion Card 1 Accessory	089375	£447.50 £525.81
HN089376	NIBE Expansion Card 2 Accessory	089376	£447.42 £525.72
HN089368	NIBE Brine Filling Unit Max 12kW Accessory	089368	£154.25 £181.24
HN089971	NIBE Brine Filling Unit Max 30kW Accessory	089971	£233.00 £273.78
HN089317	NIBE Extra Shunt Group Accessory	089317	£367.08 £431.32
HN022077	NIBE Threaded Adapter Flanges For SP Accessory	022077	£105.55 £124.02
HN018286	NIBE Thermostat Limiter Accessory	018286	£126.25 £148.34
HN018084	NIBE lu 34 3kW Immersion Heater (Requires K11) Accessory	018084	£78.80 £92.59
HN018088	NIBE lu 39 6kW Immersion Heater (Requires K11) Accessory	018088	£85.75 £100.76
HN018090	NIBE lu 311 9kW Immersion Heater (Requires K11) Accessory	018090	£69.70 £81.90
HN018893	NIBE Junction Box K11 Accessory	018893	£117.50 £138.06
HN418366	NIBE RT 10 Room Thermostat Accessory	418366	£70.00 £82.25
HN018433	NIBE RG 10 Room Sensor Accessory	018433	£62.30 £73.20
HN418380	NIBE Thermostat and Thermal Cut Out LG Rac13.3-2533 Accessory	418380	£117.40 £137.95
HN067015	NIBE Pool 11 Accessory	067015	£228.70 £268.72
HN064006	NIBE Pool 20 Accessory	064006	£206.64 £242.80
HN018451	NIBE Power Selector Switch 0.3-0.6kW Accessory	018451	£55.40 £65.10
HN089423	NIBE HR10 Relay Module Accessory	089423	£152.88 £179.63
HN951660	NIBE Specialist Antifreeze 25L	951660	£86.00 £101.05
HN951665	NIBE Brine Filling Machine	951665	£690.00 £810.75
HN089259	NIBE Control Module Smo 10 Outdoor Air Heat Pumps Accessory	089638	£706.00 £829.55
HN089398	NIBE PKM 20 Passive Cooling Module Heat Pumps Accessory	089398	£1,980.75 £2,227.38
HN089304	NIBE FLM 40 Brackets Heat Pumps Accessory	089304	£100.25 £117.79
HN089389	NIBE HPAC 28 Cooling Equipment Heat Pumps Accessory	089389	£1,968.33 £2,312.79
HN089265	NIBE HPAC 42 Cooling Equipment Heat Pumps Accessory	089265	£2,076.48 £2,439.86
HN089397	NIBE PKM 10 Passive Cooling Module Heat Pumps Accessory	089397	£1,425.50 £1,674.96

Code	Worcester GSHPs	Manufacturer Code	List Price £
HW180009	WORCESTER Greenstore 6 System	7716180009	£4,591.48 £5,394.99
HW180010	WORCESTER Greenstore 7 System	7716180010	£4,887.97 £5,743.36
HW180011	WORCESTER Greenstore 9 System	7716180011	£5,184.47 £6,091.75
HW180012	WORCESTER Greenstore 11 System	7716180012	£5,629.19 £6,614.30
HW180013	WORCESTER Greenstore 6 Combi	7716180013	£5,332.70 £6,265.92
HW180014	WORCESTER Greenstore 7 Combi	7716180014	£5,629.19 £6,614.30
HW180015	WORCESTER Greenstore 9 Combi	7716180015	£5,927.06 £6,964.30
HW180016	WORCESTER Greenstore 11 Combi	7716180016	£6,370.42 £7,485.24

Code	Worcester Accessories	Manufacturer Code	List Price £
HW180017	WORCESTER Greenstore 180 Cylinder	7716180017	£1,533.24 £1,801.56
HW180018	WORCESTER Greenstore 280 Cylinder	7716180018	£1,887.38 £2,217.67
HW192418	WORCESTER 100L Primary Water Storage Tank	7716192418	£469.45 £551.60



Code	Unico GSHPs	Manufacturer Code	List Price £
HUT12HW1	UNITHERM GSHP 12kW Single Phase Heating/Hotwater	UT-12HW1	£6,685.00 £7,854.88
HUT12HW3	UNITHERM GSHP 12kW Three Phase Heating/Hotwater	UT-12HW3	£6,685.00 £7,854.88
HU12HWC1	UNITHERM GSHP 12kW Single Phase Heating/Hotwater/Cooling	UT-12HWC1	£7,444.00 £8,746.70
HU12HWC3	UNITHERM GSHP 12kW Three Phase Heating/Hotwater/Cooling	UT-12HWC3	£7,444.00 £8,746.70
HUT12HX3	UNITHERM GSHP 12kW Three Phase Heating/DX Cooling	UT-12HX3	£7,444.00 £8,746.70
HUT12KW1	UNITHERM GSHP 12kW Single Phase Heating/DX Cooling	UT-12KW1	£7,444.00 £8,746.70
HUT18HW3	UNITHERM GSHP 18kW Three Phase Heating/Hotwater	UT-18HW3	£7,840.00 £9,212.00
HU18HWC3	UNITHERM GSHP 18kW Three Phase Heating/Hotwater/Cooling	UT-18HWC3	£8,662.00 £10,177.85
HUT18HX3	UNITHERM GSHP 18kW Three Phase Heating/DX Cooling	UT-18HX3	£8,662.00 £10,177.85
HUT24HW3	UNITHERM GSHP 24kW Three Phase Heating/Hotwater	UT-24HW3	£9,362.00 £11,000.35
HU24HWC3	UNITHERM GSHP 24kW Three Phase Heating/Hotwater/Cooling	UT-24HWC3	£10,447.00 £12,275.23
HUT24HX3	UNITHERM GSHP 24kW Three Phase Heating/DX Cooling	UT-24HX3	£10,447.00 £12,275.23
HUT35HW3	UNITHERM GSHP 35kW Three Phase Heating/Hotwater	UT-35HW3	£12,932.00 £15,195.10
HU35HWC3	UNITHERM GSHP 35kW Three Phase Heating/Hotwater/Cooling	UT-35HWC3	£14,490.00 £17,025.75
HUT35HX3	UNITHERM GSHP 35kW Three Phase Heating/DX Cooling	UT-35HX3	£14,490.00 £17,025.75
HUUT8HW1	UNITHERM GSHP 7.5kW Single Phase Heating/Hotwater	UT-8HW1	£6,545.00 £7,690.38
HUT8HWC1	UNITHERM GSHP 7.5kW Single Phase Heating/Hotwater/Cooling	UT-8HWC1	£7,245.00 £8,512.88

Code	Baxi GSHP	Manufacturer Code	List Price £
B5119961	Baxi Geoflo 4kW – LH Manifold Ground Array Kit	5119961	£950.00 £1,116.25
B5119962	Baxi Geoflo 4kW – RH Manifold Ground Array Kit	5119962	£950.00 £1,116.25
B5119486	Baxi Geoflo 4kW – Heat Pump incl Antifreeze Kit	5119486	£4,700.00 £5,522.50
B5119963	Baxi Geoflo 6kW – LH Manifold Ground Array Kit	5119963	£1,680.00 £1,974.00
B5119964	Baxi Geoflo 6kW – RH Manifold Ground Array Kit	5119964	£1,680.00 £1,974.00
B5119487	Baxi Geoflo 6kW – Heat Pump incl Antifreeze Kit	5119487	£5,220.00 £6,133.50
B5119965	Baxi Geoflo 8kW – LH Manifold Ground Array Kit	5119965	£1,860.00 £2,185.50
B5119966	Baxi Geoflo 8kW – RH Manifold Ground Array Kit	5119966	£1,860.00 £2,185.50
B5119488	Baxi Geoflo 8kW – Heat Pump incl Antifreeze Kit	5119488	£5,540.00 £6,509.50
B5119967	Baxi Geoflo 10kW – LH Manifold Ground Array Kit	5119967	£2,080.00 £2,444.00
B5119968	Baxi Geoflo 10kW – RH Manifold Ground Array Kit	5119968	£2,080.00 £2,444.00
B5119489	Baxi Geoflo 10kW – Heat Pump incl Antifreeze Kit	5119489	£5,870.00 £6,897.25
B5119969	Baxi Geoflo 12kW – LH Manifold Ground Array Kit	5119969	£2,680.00 £3,149.00
B5119970	Baxi Geoflo 12kW – RH Manifold Ground Array Kit	5119970	£2,680.00 £3,149.00
B5119490	Baxi Geoflo 12kW – Heat Pump incl Antifreeze Kit	5119490	£8,520.00 £10,011.00
B5119971	Baxi Geoflo 16kW – LH Manifold Ground Array Kit	5119971	£3,520.00 £4,136.00
B5119972	Baxi Geoflo 16kW – RH Manifold Ground Array Kit	5119972	£3,520.00 £4,136.00
B5119491	Baxi Geoflo 16kW – Heat Pump incl Antifreeze Kit	5119491	£8,880.00 £10,434.00
B5119973	Baxi Geoflo 20kW – LH Manifold Ground Array Kit	5119973	£4,850.00 £5,698.75
B5119974	Baxi Geoflo 20kW – RH Manifold Ground Array Kit	5119974	£4,850.00 £5,698.75
B5119492	Baxi Geoflo 20kW – Heat Pump incl Antifreeze Kit	5119492	£9,150.00 £10,751.25



Code	Dimplex GSHPs	Manufacturer Code	List Price £
HD0S15ME	DIMPLEX Ground Source Heat Pump – Single Phase	S15ME	£3,589.00 £4,217.08
HD0S17ME	DIMPLEX Ground Source Heat Pump – Single Phase	S17ME	£3,607.24 £4,238.51
HD0S19ME	DIMPLEX Ground Source Heat Pump – Single Phase	S19ME	£3,727.41 £4,379.71
HDI11MEK	DIMPLEX Ground Source Heat Pump – Single Phase/Integrated	S111MEK	£5,942.65 £6,982.61
HDI16MEK	DIMPLEX Ground Source Heat Pump – Single Phase/Integrated	S116MEK	£6,656.17 £7,821.00
HDS111ME	DIMPLEX Ground Source Heat Pump – Single Phase	S111ME	£3,729.26 £4,381.88
HDS114ME	DIMPLEX Ground Source Heat Pump – Single Phase	S114ME	£4,936.02 £5,799.82

Code	Dimplex GSHP Accessories	Manufacturer Code	List Price £
HDP900UK	DIMPLEX 500L DHW Cylinder – G3 Approved	WWSP900UK	£1,634.27 £1,920.27
HDP880UK	DIMPLEX 400L DHW Cylinder – G3 Approved	WWSP880UK	£1,513.33 £1,778.16
HD442EUK	DIMPLEX 400L DHW Cylinder – G3 Approved	WWSP442EUK	£1,784.33 £2,096.59
HDP332UK	DIMPLEX 300L DHW Cylinder – G3 Approved	WWSP332UK	£1,426.81 £1,676.50
HDSP229E	DIMPLEX 200L DHW Cylinder	WWSP229E	£1,202.41 £1,412.83
HD0WMM25	DIMPLEX Heat Circuit/ Hot Water Module	WWM25	£153.83 £180.75
HD0VTB25	DIMPLEX Manifold Bar	VTB25	£198.35 £233.06
HD0VSWKS	DIMPLEX VSW KS DHW Cylinder Connection Hose	VSWKS	£214.71 £252.28
HDSPKSHP	DIMPLEX Cooling Station Connection Hose	VSPKSHP	£324.64 £381.45
HD0VSHKS	DIMPLEX VSH KS HP/Buffer Tank Connection Hose	VSHKS	£203.54 £239.16
HD0VSHBS	DIMPLEX VSH BS Manifold Connection Hose	VSHBS	£73.06 £85.85
HD00UP80	DIMPLEX UP80 Grundfos Circulating Pump	UP80	£254.93 £299.54
HDUP7032	DIMPLEX UP70-32 Grundfos Circulating Pump	UP70-32	£139.89 £164.37

