

KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
	<b>'In just 30 minutes, the sun provides enough energy to the earth to sustain mankind for a year'.</b>			up to 60% of a homes hot water needs during the summer. Even during the winter months, hot water can still be generated.			<b>Benefits:</b>	
	Utilising the suns energy, a truly renewable energy source; with the use of solar thermal panels or evacuated tubes and a specially designed water storage cylinder, can provide			Furthermore your carbon footprint is dramatically reduced so it is good for the environment.			<ul style="list-style-type: none"> <li>● Range of on-roof, in-roof and flat solar collector panels including highly efficient evacuated tubes</li> <li>● Government grants available</li> <li>● Reduces your carbon footprint</li> <li>● Compatible with most residential heating systems in the UK</li> </ul>	

KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
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## Solar Thermal SolarSmart Package

**This system must be ordered as a complete package by choosing three components (A, B and C)**

### A Water Storage

ALSS90	Alpha SolarSmart 90 Pack 6.4000090 comprises: SolarSmart 90ltr Cylinder SolarSmart 5ltr Drainback Unit SolarSmart Unvented Kit	<b>DG9029</b> <b>1375.00</b>
<b>OR</b>		
ALSS90M	Alpha SolarSmart 90 Pack for Multi Panels 6.40000910 comprises: SolarSmart 90ltr Cylinder SolarSmart 10ltr Drainback Unit SolarSmart Unvented Kit	<b>1576.00</b>
<b>OR</b>		
ALSS150	Alpha SolarSmart 150 Pack 6.40000150 comprises: SolarSmart 150ltr Cylinder SolarSmart 10ltr Drainback Unit SolarSmart Unvented Kit	<b>1995.00</b>

### B Flat Panel Collector Options

AL4000600	SolarSmart Landscape Collector 6.4000600	<b>485.00</b>
<b>OR</b>		
AL4000700	SolarSmart Portrait Collector 6.4000700	<b>464.00</b>

### C Fixing Options

AL4000650	SolarSmart Landscape Flashing Kit 6.4000650	<b>260.00</b>
<b>OR</b>		
AL4000750	SolarSmart Portrait Flashing Kit 6.4000750	<b>265.00</b>
<b>OR</b>		
AL4000760	Alpha Port Multi Panel Flashing Kit LEFT	<b>240.00</b>
<b>OR</b>		
AL4000770	Alpha Port Multi Panel Flashing Kit CENTRE	<b>240.00</b>
<b>OR</b>		
AL4000780	Alpha Port Multi Panel Flashing Kit RIGHT	<b>240.00</b>
<b>OR</b>		
AL4000800	SolarSmart Landscape only Flat Roof Kit 6.4000800	<b>265.00</b>

**OR**

AL4000850	SolarSmart On-Tile Kit 6.4000850	<b>495.00</b>
<b>OR</b>		
AL4000860	SolarSmart On-Slate Kit 6.4000860	<b>510.00</b>
<b>OR</b>		
AL4008010	Alpha On Roof Basic Kit	<b>372.00</b>
<b>OR</b>		
AL4008020	Alpha On Roof Tile Kit	<b>120.00</b>
<b>OR</b>		
AL4008030	Alpha On Roof Slate Kit	<b>135.00</b>

**Accessories**

AL4009010	SolarSmart 90 Cylinder	<b>899.00</b>
AL4009020	SolarSmart 90 Drainback Unit	<b>294.00</b>
AL4009030	SolarSmart 90 Unvented Kit	<b>182.00</b>
AL4009050	Alpha SS150 Unvented Cylinder Assy	<b>1155.00</b>
AL4009060	Alpha SS150 Drain Back Unit 10ltr	<b>495.00</b>
AL4009070	Alpha SS150 System Control Box	<b>140.00</b>
AL4009080	Alpha SS150 Unvented Kit 12ltr	<b>205.00</b>

**Portrait collector dimensions:**  
2230mm high x 1120mm wide x 92mm - weight 40kg

**Landscape collector dimensions:**  
1120mm high x 2230mm wide x 92mm - weight 40kg





## Solar Thermal Solar Thermal Packs

**DG9033**

A3023217	2 Solar Panel On Tile Pack	<b>2824.00</b>
A3023218	3 Solar Panel On Tile Pack	<b>3572.00</b>
A3023219	2 Solar Panel Ground/Flat Pack	<b>2824.00</b>
A3023220	2 Solar Panel Ground/Flat Pack	<b>3692.00</b>