HD00UP60	DIMPLEX UP60 Grundfos Circulating Pump	UP60	£87.85 £103.22
HDTUE440	DIMPLEX Connection Accessory For AS 976-1	TUE440	£13.90 £16.33
HDTPWVPM	DIMPLEX Dew Point Monitor	TPWVPM	£34.31 £40.31
HDTPF341	DIMPLEX Dew Point Sensor	TPF341	£18.61 £21.87
HDSZB700	DIMPLEX Brine Circuit Package	SZB700	£747.81 £878.68
HDSZB690	DIMPLEX Brine Circuit Package	SZB690	£451.96 £531.05
HDSZB680	DIMPLEX Brine Circuit Package	SZB680	£451.96 £531.05
HDSYL250	DIMPLEX Sound Insulation Strips	SYL250	£25.31 £29.74
HDSVT400	DIMPLEX Brine Manifold 4 circuit	SVT400	£180.74 £212.37
HDSVT300	DIMPLEX Brine Circuit Manifold	SVT300	£142.30 £167.20
HDSVT200	DIMPLEX Brine Circuit Manifold	SVT200	£102.32 £120.23
HD0SST25	DIMPLEX Solar Station Manifold	SST25	£866.82 £1,018.51
HDHT9754	DIMPLEX Connection Accessory For AS 976-1	SCHT975-4	£16.25 £19.09
HDSAS110	DIMPLEX Heating Water Connection hose	SAS110	£120.29 £141.34
HDSAS100	DIMPLEX Heating Water Connection Hose	SAS100	£84.80 £99.64
HDRTK501	DIMPLEX Thermostat for Room Heating/Cooling	RTK501	£74.44 £87.47
HDRSG600	DIMPLEX Rain Guard for L511MSR	RSG600	£137.41 £161.46
HDRSG500	DIMPLEX Rain Guard for L18MS	RSG500	£118.29 £138.99
HDRKSWPM	DIMPLEX Temp/ Humidity Controller	RKSWPM	£94.61 £111.17
HDS332UK	DIMPLEX Combination 100L Buffer & 300L DHW – G3 Approved	PWS332UK	£1,907.50 £2,241.31
HDPSW500	DIMPLEX 500L Buffer Tank	PSW500	£591.45 £694.95
HDPSW200	DIMPLEX 200L Buffer Tank	PSW200	£360.07 £423.08
HDPSW100	DIMPLEX 100L Buffer Tank	PSW100	£289.08 £339.67
HDSP140E	DIMPLEX 140L Under Buffer Tank for LI 11 ME/LI 11/16/20	TEPS140E	£846.98 £995.20





HD0EBKPV	DIMPLEX Expansion Module Manifold	EBKPV	£80.16 £94.19
HDDMK600	DIMPLEX Sealing Collar for LI11MS/R	DMK600	£123.52 £145.14
HDDMK500	DIMPLEX Sealing Collar for LI8MS	DMK500	£72.98 £85.75
HDTHK633	DIMPLEX 4.5kW Immersion Element	CTHK633	£123.05 £144.58
HDTHK632	DIMPLEX 2.9kW Immersion Element	CTHK632	£120.92 £142.08
HDTHK631	DIMPLEX 2.0kW Immersion Element	CTHK631	£108.67 £127.69
HDAS9761	DIMPLEX Heat Pump to Heating System Connection Hose 10m	AS976-1	£219.60 £258.03
HD0AS976	DIMPLEX Heat Pump to Heating System Connection Hose 10m	AS976	£88.06 £103.47
HD0APSVT	DIMPLEX Brine Manifold Connecting Kit	APSVT	£81.34 £95.57
HDAFN825	DIMPLEX 20L Anti Freeze	AFN825	£67.19 £78.95
HDAFN824	DIMPLEX 200L Anti Freeze	AFN824	£616.14 £723.96

calorex
World Leaders in Heat Pump Technology



HDSP100E	DIMPLEX 100L Buffer Tank For SI MEK & SI ME	PSP100E	£592.88 £696.63
HD0PKS25	DIMPLEX 5kW Passive Cooling Station c/w Cooling Controller	PKS25	£1,892.16 £2,223.29
HD0NTC10	DIMPLEX Temperature Sensor for WPM 2007 Controller	NTC-10	£11.10 £13.04
HDRMNTC2	DIMPLEX Temperature Sensor for WPM 2006 Controller	NORMNTC-2	£10.44 £12.27
HD0MMH25	DIMPLEX Heating Circuit + Mixing Valve	MMH25	£319.75 £375.71
HDLKL600	DIMPLEX Long Duct for LI11MSR	LKL600	£203.42 £239.02
HDLKL500	DIMPLEX Long Duct for LI8MS	LKL500	£182.08 £213.94
HDLKK600	DIMPLEX Short Duct for LI11MSR	LKK600	£156.10 £183.42
HDLKK500	DIMPLEX Short Duct for LI8MS	LKK500	£145.91 £171.44
HDLKB600	DIMPLEX Elbow Duct for LI11MSR	LKB600	£228.38 £268.35
HDLKB500	DIMPLEX Elbow Duct for LI8MS	LKB500	£217.28 £255.30
HD0KPV25	DIMPLEX Compact Manifold	KPV25	£298.94 £351.25
HDFLHU70	DIMPLEX 2/2.7/4kW Immersion Element	FLHU70	£252.04 £296.15
HDFLH25M	DIMPLEX 2.5kW Immersion Element	FLH25M	£146.33 £171.94
HDFG3115	DIMPLEX Outside Temperature Sensor	FG3115	£22.65 £26.61
HD0FA550	DIMPLEX Return Flow Sensor	FA550	£25.29 £29.72
HDEVL998	DIMPLEX 30m Connector Cable	EVL998	£78.96 £92.78
HDEVL997	DIMPLEX 20m Connector Cable	EVL997	£59.59 £70.02
HDEVL996	DIMPLEX 10m Connector Cable	EVL996	£44.80 £52.64

Code	Calorex GSHPs	Manufacturer Code	List Price £
HC449003	CALOREX WW3500 Ground Source Heat Pump	449003	£3,946.00 £4,636.55
HC449004	CALOREX WW5000 Ground Source Heat Pump	449004	£4,200.00 £4,935.00
HC506701	CALOREX WW8000 Ground Source Heat Pump	506701	£5,076.00 £5,964.30
HC506901	CALOREX WW12000 Ground Source Heat Pump	506901	£5,645.00 £6,632.88

Prices shown in red are inclusive of VAT

AIR SOURCE HEAT PUMPS

Converts the outside air temperature and energy into heat, giving a comfortable temperature inside the home and reducing heating costs by on average 50% compared to traditional systems. Exhaust Air Heat Pumps provide hygienic air inside the home, whilst capturing heat energy from lighting, people and domestic appliances, and recycling it.

Where can they be used?

Air source heat pumps are ideal for use where it is not possible to drill a borehole or lay surface absorbers for a ground source heat pump. They are generally used to complement more traditional heating systems, and typically deliver up to 80% of the space heating and hot water requirements for a building, while the traditional system delivers the balance on the coldest days or during peak demand. They can be used with underfloor heating systems and radiators. An additional back-up heating system will be required.

What are the key benefits?

- They can reduce your energy consumption for heating by up to 50%
- They are very energy efficient – producing up to four times more heat energy than the electricity required to operate the pump
- It is possible to extract considerable energy from the air at temperatures as low as -15°C
- They are much cheaper and less disruptive to install than ground source heat pumps



Installing an ASHP

- ASHPs are suitable for installation either in a new build or integrated into an existing building with a traditional heating system
- The only consideration for the positioning of the pump outside is proximity to the building
- It should be as close as possible to the building to prevent heat loss

Fitting Facts

- *You must use a qualified installer when fitting this type of technology.*
- *Use a professional design service to create schematic drawings tailored to your requirements.*
- *ASHPs can easily be integrated with other heating systems to meet additional heating and hot water requirements. They work very effectively with underfloor heating (page 34).*
- *For more information, visit: www.greenworks-energy.co.uk or telephone our central sales office: 0800 077 8965*



Code	Trianco ASHPs	Manufacturer Code	List Price £
HT009003	TRIANCO Activair S300	9003	£1,043.15 £1,225.70
HT009005	TRIANCO Activair S500	9005	£1,193.25 £1,402.07
HT009012	TRIANCO Activair S120	9012	£2,844.28 £3,342.03




Code	Worcester Air to Water Heat Pumps	Manufacturer Code	List Price £
HW150008	Greensource 6kW Air to Water Heat Pump Kit	7716 150 008	£4,795.00 £5,634.13
HW150009	Greensource 7kW Air to Water Heat Pump Kit	7716 150 009	£4,995.00 £5,869.13
HW150010	Greensource 9.5kW Air to Water Heat Pump Kit	7716 150 010	£5,395.00 £6,339.13

Code	NIBE ASHPs	Manufacturer Code	List Price £
HN064004	NIBE Fighter 2005-8 Heat Pumps Outdoor Air Heating 1-P 230V	064004	£5,615.40 £6,598.10
HN064005	NIBE Fighter 2005-11 Heat Pumps Outdoor Air Heating 1-P 230V	064005	£5,743.50 £6,748.61
HN064019	NIBE Fighter 2025-14 Heat pumps Outdoor Air Heating 3-p 400V (New)	064019	£6,300.00 £7,402.50

Code	NIBE ASHP Accessories	Manufacturer Code	List Price £
HN069019	NIBE VVM300CUUK Electric Supplementary Heater with Cylinder	069019	£2,800.00 £3,290.00



Code	Calorex ASHPs	Manufacturer Code	List Price £
HC535001	CALOREX AW4500 Air Source Heat Pump	535001	£3,785.00 £4,447.38
HC535002	CALOREX AW9000 Air Source Heat Pump	535002	£5,198.00 £6,107.65
HC535003	CALOREX AW12000 Air Source Heat Pump	535003	£5,883.00 £6,912.53



Code	Dimplex Outdoor Air Source Heat Pump	Manufacturer Code	List Price £
HDLA11MS	LA 11 MS outdoor air/water heat pump single phase	LA 11 MS	£6,077.14 £7,140.64
HDLA16MS	LA 16 MS outdoor air/water heat pump single phase	LA 16 MS	£7,579.39 £8,905.78
HDLA20AS	LA 20 AS outdoor air/water heat pump three phase	LA 20 AS	£8,305.91 £9,759.44
HDLA24AS	LA24 AS outdoor air/water heat pump three phase	LA 24 AS	£9,201.98 £10,812.33
HDLA28AS	LA 28 AS outdoor air/water heat pump three phase	LA 28 AS	£9,517.63 £11,183.22
HDLA06MR	LA 6 MR outdoor air/water heat pump single phase, integrated, reversible	LA 6 MR	£4,485.73 £5,270.73
HDLA08MR	LA 8 MR outdoor air/water heat pump single phase, integrated, reversible	LA 8 MR	£4,675.82 £5,494.09
HDLA10MR	LA 10 MR outdoor air/water heat pump single phase, integrated, reversible	LA 10 MR	£4,721.93 £5,548.27

Dimplex



Code	Dimplex Indoor Air Source Heat Pump	Manufacturer Code	List Price £
HDLI8MEK	LI 8 MEK indoor air/water heat pump single phase, integrated	LI 8 MEK	£6,793.01 £7,981.79
HDLI11ME	LI 11 ME indoor air/water heat pump single phase	LI 11 ME	£5,514.60 £6,479.66
HDLI11TE	LI 11 TE indoor air/water heat pump three phase	LI 11 TE	£5,514.60 £6,479.66



AIR SOURCE HEAT PUMPS

Exhaust Air Heat Pump units extract air via ductwork connected to the warm areas of the building such as bathrooms, kitchens and utility rooms. Heat is taken from the air and transferred into the heat pump's refrigerant circuit before being discharged outside. The vapour compression cycle then increases the temperature and transfers the heat into a water-based system that can either heat water or the building. **Swimming Pool Heat Pumps** are an extremely efficient way of heating swimming pools using refrigeration technology to capture the heat in the outside air and transfer it to the water.

Exhaust Air Heat Pumps



Code	NIBE Exhaust ASHPs	Manufacturer Code	List Price £
HN089541	NIBE Fighter 200 UK Heat Pumps, Exhaust Air Heating 1-P 230V	089630	£3,987.55 £4,685.37
HN089571	NIBE Fighter 360 UK Heat Pumps, Exhaust Air Heating 1-P 230V	089571	£4,592.00 £5,395.60
HN089582	NIBE Fighter 410 UK Heat Pumps, Exhaust Air Heating 1-P 230V	089582	£5,248.45 £6,166.93

Code	NIBE Exhaust ASHP Accessories	Manufacturer Code	List Price £
HN089599	NIBE Air Supply Vent Kit White	089599	£28.90 £33.96
HN089599	NIBE Air Supply Vent Kit Terracotta	TL98F	£28.90 £33.96
HN089198	NIBE Air Supply Vent Kit 90dB	089198	£73.50 £86.36
HN089188	NIBE Module Lube	089188	£5.25 £6.17
HN014990	NIBE Storm Protection	014990	£15.75 £18.51
HN089200	NIBE Pollen Filter	089200	£5.25 £6.17
HN089201	NIBE Environment Filter	089201	£5.25 £6.17
HN067030	NIBE FLM 40 Exhaust Air Unit Heat Pumps Accessory	067030	£1,513.50 £1,778.36

Swimming Pool Heat Pumps



Code	Kloben SPHP's	Manufacturer Code	List Price £
HK010044	KLOBEN Heat Exchangers For Swimming Pools 120kW	101010044	£1,366.15 £1,605.23
HK010042	KLOBEN Plate Heat Exchanger 12kW	101010042	£213.10 £250.39
HK010043	KLOBEN Plate Heat Exchanger 32kW	101010043	£896.15 £1,052.98
HK010048	KLOBEN Plate Heat Exchanger 42kW	101010048	£1,024.65 £1,203.96



Code	Dimplex SPHP's	Manufacturer Code	List Price £
HDAS10MT	DIMPLEX Outdoor Air/Water Swimming Pool H/Pump – Single Phase	LAS10MT	£4,500.88 £5,288.53
HDAS15MT	DIMPLEX Outdoor Air/Water Swimming Pool H/Pump – Single Phase	LAS15MT	£4,862.75 £5,713.73
HDAS22TT	DIMPLEX Outdoor Air/Water Swimming Pool H/Pump – 3 Phase	LAS22TT	£5,767.46 £6,776.77

Prices shown in red are inclusive of VAT

BIOMASS BOILERS

Easy to install as new or as a replacement for your existing gas or oil boiler, biomass boilers burn a sustainable alternative to fossil fuels called biomass (wood chip, wood pellet or cereals). This produces heat for your central heating system and hot water, helping to counter the impact of climate change.

BAXI



Code	Baxi Biomass Boilers	Manufacturer Code	List Price £
B5130904	Baxi Biomass Multi Heat 4.0 600Ltr	5033313017934	£5,882.35 £6,911.76
B5130900	Baxi Biomass Multi Heat 2.5 360Ltr	5033313017897	£5,000.00 £5,875.00
B5130898	Baxi Biomass Multi Heat 1.5 200Ltr	5033313017873	£4,264.70 £5,011.02
B5130919	Baxi Biomass Solo Innova 50-STD	5033313018085	£4,573.52 £5,373.89
B5130918	Baxi Biomass Solo Innova 30-STD	5033313018078	£3,720.58 £4,371.68
B5130917	Baxi Biomass Solo Innova 20-STD	5033313018061	£3,323.52 £3,905.14
B5131045	Baxi Biomass Storage Tank 800	5033313018214	£692.46 £813.64
B5131044	Baxi Biomass Storage Tank 600	5033313018207	£818.12 £961.29
B5132054	Baxi Biomass Thermometer (0-120°/dia 66 x 120mm)	5033313018412	£22.06 £25.92

Code	Baxi Biomass Boilers	Manufacturer Code	List Price £
B5132050	Baxi Biomass Thermostatic Valve (Req for sealed sys install)	5033313018375	£161.76 £190.07
B5132051	Baxi Biomass Storage Tank Feed Kit	5033313018382	£426.47 £501.10
B5132052	Baxi Biomass Cleaning Brush for Hand Drill	5033313018399	£32.35 £38.01
B5132053	Baxi Biomass 4.0 Bar Manometer	5033313018405	£22.06 £25.92



Code	Vokera Biomass Boilers	Manufacturer Code	List Price £
HV000907	Vokera Neutro Wood Pellet Boilers	S/Be 907	£3,200.00 £3,760.00

Prices shown in red are inclusive of VAT

UNDERFLOOR HEATING

HYDRONIC

Underfloor heating requires less energy to heat a space than traditional radiators, reducing energy costs on average between 15% and 40%. They are simple to install and can be combined with other heat distribution systems where necessary.

Where can it be used?

Underfloor heating is suitable for use anywhere throughout a building. Most commonly, it is installed with a screeded floor, but systems are available for most types of construction.

What are the key benefits?

- Extremely energy efficient to operate – energy savings of 15% - 40% can be achieved
- A low-temperature system which can be used with a variety of heat sources including renewable energy solutions

- Heat is more evenly distributed around the space preventing hot spots and creating a more comfortable environment
- Installation is both fast and simple using a clip-rail system or staples
- Systems from Greenworks come with a 25-year guarantee on pipes and 1-year guarantee on electrical and mechanical products
- A full range of wired and wireless controls are available to suit any project

Talk to Greenworks or your local branch to arrange a manufacturers design solution for your project.

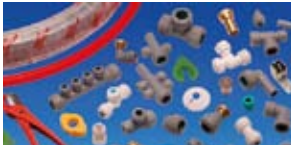
Uponor



Code	Uponor UFH System	Manufacturer Code	List Price £
UP700162	MLCP Coil 75m 16x2mm (white)	700162	£123.75 £145.41
UP700163	MLCP Coil 100m 16x2mm (white)	700163	£165.00 £193.88
UP700164	MLCP Coil 120m 16x2mm (white)	700164	£198.00 £232.65
UP001008	Uponor Kombi Klip Short 22mm	UK001008	£0.08 £0.09
UP001009	Uponor Kombi Klip Long 33mm	UK001009	£0.12 £0.14
UPUK1007	Uponor Kombi Gun MkII	UK001007	£134.99 £158.61
UP610516	Uponor Clamp Track 16 40mm x 2m	610516	£3.84 £4.51
UP601018	Uponor Unifoil Fixing Clip 2"	601018	£0.77 £0.90
UP606000	Uponor PE Edging Strip 0.15m x 50m 10mm	606000	£48.00 £56.40
UP601015	Uponor Uni-foil 6 1.2m x 25m 4.5mm	01015	£137.19 £161.20

UP601010	Uponor Multi-foil 60x1m	601010	£227.04 £266.77
UPHTGM2	Uponor HTG Manifold (TM) 2-Port	HTGM2	£89.14 £104.74
UPHTGM3	Uponor HTG Manifold (TM) 3-Port	HTGM3	£123.53 £145.15
UPHTGM4	Uponor HTG Manifold (TM) 4-Port	HTGM4	£153.22 £180.03
UPHTGM5	Uponor HTG Manifold (TM) 5-Port	HTGM5	£183.48 £215.59
UPHTGM6	Uponor HTG Manifold (TM) 6-Port	HTGM6	£212.75 £249.98
UPHTGM7	Uponor HTG Manifold (TM) 7-Port	HTGM7	£243.89 £286.57
UPHTGM8	Uponor HTG Manifold (TM) 8-Port	HTGM8	£274.62 £322.68
UPHTGT10	Uponor HTG Manifold (TM) 1-Port	HTGM1	£334.11 £392.58
UP770109	MLCP Euro Compression Adaptor 16 x 3/4" FT	770109	£2.62 £3.08
UP150301	Uponor FM/FR M'FLD Thermal actuator 24V	150301	£25.40 £29.85
UPUFHCV4	Uponor Compact Control Pack V4 230V	UFHCV4	£345.85 £406.37
UPPON150	Uponor Uniset Mini WTC Set	UPON150	£439.28 £516.15
UPUP3600	Uponor UP36 Controller C/W Pipe & Sensors	UP36	£429.68 £504.87
UP1000508	UCS Radio I-75 I/Face with C-55 Control	1000508	£320.93 £377.09
UP1000502	UCS Radio T-75 Thermostat (white)	1000502	£54.06 £63.52
UP1000527	UCS Radio T-55 Thermostat	1000527	£41.87 £49.20
UP1000528	UCS Radio T-53 Thermostat (public)	1000528	£60.15 £70.68

Prices shown in red are inclusive of VAT



Code	Wavin UFH System	Manufacturer Code	List Price £
W16UH050	16mm UFH Pipe (50m Coil)	16UH050	£85.40 £100.35
W16UH070	16mm UFH Pipe (70m Coil)	16UH070	£119.56 £140.48
W16UH090	16mm UFH Pipe (90m Coil)	16UH090	£153.72 £180.62
W16UH100	16mm UFH Pipe (100m Coil)	16UH100	£169.73 £199.43
W15UH236	Pipe Clamps x 2 for 16mm Osma UFH Pipe	15UH236	£0.74 £0.87
W15UH239	Curved Pipe Support x 2 for 16mm UFH Pipe	15UH239	£1.97 £2.31
W15UH305	Circular Saw Blade for Foiled Polystyrene Panels	15UH305	£69.39 £81.53
W69UH015	Manifold Cover – up to 6 ports	69UH015	£84.72 £99.55
W69UH018	Manifold Cover – up to 12 ports	69UH018	£99.45 £116.85
W15UH230	Staples For 16mm UFH Pipe (Box of 300) – Screeded Floors	15UH230	£30.64 £36.00
W15UH323	Staple Gun (40mm) – Screeded Floors	15UH323	£283.90 £333.58
W15UH233	Screw Clips (Bag of 50) – Screeded Floors	15UH233	£12.44 £14.62
W16UH196	System Plate (1300 x 800mm) – Screeded Floors	16UH196	£8.53 £10.02
W15UH235	System Plate Tack Fastener (Bag of 25) – Screeded Floors	15UH235	£5.98 £7.03
W20UH140	Pocketed Polystyrene Straight (50 x 600 x 2400mm) (200mm Centres) – Screeded Floors	20UH140	£24.93 £29.29
W20UH137	Pocketed Polystyrene Curve (50 x 600 x 2400mm) (200mm Centres) – Screeded Floors	20UH137	£26.53 £31.17
W20UH178	Channel Panel (50 x 600 x 2400mm) – Screeded Floors	20UH178	£30.10 £35.37
W3453200	Polyfoam Floorboard Standard (50 x 600 x 2400mm) – Screeded Floors	345320	£16.23 £19.07
W15UH400	Insulation Panel Sealing Tape (50m x 50mm) – Screeded Floors	15UH400	£8.54 £10.03
W15UH153	Multi Height Edge Expansion Foam (25m x 150mm) – Screeded Floors	15UH153	£22.68 £26.65
W25UH224	Foiled Polystyrene Straight (50 x 600 x 2400mm) (200mm Centres) – Floating Battened & Joisted	25UH224	£49.89 £58.62
W25UH221	Foiled Polystyrene Curve (50 x 600 x 2400mm) (200mm Centres) – Floating Battened & Joisted	25UH221	£49.78 £58.49

W30UH286	Inter Batten/Joist Straight (50 x 340 x 2400mm) – Floating Battened & Joisted	30UH286	£36.88 £43.33
W30UH289	Inter Batten/Joist Curve (50 x 340 x 600mm) – Floating Battened & Joisted	30UH289	£9.13 £10.73
W15UH699	Plastic L' Bracket for Inter Joist Panels (35 x 50 x 2400mm) – Floating Battened & Joisted	15UH699	£2.32 £2.73
W40UH406	Modular Chipboard Full Rout Tongue Exit (22 x 600 x 2400mm) – Chipboard Modules	40UH406	£63.45 £74.55
W40UH391	Modular Chipboard Full Rout Groove Exit (22 x 600 x 2400mm) – Chipboard Modules	40UH391	£63.45 £74.55
W40UH415	Modular Chipboard 1/2 Rout Tongue Exit (22 x 600 x 2400mm) – Chipboard Modules	40UH415	£46.49 £54.63
W40UH400	Modular Chipboard 1/2 Rout Groove Exit (22 x 600 x 2400mm) – Chipboard Modules	40UH400	£46.49 £54.63
W40UH005	Chipboard Panel Tongue & Grooved (22 x 600 x 2400mm) – Chipboard Modules	40UH005	£22.95 £26.97
W68UH002	Tigris 1/2 Port Manifold Assembly	68UH002	£395.24 £464.41
W68UH004	Tigris 3/4 Port Manifold Assembly	68UH004	£438.21 £514.90
W68UH006	Tigris 5/6 Port Manifold Assembly	68UH006	£517.74 £608.34
W68UH008	Tigris 7/8 Port Manifold Assembly	68UH008	£637.83 £749.45
W68UH010	Tigris 9/10 Port Manifold Assembly	68UH010	£731.77 £859.83
W68UH012	Tigris 11/12 Port Manifold Assembly	68UH012	£821.98 £965.83
W52UH002	Actuator for Tigris Manifolds (230V – 2 Wire)	52UH002	£25.73 £30.23
W47UH019	Isolating Valves for Tigris Manifold Assembly (Pair)	47UH019	£31.81 £37.38
W47UH750	Port Thermometer for Tigris Manifolds	47UH750	£7.42 £8.72
W47UH800	Pressure Gauge	47UH800	£11.74 £13.79
W48UH551	Single Room Water Mixing Unit inc. Isolation Valves – Single Zone Controls	48UH551	£340.00 £399.50
WUH1M000	Osma 4 Zone Control Centre for 230V Thermostats	UH1-M	£114.76 £134.84
WPRTHWV2	Osma 230V Programmable Thermostat (Inc DHW Control)	PRT-HWV2	£44.95 £52.82
WPRTM200	Osma 230V Programmable Thermostat	PRT-M2	£47.98 £56.38
WRMT2300	Danfoss Dial Thermostat (Electro Mechanical)	RMT230	£13.98 £16.43
WUH10000	Osma 8 Zone Control Centre for 12V Thermostats	UH-1	£139.04 £163.37
WPRTHWNV	Osma 12V Networkable Programmable Thermostat (inc. DHW Control)	PRT-HW-NV2	£47.98 £56.38
WRTNV200	Osma 12V Networkable Programmable Thermostat	RT-NV2	£47.98 £56.38
WOTP0000	Osma Touch Pad (for use with Osma Networkable Thermostats)	OTP	£360.28 £423.33



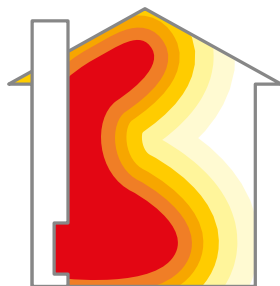
Code	Myson UFH System	Manufacturer Code	List Price £
HM21712E	Myson Floortec Pe-Xa Pipe 17 x 2mm 120m Coil	WTRPE21712E	£142.91 £167.92
HM21724E	Myson Floortec Pe-Xa Pipe 17 x 2mm 240m Coil	WTRPE21724E	£285.82 £335.84
HM21760E	Myson Floortec Pe-Xa Pipe 17 x 2mm 600m Coil	WTRPE21760E	£715.55 £840.77
HM21412E	Myson Floortec Pe-Xa Pipe 14 x 2mm 120m Coil	WTRPE21412E	£136.16 £159.99
HM21424E	Myson Floortec Pe-Xa Pipe 14 x 2mm 240m Coi	WTRPE21424E	£272.34 £320.00
HM21460E	Myson Floortec Pe-Xa Pipe 14 x 2mm 600m Coil	WTRPE21460E	£680.84 £799.99
HM21608E	Myson Floortec Multi-layer Pipe 16 x 2mm 80m Coil	WTRAV21608E	£137.76 £161.87
HM21610E	Myson Floortec Multi-layer Pipe 16 x 2mm 100m Coil	WTRAV21610E	£172.20 £202.34
HM21612E	Myson Floortec Multi-layer Pipe 16 x 2mm 120m Coil	WTRAV21612E	£206.64 £242.80
HMI1730E	Myson Floortec U-Clip Tacker Pipe Staples 16-20mm (Packs of 300)	WTXCLI1730E	£24.92 £29.28
HMS1010E	Myson Floortec Insulated Fixing Mat 25mm (10m ² Roll)	WTWC251010E	£78.59 £92.34
HM01010E	Myson Floortec Insulated Fixing Mat 50mm (10m ² Roll)	WTWC501010E	£105.00 £123.38
HM01420E	Myson Floortec Cliprail 14mm – 20mm – 1m length	WZUVS01420E	£3.33 £3.91

HMH0000E	Myson Floortec Cliprail Pipe Staples (Packs 500)	WZUVSH0000E	£0.09 £0.11
HM11508E	Myson Floortec Pre-Formed Plate with 11mm Insulation (1500 x 800mm) (Price per sheet)	WNWI11508E	£11.54 £13.56
HM01805E	Myson Floortec Foam Perimeter Tube (50m Rolls)	WNURP01805E	£21.37 £25.11
HM00017E	Myson Floortec Heat Diffusion Plate 1000 x 388mm for 17mm Pipe	WZUJF00017E	£11.94 £14.03
HM00014E	Myson Floortec Heat Diffusion Plate 1000 x 390mm for 14mm Pipe	WZUJF00014E	£11.94 £14.03
HM01004E	Myson Floortec Flat Floor Plate 1000 x 400mm	WFF001004E	£10.26 £12.06
HMXPS30E	Myson Floortec 30mm XPS Floating Floor Panel 2400 x 1200mm	WFFOXPS30E	£73.57 £86.44
HMXPS40E	Myson Floortec 40mm XPS Floating Floor Panel 2400 x 1200mm	WFFOXPS40E	£75.64 £88.88
HMXPS50E	Myson Floortec 50mm XPS Floating Floor Panel 2400 x 1200mm	WFFOXPS50E	£80.92 £95.08
HMM2002E	Myson Floortec 2 Port Manifold complete with Flow Meters	WZHEDM2002E	£147.53 £173.35
HMM2003E	Myson Floortec 3 Port Manifold complete with Flow Meters	WZHEDM2003E	£174.97 £205.59
HMM2004E	Myson Floortec 4 Port Manifold complete with Flow Meters	WZHEDM2004E	£202.24 £237.63
HMM2005E	Myson Floortec 5 Port Manifold complete with Flow Meters	WZHEDM2005E	£229.99 £270.24
HMM2006E	Myson Floortec 6 Port Manifold complete with Flow Meters	WZHEDM2006E	£257.59 £302.67
HMM2007E	Myson Floortec 7 Port Manifold complete with Flow Meters	WZHEDM2007E	£285.15 £335.05
HMM2008E	Myson Floortec 8 Port Manifold complete with Flow Meters	WZHEDM2008E	£313.09 £367.88
HMM2009E	Myson Floortec 9 Port Manifold complete with Flow Meters	WZHEDM2009E	£340.08 £399.59
HMM2010E	Myson Floortec 10 Port Manifold complete with Flow Meters	WZHEDM2010E	£368.10 £432.52
HMM2011E	Myson Floortec 11 Port Manifold complete with Flow Meters	WZHEDM2011E	£395.55 £464.77
HMM2012E	Myson Floortec 12 Port Manifold complete with Flow Meters	WZHEDM2012E	£423.49 £497.60
HMMMMM02E	Myson Floortec 2 Port Mini Manifold (for use with WZHOOSR020E)	WZHEDMMMM02E	£80.59 £94.69
HMRSTM0E	Myson Floortec Manifold Control Centre	WZHEDRSTM0E	£399.00 £468.83
HMRST00E	Floortec Water Temperature Control Pack	WZHEDRST00E	£552.68 £649.40
HMSR020E	Myson Floortec Single Room Pack	WZHOOSR020E	£352.45 £414.13

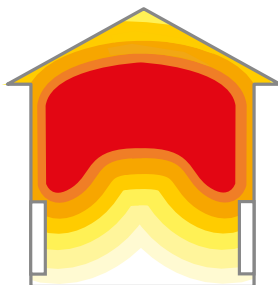
HMSRV20E	Myson Floortec 22mm Mixing Valve	WZHMVSR020E	£153.97 £180.91
HMSM240E	Myson Floortec 240V Actuator Head	WZSRISM240E	£30.33 £35.64
HMSM024E	Myson Floortec 24V Actuator Head	WZSRISM024E	£30.33 £35.64
HMSA230E	Floortec 230V Actuator Head	WZSRISA230E	£30.33 £35.64
HM12230E	Myson Floortec 240V Wiring Centre	WZSA612230E	£95.79 £112.55
HMR1024E	Myson Floortec 24V Room Thermostat	WZSRTR1024E	£27.30 £32.08
HM12224E	Myson Floortec 24V Wiring Centre	WZSA112224E	£108.15 £127.08
HMRPR24E	Myson Floortec MPRT Programmable Room Thermostat	WZSRTRPR24E	£81.61 £95.89
HMRMD00E	Myson Floortec MRT1 Room Thermostat	WZSRTRMD00E	£16.92 £19.88
HMRDIG0E	Myson Floortec MRTE Digital Room Thermostat	WZSRTRDIG0E	£47.03 £55.26
HMCP000E	Myson Floortec MEP1C Programmer	WZSASCP000E	£70.89 £83.30
HM80230E	Myson Floortec Wireless Base Unit	WZSFA80230E	£181.00 £212.68
HMF0230E	Myson Floortec Wireless Room Thermostat	WZSRTF0230E	£51.98 £61.08
HMS1024E	Myson Floortec External Floor Sensor	WZSRIS1024E	£18.90 £22.21
HM81625E	Myson Floortec Edge Perimeter Insulation (25m Roll)	WZUD081625E	£15.46 £18.17
HM0BF17E	Myson Floortec Pipe Bend Former	WZUFB00017E	£1.01 £1.19
HM01520E	Myson Floortec Iso-Clips	WZU001520E	£0.29 £0.34
HMACK20E	Myson Floortec Underfloor Heating Pack 20sqm	W00PACK20E	£603.75 £709.41
HMACK40E	Myson Floortec Underfloor Heating Pack 40sqm	W00PACK40E	£750.75 £882.13
HMRPR24E	Myson Floortec MPRT Programmable Room Thermostat	WZSRTRPR24E	£81.61 £95.89
HMRMD00E	Myson Floortec MRT1 Room Thermostat	WZSRTRMD00E	£16.92 £19.88
HMRDIG0E	Myson Floortec MRTE Digital Room Thermostat	WZSRTRDIG0E	£47.03 £55.26
HMCP000E	Myson Floortec MEP1C Programmer	WZSASCP000E	£70.89 £83.30
HM80230E	Myson Floortec Wireless Base Unit	WZSFA80230E	£181.00 £212.68



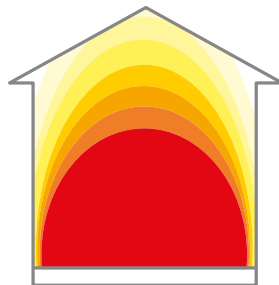
HMF0230E	Myson Floortec Wireless Room Thermostat	WZSRTF0230E	£51.98 £61.08
HMS1024E	Myson Floortec External Floor Sensor	WZSRIS1024E	£18.90 £22.21
HM81625E	Myson Floortec Edge Perimeter Insulation (25m Roll)	WZUD081625E	£15.46 £18.17
HM0BF17E	Myson Floortec Pipe Bend Former	WZUFB00017E	£1.01 £1.19
HM01520E	Myson Floortec Iso-Clips	WZU001520E	£0.29 £0.34
HMACK20E	Myson Floortec Underfloor Heating Pack 20sqm	W00PACK20E	£603.75 £709.41
HMACK40E	Myson Floortec Underfloor Heating Pack 40sqm	W00PACK40E	£750.75 £882.13



Fireplace



Radiators



Underfloor Heating

UNDERFLOOR HEATING

ELECTRIC

Underfloor heating uses a radiant heat design to gently heat the room from the bottom up. The heat spreads over the entire floor area, resulting in about half the heat being emitted as low temperature radiant heat. This gentle source of warmth reduces the heat loss from our bodies without overheating the surrounding air



Code	Devi Electric UHF for Concrete Floors	Manufacturer Code	List Price £
UT122570	500 wide x 2m long – 150 watts for concrete floors	D0000066	£100.09 £117.61
UT122571	500 wide x 3m long – 225 watts for concrete floors	D0000067	£114.66 £134.73
UT122572	500 wide x 4m long – 300 watts for concrete floors	D0000068	£133.37 £156.71
UT122573	500 wide x 5m long – 375 watts for concrete floors	D0000069	£157.20 £184.71
UT122574	500 wide x 6m long – 450 watts for concrete floors	D0000070	£179.73 £211.18
UT122575	500 wide x 7m long – 525 watts for concrete floors	D0000071	£200.95 £236.12
UT122576	500 wide x 8m long – 600 watts for concrete floors	D0000072	£221.30 £260.03
UT122578	500 wide x 10m long – 750 watts for concrete floors	D0000073	£258.97 £304.29
UT122579	500 wide x 12m long – 900 watts for concrete floors	D0000074	£296.21 £348.05
UT122580	500 wide x 14m long – 1050 watts for concrete floors	D0000075	£331.34 £389.32
UT122581	500 wide x 16m long – 1200 watts for concrete floors	D0000076	£362.47 £425.90
UT122582	500 wide x 18m long – 1350 watts for concrete floors	D0000077	£373.22 £438.53
UT122583	500 wide x 20m long – 1500 watts for concrete floors	D0000078	£383.97 £451.16
UT122584	500 wide x 24m long – 1800watts for concrete floors	D0000044	£454.79 £534.38

UT122556	500 wide x 2m long – 100 watts for timber floors	D0000052	£87.91 £103.29
UT122557	500 wide x 3m long – 150 watts for timber floors	D0000053	£100.46 £118.04
UT122558	500 wide x 4m long – 200 watts for timber floors	D0000054	£116.92 £137.38
UT122559	500 wide x 5m long – 250 watts for timber floors	D0000055	£137.72 £161.82
UT122560	500 wide x 6m long – 300 watts for timber floors	D0000056	£154.12 £181.09
UT122561	500 wide x 7m long – 350 watts for timber floors	D0000057	£172.34 £202.50
UT122562	500 wide x 8m long – 400 watts for timber floors	D0000058	£189.69 £222.89
UT122563	500 wide x 10m long – 500 watts for timber floors	D0000059	£214.73 £252.31
UT122564	500 wide x 12m long – 600 watts for timber floors	D0000060	£245.40 £288.35
UT122565	500 wide x 14m long – 700 watts for timber floors	D0000061	£274.43 £322.46
UT122566	500 wide x 16m long – 800 watts for timber floors	D0000062	£300.21 £352.75
UT122567	500 wide x 18m long – 900 watts for timber floors	D0000063	£315.69 £370.94
UT122568	500 wide x 20m long – 1000 watts for timber floors	D0000064	£326.24 £383.33
UT122569	500 wide x 24m long – 1200 watts for timber floors	D0000399	£405.32 £476.25
UT122585	Devireg 130 Thermostat without Timer White 19112012	D0000046	£52.50 £61.69





Code	Warmup Electric UFH	Manufacturer Code	List Price £
HWDWS800	WARMUP Dual Wire Undertile Dual Core Cable Kit Heater 800W 150w/m ²	DWS 800	£195.74 £229.99
HWDWS600	WARMUP Dual Wire Undertile Dual Core Cable Kit Heater 600W 150w/m ²	DWS 600	£149.78 £175.99
HWDWS400	WARMUP Dual Wire Undertile Dual Core Cable Kit Heater 400W 150w/m ²	DWS 400	£102.12 £119.99
HWDWS300	WARMUP Dual Wire Undertile Dual Core Cable Kit Heater 300W 150w/m ²	DWS 300	£85.10 £99.99
HWMSTAT0	WARMUP Manual Thermostat Controller	MSTAT	£34.03 £39.99
HWXSTATW	WARMUP Programmable UFH Thermostat White	XSTAT	£71.40 £83.90
HWXSTATG	WARMUP Programmable UFH Thermostat Grpht	XSTAT	£79.99 £93.99
HWLH35M0	WARMUP Under Laminate Heater 3.5 x 1.0	LH 3.5M	£140.00 £164.50
HWLH30M0	WARMUP Under Laminate Heater 3.0 x 1.0	LH 3.0M	£120.00 £141.00
HWLH25M0	WARMUP Under Laminate Heater 2.5 x 1.0	LH 2.5M	£100.00 £117.50
HWLH20M0	WARMUP Under Laminate Heater 2.0 x 1.0	LH 2.0M	£80.00 £94.00
HWLH15M0	WARMUP Under Laminate Heater 1.5 x 1.0	LH 1.5M	£60.00 £70.50
HWLH10M0	WARMUP Under Laminate Heater 1.0 x 1.0	LH 1.0M	£40.00 £47.00
HWLH350H	WARMUP Under Laminate Heater 7.0 x 0.5	LH 3.50H	£140.00 £164.50
HWLH325H	WARMUP Under Laminate Heater 6.5 x 0.5	LH 3.25H	£130.00 £152.75
HWLH300H	WARMUP Under Laminate Heater 6.0 x 0.5	LH 3.00H	£120.00 £141.00
HWLH275H	WARMUP Under Laminate Heater 5.5 x 0.5	LH 2.75H	£110.00 £129.25
HWLH250H	WARMUP Under Laminate Heater 5.0 x 0.5	LH 2.50H	£100.00 £117.50
HWLH225H	WARMUP Under Laminate Heater 4.5 x 0.5	LH 2.25H	£90.00 £105.75
HWLH200H	WARMUP Under Laminate Heater 4.0 x 0.5	LH 2.00H	£80.00 £94.00
HWLH175H	WARMUP Under Laminate Heater 3.5 x 0.5	LH 1.75H	£70.00 £82.25
HWLH150H	WARMUP Under Laminate Heater 3.0 x 0.5	LH 1.50H	£60.00 £70.50
HWLH125H	WARMUP Under Laminate Heater 2.5 x 0.5	LH 1.25H	£50.00 £58.75

HWLH100H	WARMUP Under Laminate Heater 2.0 x 0.5	LH 1.00H	£40.00 £47.00
HWLH075H	WARMUP Under Laminate Heater 1.5 x 0.5	LH 0.75H	£30.00 £35.25
HWPFM110	WARMUP ProFormat Undertile Heating Mat – 11m ²	PFM 11	£380.00 £446.50
HWPFM100	WARMUP ProFormat Undertile Heating Mat – 10m ²	PFM 10	£355.00 £417.13
HWPFM090	WARMUP ProFormat Undertile Heating Mat – 9m ²	PFM 09	£330.00 £387.75
HWPFM080	WARMUP ProFormat Undertile Heating Mat – 8m ²	PFM 08	£305.00 £358.38
HWPFM070	WARMUP ProFormat Undertile Heating Mat – 7m ²	PFM 07	£280.00 £329.00
HWPFM060	WARMUP ProFormat Undertile Heating Mat – 6m ²	PFM 06	£245.00 £287.88
HWPFM050	WARMUP ProFormat Undertile Heating Mat – 5m ²	PFM 05	£205.00 £240.88
HWPFM040	WARMUP ProFormat Undertile Heating Mat – 4m ²	PFM 04	£170.00 £199.75
HWPFM030	WARMUP ProFormat Undertile Heating Mat – 3m ²	PFM 03	£135.00 £158.63
HWPFM020	WARMUP ProFormat Undertile Heating Mat – 2m ²	PFM 02	£95.00 £111.63
HWPFM015	WARMUP ProFormat Undertile Heating Mat – 1.5m ²	PFM 1.5	£85.00 £99.88
HWRC000	WARMUP Residual Circuit Device/Twin pole	RCD	£37.15 £43.65
HWMSTAT0	WARMUP Manual Thermostat Controller	MSTAT	£34.03 £39.99
HWXSTATW	WARMUP Programmable UFH Thermostat White	XSTAT	£71.40 £83.90
HWXSTATG	WARMUP Programmable UFH Thermostat Grpht	XSTAT	£79.99 £93.99
HWGN1500	WARMUP Grounding Net 3.0 x 0.5	GN 1.5	£15.38 £18.07
HWGN1000	WARMUP Grounding Net 2.0 x 0.5	GN 1.0	£11.54 £13.56
HWGN0500	WARMUP Grounding Net 1.0 x 0.5	GN 0.5	£7.69 £9.04
HWINST25	WARMUP Glass Fibre Tape – 25m Roll	INS TAPE 25m	£1.15 £1.35
HWINST90	WARMUP Glass Fibre Tape – 90m Roll	INS TAPE 90m	£3.20 £3.76
HWINSB52	WARMUP 50mm Warmup Insulation Board (Pack 2)	INS BOARD 50mm	£74.35 £87.36
HWINSB55	WARMUP 50mm Warmup Insulation Board	INS BOARD 50mm	£37.60 £44.18
HWINSB15	WARMUP 10mm Warmup Insulation Board (Pack 5)	INS BOARD 10mm	£78.70 £92.47
HWINSB10	WARMUP 10mm Warmup Insulation Board	INS BOARD 10mm	£15.74 £18.49



SUN TUNNELS

Using natural light reduces the amount of energy required to provide lighting, thereby reducing CO₂ emissions. We offer a range of rooflights and sun-pipes that allow light into almost any building.

VELUX®



Code	Velux Sun Tunnels	Manufacturer Code	List Price £
VLXTLF14	14" Flexi Sun tunnel for Slate roof	TLF 014 2010	£170.00 £199.75
VLXTLR10	10" Rigid Sun tunnel for Slate roof	TLR 010 2010	£220.00 £258.50
VLXTLR14	14" Rigid Sun tunnel for Slate roof	TLR 014 2010	£250.00 £293.75
VXTWF014	14" Flexi Sun tunnel for Tile roof	TWF 014 2010	£185.00 £217.38
VLXTWR10	10" Rigid Sun tunnel for Tile roof	TWR 010 2010	£220.00 £258.50
VXTWR014	14" Rigid Sun tunnel for Tile roof	TWR 014 2010	£250.00 £293.75



Code	Velux Sun Tunnel Accessories	Manufacturer Code	List Price £
VLXZTB4A	Ceiling trim 14" Brushed Aluminium	ZTB 014 0011	£25.00 £29.38
VLXZTB11	Ceiling trim 10" Brushed Aluminium	ZTB 010 0011	£30.00 £35.25
VLXZTB1B	Ceiling trim 10" Brass	ZTB 010 0012	£25.00 £29.38
VLXZTB1M	Ceiling trim 10" Mahogany	ZTB 010 0013	£40.00 £47.00
VLXZTB4B	Ceiling trim 14" Brass	ZTB 014 0012	£25.00 £29.38
VLXZTB4M	Ceiling trim 14" Mahogany	ZTB 014 0013	£40.00 £47.00
VLXZTC01	Diffuser pane	ZTC 010 0001	£45.00 £52.88
VLXZTC02	Diffuser pane	ZTC 010 0002	£40.00 £47.00
VLXZTC41	Diffuser pane	ZTC 014 0001	£40.00 £47.00
VLXZTC42	Diffuser pane	ZTC 014 0002	£40.00 £47.00
VXZTL014	Light kit	ZTL 014	£45.00 £52.88
VLXZTR60	Extension tunnel, 60cm	ZTR 010 0062	£45.00 £52.88
VLXZTR62	Extension tunnel, 60cm	ZTR 014 0062	£45.00 £52.88
VLXZTR12	Extension tunnel, 120cm	ZTR 014 0124	£90.00 £105.75
VXZTV014	Ventilator adaptor	ZTV 014	£90.00 £105.75

Why choose a sun-pipe?

- Sun-tunnels use roof-mounted sun domes and mirrored tunnels to bring daylight into even the darkest corners of a building
- Sizes from 9" to 60" available. A 12" diameter sun-tunnel will light a 10' x 10' room from dawn until dusk
- Easy to install
- No limit to the length of the sun-tunnel or number of bends
- No structural alterations or maintenance required
- Can be used on a variety of roof surfaces
- No heat-gain or heat-loss

Prices shown in red are inclusive of VAT

WIND ENERGY TURBINES

Wind represents a vast source of energy that has already been harnessed for hundreds of years. The UK has the largest potential wind energy resource in Europe and wind power is currently one of the most developed and cost effective renewable energy technologies.

A site survey will be required, contact our Central Sales Office for all enquiries.

SWIFT

Code	Swift Wind Turbine	Manufacturer Code	List Price £
HSSWIFT2	SWIFT Wind Turbine & Inverter	SWIFT2	£4,049.00 £4,757.58

Code	Swift Wind Turbine Accessories	Manufacturer Code	List Price £
HSMWALL1	Standard Wall Mounting System – 5m aluminum pole including 4 brackets	MWALL1	£450.00 £528.75
HSMFRS10	Flat Roof Mounting System – 3 metres tall, 1m x 1m base	MFRS1	£950.00 £1,116.25
HSMSTL10	Steel Structure Mounting System – 1.8m tall, flanged base	MSTL1	£500.00 £587.50
HSMFREE1	Stand alone mast – Wooden Pole with Adaptor – 8m above ground	MFREE1	£1,250.00 £1,468.75

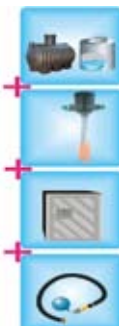


RAIN WATER HARVESTING

Rainwater harvesting has the potential to save a large volume of mains water and reduce pressure on resources. Water that would otherwise be lost can be used instead to flush toilets, water gardens and feed washing machines. Rainwater harvesting can ideally be used on large surfaces such as roofs or driveways. An average driveway can provide up to 100m³ (100,000 litres) of water per year. Different sizes are available to suit any project from small domestics to large commercial applications. The collected water can be used to supply lavatories, household appliances or outside taps, but is not suitable for drinking.



Code	Rain Water Harvesting	Manufacturer Code	List Price £
HR0G1350	RAIN Harvester OptiGarden 1.3 – 5000L Tank	KP-0G1.3-50	£1,702.11 £1,999.98
HRDV6800	RAIN Harvester Inspection Turret	T-ODV6-800	£127.65 £149.99
HRKPOPAZ	RAIN Harvester OptiProfi 1 Connection Accessories	KP-OP-AZ	£68.08 £79.99
HROB1300	RAIN Harvester 1300L Tank Only	T-OB 1300	£553.18 £649.99



Note: A price increase will be applied to the Rainharvester product range from Jan. 09.

HROB3500	RAIN Harvester 3500L Tank Only	T-OB 3500	£978.71 £1,149.98
HROB5000	RAIN Harvester 5000L Tank Only	T-OB 5000	£1,276.59 £1,499.99
HROE2213	RAIN Harvester OptiEasy 2.2 – 1300L Tank	KP-OE2.2-13	£1,131.91 £1,329.99
HROE2235	RAIN Harvester OptiEasy 2.2 – 3500L Tank	KP-OE2.2-35	£1,685.09 £1,979.98
HROE2250	RAIN Harvester OptiEasy 2.2 – 5000L Tank	KP-OE2.2-50	£1,982.96 £2,329.98
HROE22AZ	RAIN Harvester OptiEasy 2.2 Connection Accessories	KP-OE2.2-AZ	£144.67 £169.99
HROG1313	RAIN Harvester OptiGarden 1.3 – 1300L Tank	KP-OG1.3-13	£851.06 £1,000.00
HROG1335	RAIN Harvester OptiGarden 1.3 – 3500L Tank	KP-OG1.3-35	£1,404.24 £1,649.98
HROG13AZ	RAIN Harvester OptiGarden 1.3 Connection Accessories	KP-OG1.3-AZ	£51.06 £60.00
HROG2313	RAIN Harvester OptiGarden 2.3 – 1300L Tank	KP-OG2.3-1.3	£936.16 £1,099.99
HROG2335	RAIN Harvester OptiGarden 2.3 – 3500L Tank	KP-OG2.3-35	£1,489.34 £1,749.97
HROG2350	RAIN Harvester OptiGarden 2.3 – 5000L Tank	KP-OG2.3-50	£1,787.22 £2,099.98
HROG23AZ	RAIN Harvester OptiGarden 2.3 Connection Accessories	KP-OG2.3-AZ	£51.06 £60.00
HRPOP113	RAIN Harvester OptiProfi 1 – 1300L Tank	KP-OP1-13	£1,489.35 £1,749.99
HRPOP135	RAIN Harvester OptiProfi 1 – 3500L Tank	KP-OP1-35	£2,042.54 £2,399.98
HRPOP150	RAIN Harvester OptiProfi 1 – 5000L Tank	KP-OP1-50	£2,340.41 £2,749.98
HRZPOG13	RAIN Harvester OptiGarden 1.3 System without Tank	ZP-OG1.3	£297.86 £349.99
HRZPOG23	RAIN Harvester OptiGarden 2.3 System without Tank	ZP-OG2.3	£382.97 £449.99
HRZPOE22	RAIN Harvester OptiEasy 2.2 System without Tank	ZP-OE2.2	£578.71 £679.98
HRZPOP10	RAIN Harvester OptiProfi 1 System without Tank	ZP-OP1	£936.16 £1,099.99

Prices shown in red are inclusive of VAT

GREY WATER RECYCLING

EcoPlay is an innovative water management system that recycles bath and shower water for toilet flushing. It's simple to install, maintenance free and can reduce water usage by up to 30%.



Code	Rain Water Harvesting	Manufacturer Code	List Price £
ECOB1121	ECOPLAY Grey Water Recycling System 1-2 Floors/1 WC	ECOB1121	£2,500.00 £2,937.50
ECOB1222	ECOPLAY Grey Water Recycling System 1-2 Floors/2 WC	ECOB1222	£3,500.00 £4,112.50
ECOB22PG	ECOPLAY Grey Water Recycling System 2 Floors/2 WC (inc pump)	ECOB22P	£3,500.00 £4,112.50
SCDC42CP	MACDEE DUO-Compact Concealed Cistern	CDC42CP	£80.38 £94.45
SCDC52CP	MACDEE DUO-Compact Concealed Cistern Front Access	CDC52CP	£104.23 £122.47
SDVA0100	MACDEE ARCADIA 1.5in Dual Flush Outlet Valve	DVA0100	£21.83 £25.65
SDVA0200	MACDEE ARCADIA 2.0in Dual Flush Outlet Valve	DVA0200	£21.83 £25.65

What are the key benefits?

- Up to 30% reduction in water consumption (reduces water bills without changing the users' behaviour)
- Easy to install and maintenance free
- Intelligent processor learns water dynamics of household and maximises use of available water
- Removes need for complex water treatment



WATER SAVING PRODUCTS

LOW WATER CONTENT TOILETS AND WATERLESS URINALS

Government statistics estimate that on average the UK toilet uses 9 litres per flush, but we offer a range of products that use water efficiently and can help in the reduction of your metered water supply. We offer low water content toilets, baths, waterless urinals and water saving taps and showers.



Code	Twyford Low Water Content Toilet Packs	Manufacturer Code	List Price £
GECO42WH	TWYFORD Galerie Flushwise 4 & 2.6 Litre Dual Low Flush HO Pk GECO42WH	GECO42WH	£285.60 £335.58
HECO42WH	TWYFORD HE Flushwise 4 & 2.6 Litre Dual Low Flush HO Pk White HECO42WH	HECO42WH	£186.70 £219.37
GLEC42WH	TWYFORD Galerie Plan Flushwise 4/2L Pack	GLEC42WH	£285.60 £335.58
GCEC42WH	TWYFORD Grace Flushwise 4/2L Pack	GCEC42WH	£285.60 £335.58

Code	Twyford Low Water Content Toilets	Manufacturer Code	List Price £
AV1968WH	TWYFORD Avalon Rimless Wc Ho 450mm	AV1968WH	£208.00 £244.40
AV2661WH	TWYFORD Sola Avalon Cistern BSIO Fittings 6OR4LTR	AV2661WH	£180.00 £211.50
AV2668WH	TWYFORD Sola Avalon Cistern BSIO Fittings 6OR4LTR C/Clip	AV2668WH	£195.00 £229.13
CX9251XX	TWYFORD Lever Concealed Cistern 4 Ltr	CX9251XX	£68.70 £80.72
CX9514XX	TWYFORD Push Button CP Concealed Cistern 4 Ltr	CX9514XX	£60.90 £71.56
GN1438WH (FT.)	TWYFORD Galerie BTW Pan HO	GN1438WH	£167.10 £196.34
GN1738WH (FT.)	TWYFORD Galerie Wall Hung Pan	GN1738WH	£187.50 £220.31

Ideal Standard



Code	Ideal Standard Low Water Content Toilet Packs	Manufacturer Code	List Price £
AS426001	Sandringham Close Coupled 4.0/2.6 litre, Dual Flush WC Pack	S426001	£177.74 £208.84

Code	Ideal Standard Waterless Urinals	Manufacturer Code	List Price £
AS632101	Aridian 62cm Waterless Urinal Bowl with 1 cartridge	S632101	£292.88 £344.13
KBWU0090	Waterless Urinal Cartridge – Single	S628267	£50.65 £59.51



WATER SAVING PRODUCTS

BATHS AND WATER SAVING TAPS

Twyford
bathrooms

Ideal Standard



Code	Twyford Low Water Content Baths	Manufacturer Code	List Price £
	TWYFORD Signature Bath 1700 x 700mm 2TH C.P Grips Soft White	SE8522SW	£197.00 £231.48
LPBTSBHS	TWYFORD Signature Bath 1700x700mm 2TH C.P Grips Soft Cream	SE8522SC	£197.00 £231.48
LPBTSBHW	TWYFORD Signature Bath 1700x700mm 2TH CP Grips White	SE8522WH	£187.10 £219.84
SB1372WH	TWYFORD Shallow 1500X700 Bath 2Ct Slr Inc Cp Grips White	SB1372WH	£399.00 £468.83
SB1772WH	TWYFORD Shallow 1700X700 Bath 2Ct Slr Inc Cp Grips White	SB1772WH	£352.50 £414.19
SE8520WH	TWYFORD Signature 1700x700 Bth Nt Cp Gr	SE8520WH	£187.10 £219.84

Code	Ideal Standard Low Water Content Baths	Manufacturer Code	List Price £
IE769001	Alto Water Saving 170 x 70cm rectangular bath with chrome plated grips – no tapholes	E769001	£249.55 £293.22
AS159701	Sandringham Water Saving 170 x 70cm acrylic rectangular bath with chrome plated grips – two tapholes	S159701	£168.82 £198.36

Alterna



Code	Alterna Water Saving Taps	Manufacturer Code	List Price £
ALTLBMO	ALTERNA Bologna Basin Mixer with Flow Limiter & PUW Chrome	ALTLBMO	£60.00 £70.50

ALTLBLSN	ALTERNA Bologna Basin Taps with Flow Limiter exc. Waste Chrome	ALTLBLSN	£48.00 £56.40
ALTLCBMO	ALTERNA Lucca Basin Mixer with Flow Limiter & PUW Chrome	ALTLCBMO	£74.00 £86.95
ALTLCBSN	ALTERNA Lucca Basin Taps with Flow Limiter exc. Waste Chrome	ALTLCBSN	£50.00 £58.75
ALTNCBSN	ALTERNA Non-Concussive Basin Taps exc. Waste Chrome	ALTNCBSN	£32.00 £37.60
ALTSNBMO	ALTERNA Sienna Basin Mixer with Flow Limiter & PUW Chrome	ALTSNBMO	£74.00 £86.95
ALTSNBSN	ALTERNA Sienna Basin Taps with Flow Limiter exc. Waste Chrome	ALTSNBSN	£50.00 £58.75
ALTVRBMO	ALTERNA Verona Basin Mixer inc. Flow Limiter & PUW Chrome	ALTVRBMO	£63.00 £74.03
ALTVRBSN	ALTERNA Verona Basin Taps inc. Flow Limiter exc Waste Chrome	ALTVRBSN	£30.00 £35.25

BRISTAN



Code	Bristan Eco Taps, Flow Limiters – Bathroom & Kitchen Taps & Mixers	Manufacturer Code	List Price £
SABR0208	Flow Limiter – to 6 litres per minute	ECO BAS6	£3.66 £4.30
SABR0216	Flow Limiter – to 4 litres per minute	ECO TAP4	£1.15 £1.35
SABR0292	Flow Limiter – to 3 litres per minute	ECO TAP3	£1.15 £1.35
SABR0290	Flow Limiter – to 2 litres per minute	ECO TAP2	£1.15 £1.35
SABR0126	Flow Limiter – to 1 litre per minute	ECO TAP1	£1.15 £1.35

Prices shown in red are inclusive of VAT

Code	Bristan Eco Taps – Bathroom & Kitchen Taps & Mixers	Manufacturer Code	List Price £
SABR0784	Java basin mixer with eco click	J EBAS C	£101.66 £119.45
BJPXBASC	Jupiter basin mixer with eco click	JP XBAS C	£195.55 £229.77
JPWMBSMC	Jupiter wallmounted bath shower mixer with eco click	JP WMBSM C	£154.08 £181.04
BJPWMBFC	Jupiter wallmounted bath filler with eco click	JP WMBF C	£135.08 £158.72
SABR1026	Prism basin mixer with eco click	PM EBAS C	£112.68 £132.40

Code	Bristan Eco Taps – Self Closing Taps	Manufacturer Code	List Price £
BLUX12CO	Single Luxury Basin Tap	Z LUX 1/2 C	£42.78 £50.27
KSB15540	Single Basin Tap (with flow regulator)	Z 1/2 C	£41.78 £49.09
KSB15570	Single Toggle Lever Basin Tap (with flow regulator)	Z DUS 1/2 C	£34.06 £40.02
KSB15570	Single Toggle Lever Basin Tap (with flow regulator)	ZL 1/2 C	£66.03 £77.59
KSB15550	Single Self Closing Bib Tap (with flow regulator)	Z BIB C	£39.42 £46.32

Code	Bristan Eco Taps – Spray Taps	Manufacturer Code	List Price £
SABR1158	Basin Taps Chrome Plated	SY ON 1/2 C CD	£50.14 £58.91
KSB15600	Spray Ceramic Disc Lever Basin Taps	SY SL 1/2 C CD	£76.45 £89.83
SABR0500	Spray Single Luxury Basin Tap	SY LUX 1/2 C	£42.78 £50.27
SABR1160	Spray Basin Mixer with pop-up waste	SY ON BAS C CD	£102.93 £120.94

Ideal Standard



Code	Inta Time Control Taps	Manufacturer Code	List Price £
INC160CP	INTATEC Non Concussive Basin Taps CP (Pair)	NC160CP	TBA TBA
PTO60080	INTA Infra-Red Battery Operated Basin Chrome Tap	IR180CP	TBA TBA
SAINT021	INTATEC Perfect Time Electronic Tap	IR162CP	£164.30 £193.05

Code	Meynell Time Control Taps	List Code	Price £
KBTW0012	MEYNELL Basin Mounted 10 Sec P/Action T/Flow Lever Tap CP	PEBF0835P	£89.00 £104.58
KBTW0060	MEYNELL Basin Mounted 10 Sec P/Action T/Flow Pillar Tap CP	PEBF0832P	£56.00 £65.80
KBCB1074	MEYNELL Push Action Bib Tap	2.1536.010	£52.00 £61.10

Code	Ideal Standard Self Closing Non-Concussive Taps	List Code	Price £
AS7239AA	Avon Twenty-One self-closing one taphole basin mixer – no waste	B8263AA	£136.62 £160.53
AB8267AA	Avon Twenty-One pair self closing basin taps with dual indices	B8267AA	£130.12 £152.89

Code	Ideal Standard Sensorflow/Infrared Taps	List Code	Price £
AA4171AA	Sensorflow Twenty-One one taphole Counter top mixer with built-in electronic sensor – Mains	A4171AA	£383.08 £450.12
AA4718AA	Sensorflow Twenty-One wall mounted 15cm tubular spout with built-in sensor – Mains	A4178AA	£361.54 £424.81

Code	Ideal Standard Mixer Taps with Outlet Flow Limiters	List Code	Price £
AB7886AA	Ceraplan single lever one taphole basin mixer with pop-up waste – chrome lever	B7886AA	£65.65 £77.14
AB4447AA	Sandringham S/L single lever one taphole basin mixer with pop-up waste – chrome lever	B4447AA	£58.55 £68.80

Any of the mixers above can be used in conjunction with Outlet Aired Flow Limiter L6982NU, to limit the maximum flow to 6 litres per minute at 3 bar.



WATER SAVING PRODUCTS

WATER SAVING SHOWERS



Code	Mira – Aerated Showers	Manufacturer Code	List Price £
SM216684	MIRA ECO BIR Head Chrome	2.1668.004	£86.00 £101.05
SM216683	MIRA ECO BIR Head White	2.1668.003	£74.00 £86.95
SM216682	MIRA ECO Handset Chrome	2.1668.002	£41.00 £48.18
SM216681	MIRA ECO Handset White	2.1668.001	£36.00 £42.30



Code	Bristan Showers & Flow Limiters	List Code	Price £
SABR0284	Flow Limiter – to 8 litres per minute	ECO SHW 08	£4.94 £5.80
SABR0322	Flow Limiter – to 10 litres per minute	ECO SHW 10	£4.94 £5.80
SABR0324	Flow Limiter – to 14 litres per minute	ECO SHW 14	£4.94 £5.80
SABR0530	Valve with adjustable riser and fast fit connections	AR SHXMTFF C	£148.83 £174.88
SABR0532	Valve with adjustable riser and fast fit connections	AR SHXSMFF C	£130.60 £153.46
BRSHCSMC	Artisan Thermostatic Recessed with Adjustable Riser	AR SHCSM C	£163.17 £191.72
SABR0462	Valve only and fast fit connections	AR SHXVOFF C	£98.91 £116.22
ARSHCVOC	Artisan Thermostatic Recessed Valve Only	AR SHCVO C	£130.87 £153.77
SABR0530	BRISTAN Artisan Thermo S/M B/S Vlv A/Rsr MF H/S & F/F Conn	AR SHXMTFF C	£148.83 £174.88
SABR0532	BRISTAN Artisan Thermo S/M B/S Vlv A/Rsr SF H/S & F/F Conn	ARSHXSMFFC	£130.60 £153.46

Ideal Standard

Code	Ideal Standard Showering – Shower Flow Limiters	Manufacturer Code	List Price £
AL6961AA	Shower Outlet Flow Limiter 8Lpm Chrome	L6961AA	£14.21 £16.70
AL6749AA	Shower Outlet Flow Limiter 9Lpm Chrome	L6749AA	£14.21 £16.70

Flow limiters are fitted between the valve and shower hose.

For fixed heads, flow limiter is fitted behind the wall between the valve and pipe.

The installer must be approved in the relevant technology to install all of the products listed in our Price Guide.

SUSTAINABLE BUILDING MATERIALS

OTHER PRODUCTS AVAILABLE FROM OUR GROUP – WALL AND FLOOR CONSTRUCTION

The following four pages provide a few examples of the wide range of sustainable building materials available within our group.

Wall and floor construction materials

In general, the less materials and energy that are used to carry out a project, the less impact there is on the environment. Therefore techniques like timber framing and the application of aluminium systems are among the most sustainable methods of building – and can earn up to an “A” rating in the Green Guide to Specification (dependent on materials used).

But traditional brick cavity wall construction can also perform well from the perspective of the whole life cycle. For example, using aerated blocks (for the inner leaf) and lime mortars makes the recycling of brickwork more feasible. These can also achieve up to an “A” rating in Green Guide to Specification.

Aerated concrete block with PFA

One of the more sustainable products on the market is the aerated concrete block with PFA.

Aerated concrete blocks are a versatile building material offering a range of benefits. They're strong, lightweight, durable and easy to use. Blocks comply with Part L of the building regulations for thermal insulation and Part E for sound insulation.

Where can they be used?

- Foundations
- Beam and block floors
- Load-bearing and non load-bearing walls.

They're truly multi-purpose. In fact, they could be used to construct an entire building.

Why are they sustainable?

Compared to dense aggregate blocks they offer a more sustainable solution for block construction because:

- The blocks are made with up to 80% pulverised fuel ash (PFA), a by-product from coal-burning power stations which is both stable and environmentally friendly.
- Generally they create remarkably high thermal insulation – lowering energy consumption for the heating of buildings.
- Blocks are easy to cut, reducing the amount of waste created on-site.



Lime products

Lime mortars, render and plaster have been used in the conservation and restoration markets for a long time, but they also have many benefits over cement and gypsum for standard construction. Lime products are strong, flexible and permeable so expansion gaps and cracks in render are avoided and moisture content in the masonry is also reduced.

Why are they sustainable?

They have many benefits over cement or gypsum products:

- The manufacture and use of lime products is better for the environment because they generate 20% less CO₂ emissions to manufacture than standard mortars and they also re-absorb CO₂ during the curing process. This is better for the building's longevity because lime breathes, reducing damp problems in walls.
- Lime mortar can be recycled as can stone or brick bonded by lime.

Where can they be used?

There are two types of lime mortar:

- Hydraulic lime – sets on exposure to the air.
- Non-hydraulic lime – sets on contact with water.

These products can be used for mortar and pointing, or rendering and plastering in most circumstances.

Talk to our branch staff for further information on how these products could be used in your project.



Plasterboard

Plasterboard is a widely used material for walls and ceilings and is typically made from gypsum. Alternatives that combine high proportions of recycled paper and water with raw gypsum are now available. They create a dense sheet material that offers high levels of fire resistance, acoustic insulation, impact strength and moisture resistance, while reducing the impact on the environment.

We are able to offer a full range of plasterboard and other sheet materials that either use a high proportion of recycled gypsum, or reduce the amount of gypsum used in the product.

Damp-proof Membranes

Water penetration is a prime cause of deterioration in building structures and materials, which makes the damp-proof membrane (DPM) a vital part of any building. Using recycled materials in the production of DPM dramatically reduces the environmental impact of the product.

SUSTAINABLE BUILDING MATERIALS

OTHER PRODUCTS AVAILABLE FROM OUR GROUP – DRAINAGE & WATER CONSERVATION

With the onset of climate change, winters are predicted to be wetter with heavier, more frequent rain. Summers will be drier and the average temperature could rise by up to 3.5°C.

We now have drainage systems that offer more sustainable solutions – either through using materials that have a reduced impact on the environment or by dealing with surface water run-off.

Sustainable Urban Drainage Systems

SUDS embraces a wide variety of drainage techniques including:

- Rainwater harvesting
- Porous paving
- Green roofs
- Filter drains and strips
- Soak-aways
- Swales
- Basins and ponds

Why are they sustainable?

SUDS are more sustainable because they:

- Reduce the impact of urbanisation on flooding by managing run-off flow rates
- Maintain or improve water quality
- Complement their environmental setting and the needs of the local community
- Nurture wildlife habitats in urban watercourses
- Encourage natural groundwater recharge where appropriate

There's no single drainage solution for a site. In most cases, a combination of techniques will be required.



Porous paving

Porous paving is one of the key technologies behind SUDS. As the percentage of open ground is reduced, rainfall that would have been naturally absorbed and retained by the ground is diverted, resulting in large volumes of run-off

How does it work?

- Porous paving allows the water to pass between, or through, the paving and used in conjunction with soak-away, attenuation or rainwater harvesting systems help to control the water at source.

Where can it be used?

- There are a number of different systems available for particular circumstances (issues such as traffic usage need to be taken into account).
- A qualified engineer should be employed to design the system, based on specific site requirements.



Soak-aways and attenuation systems

Designed to hold excess water during heavy rainfall and then gradually release stored water in a controlled manner, soak-aways and attenuation systems come in a variety of formats.

Soak-aways

Traditionally a hole in the ground filled with old bricks or gravel, modern soak-away systems are either empty chambers or honeycomb structures offering far greater storage capacity.

How do they work?

- By accommodating ground water until it can soak away into the surrounding permeable ground.
- They allow surface water to be dealt with at source rather than being diverted to sewerage systems.

Where can they be used?

- There are a number of conditions that affect the performance and location of a soak-away – including the size of the area to be drained and the type of soil/sub-soil in the area, plus the level of the natural water table.
- They must also be positioned lower than the area being drained, at least five metres away from buildings and in a site that will not saturate the foundations of any structure.

SUSTAINABLE BUILDING MATERIALS

OTHER PRODUCTS AVAILABLE FROM OUR GROUP – **ROOFING AND INSULATION**

Roofing systems play a vital role in maximising the efficiency of a building. As well as providing shade and shelter from the elements, structural support and vital insulation, a well-designed roof can meet a number of other requirements that contribute to a more sustainable building.



Roofing tiles

Choosing the right surface covering can also improve the sustainability of a roof.

Tiles are the most commonly specified roof surface in the UK. If you use reclaimed products or those with a high level of recycled content, you can dramatically improve the lifespan of the materials.

What's available?

Reconstituted slate tiles contain up to 95% recycled content which makes them one of the most sustainable and widely available roof surface materials.

Locally re-claimed clay tiles and natural slates are also available in most parts of the country and again offer a sustainable option due to the extended life of the product.

Where can I get them?

Jewson offer a wide range of roofing materials together with advice on which tiles will best suit your project. Please call your local branch for further information.

Breather Membranes

You can increase the sustainability of a pitched roof by choosing the right lining.

Traditional ventilated roofs usually incorporate a heavyweight bitumen felt. However, you could opt for one of the many breather membranes on the market. They're much lighter and are made from fully recyclable materials.

Recent changes to Building Regulations Part L – Conservation of Fuel and Power, and requirements laid out in initiatives such as the Code for Sustainable Homes, place increasing importance on reducing energy use in buildings.

The major benefit of insulation is to reduce energy consumption and the CO₂ needed to heat a building. So virtually any form of insulation offers a sustainable solution. However forms like HCFC blown insulation foams are less attractive because of the ozone depletion and climate change caused by releasing HCFCs into the atmosphere during production.

Glass Mineral Wool Insulation

Glass mineral wool insulation is the most commonly used form of insulation in the UK (by volume) and is in itself, an environmentally sound product.

Rock Mineral Wool Insulation

Rock mineral wool insulation is also widely used in the UK.

Cellulose Insulation

Cellulose insulation is made entirely from recycled newspaper in the UK. Whilst not strictly natural insulation, it's healthy to use and delivers an unbeatable performance in certain situations.

Hemp Insulation

Hemp Insulation is a natural insulation primarily made from hemp fibres, a continuously renewable source. It offers excellent thermal and acoustic insulation properties and is also breathable, absorbing and releasing moisture without degrading.



Sheep's wool insulation

Sheep's wool is an abundant, safe, natural and healthy product.

Its thermal and acoustic properties make it an excellent alternative to artificial insulation which can be used in roof, wall and floor constructions. It offers good fire resistance with the ability to melt away from flames and extinguish itself.

It's also breathable, rapidly absorbing and releasing water vapour, reducing condensation and helping to keep buildings cool in the summer and warm in the winter. This also makes it suitable for timber frame constructions.

For further information, please speak to your local branch's sales-team

SUSTAINABLE BUILDING MATERIALS

OTHER PRODUCTS AVAILABLE FROM OUR GROUP – **TIMBER**

Timber is the only truly sustainable building resource – naturally renewable, strong and easy to recycle – provided it comes from well-managed forests.

It provides a simple way to reduce CO₂ emissions through:

- The carbon sink effect of the forests
- The carbon storage effect of wood products
- Substitution for carbon-intensive materials

There's no other commonly-used building material that requires so little energy for production.

Chain of Custody Timber

Taking our commitment still further, over 180 Jewson branches are able to offer Chain of Custody certification for timber products certified by all the schemes specified in official Government procurement policy.



What is Chain of Custody?

Chain of Custody uses independent audits and rigorous documentation to track certified timber from forest and logging through sawmill, factory and distributor, to timber merchant and contractor.

This provides a high level of transparency and traceability to guarantee compliance with demands for ethically sourced timber products.



Timber that qualifies for Chain of Custody certification is sourced from 'legal' or 'legal and sustainable' forests. Both guarantee timber has been harvested legally and as part of an overall forest management system.

Why is it important?

Certification of timber supply is becoming ever-more important as Government and other contractors – such as those registered with the BRE Ecohomes scheme – increasingly demand that timber products used are from environmentally accountable sources.



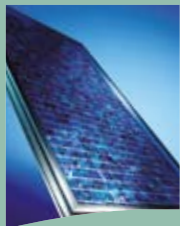
WHAT CAN WE PROVIDE?

We offer a comprehensive range of products with COC certification, including:

- Structural Timber
- I-joists
- Metal Web Joists
- Roof Trusses
- Smart Roof
- Machined Softwood
- Clear Softwoods
- Temperate Hardwoods
- MDF Mouldings
- MDF and OSB
- Chipboard
- Structural Spruce Plywood
- Hardwood Plywood
- Softwood Plywood
- Doors & Joinery
- Stairs
- Fencing Products
- Decking Products
- Kitchen Cabinets

COC branches may stock products certified to any of the Government schemes. It is therefore essential you discuss your requirements prior to your order being placed.





For more information on any of the products in this guide please visit www.greenworks-energy.co.uk or call 0800 077 8965

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