## Solar Thermal Accessories

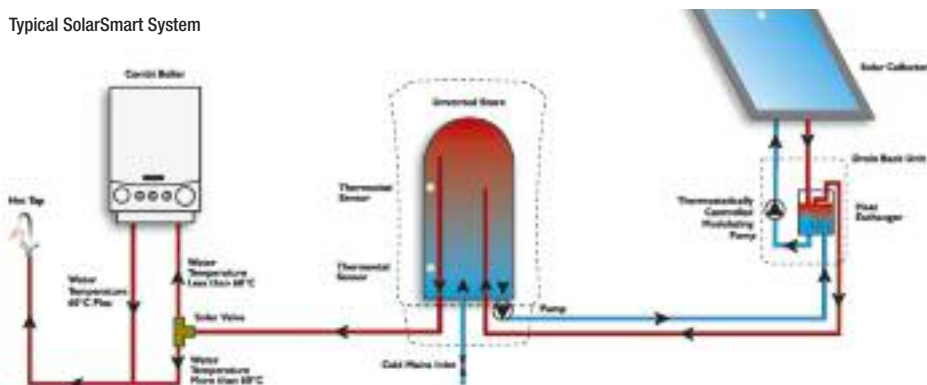
**DG9098**

A3024056	Pump Group	<b>523.61</b>
A3104047	Solar Controller & Probes	<b>252.15</b>
A3024017	Connection Kit	<b>83.78</b>
A3024018	Additional Connection Kit	<b>38.28</b>
A4448666451	Expansion Vessel & Bracket	<b>141.33</b>
A3107024	Rail Kit - 2 Collectors	<b>334.68</b>
A3107025	Rail Kit - 3 Collectors	<b>342.08</b>
A3020008	Solar Collector CF2.0	<b>554.06</b>
A3024011	Ground/Flat Frame 1 Collector	<b>223.26</b>
A3024012	Ground/Flat Frame 2 Collectors	<b>318.85</b>
A3024013	Ground/Flat Frame 2 Plus Collectors	<b>285.40</b>
A3820001	Glycol 20ltr	<b>170.13</b>
A3820002	Glycol 10ltr	<b>85.06</b>
A3024069	Insulated Flexi Twin Pipes 10m	<b>481.62</b>
		<b>DG9098</b>
A3024019	Ground/Flat Roof Frame 1 Collector SYS2.5	<b>114.03</b>
A3024020	Ground/Flat Roof Frame 2 Collector2 SYS2.5	<b>336.95</b>
A3024021	Ground/Flat Roof Frame Additional Collector SYS2.5	<b>358.28</b>
A3024025	SYS2.5 Solar Panel	<b>66.53</b>
A3020005	Hydraulic Kit	<b>66.53</b>
A3024026	Connection Kit Additional Collector SYS2.5	<b>59.16</b>



Ariston Solar Collector

Typical SolarSmart System



KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
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Baxi Solarflo Pack

## Solar Thermal Solar System

Does not include twin coil cylinder which should be selected from page 193.

Please refer to manufacturers technical guide to ensure correct sizing of the cylinders

ETC = Evacuated Tube Collector

On Roof Slate & Tile	DG9060
BSF5130214 Solarflo 20 ETC On Roof Slate & Tile	<b>2314.00</b>
BSF5130215 Solarflo 30 ETC On Roof Slate & Tile	<b>2886.00</b>
On Roof A Frame	
BSF5130216 Solarflo 20 ETC On Roof A Frame	<b>2366.00</b>
BSF5130217 Solarflo 30 ETC On Roof A Frame	<b>2938.00</b>
Facade & Floor	
BSF5130232 Solarflo 20 ETC On Facade & Floor	<b>2262.00</b>
BSF5130233 Solarflo 30 ETC On Facade & Floor	<b>2834.00</b>
On Roof	
BSF5122262 Solarflo 1 Panel On Roof A Frame	<b>1660.36</b>
BSF5122263 Solarflo 2 Panel On Roof A Frame	<b>1928.16</b>
BSF5122264 Solarflo 3 Panel On Roof A Frame	<b>2743.88</b>
On Roof Slate & Tile	
BSF5122265 Solarflo 1 Panel On Roof Slate & Tile	<b>1580.02</b>
BSF5122266 Solarflo 2 Panel On Roof Slate & Tile	<b>1840.32</b>
BSF5122267 Solarflo 3 Panel On Roof Slate & Tile	<b>2276.30</b>
In Roof Slate	
BSF5122245 Solarflo 1 Panel In Roof Slate	<b>1821.04</b>
BSF5122246 Solarflo 2 Panel In Roof Slate	<b>2340.57</b>
In Roof Tile	
BSF5122271 Solarflo 1 Panel In Roof Tile	<b>1821.04</b>
BSF5122272 Solarflo 2 Panel In Roof Tile	<b>2340.57</b>

Note: Cylinder is not included in the above kits. Please select the required cylinder from the Heatrae Megaflo Solar range on page 193

Accessories - order as required	DG9060
BSF5122237 13m Solar Sensor Wire	<b>16.07</b>
BSF5122238 Pipe Kit 30m	<b>369.56</b>
BSF5122762 6 Off 22mm Pipe Compression Male	<b>37.49</b>
BSF5122763 6 Off 22mm Pipe Compression Female	<b>37.49</b>
BSF5122764 2 Off 22mm Tee Compression Fitting	<b>55.71</b>
BSF5122765 Relay Direct Heating	<b>42.85</b>
BSF5119559 Antifreeze Test Kit	<b>203.56</b>
BSF5129979 On Roof East West Array Kit 5129979	<b>535.60</b>
BSF5129981 In Roof East West Array Kit 5129981	<b>653.43</b>
BSF5129982 In Roof East West Array Kit 5129982	<b>653.43</b>
BSF5130243 Multifit Additional 10 ETC Slate & Tile	<b>858.00</b>
BSF5129980 Multifit ETC East West Array Kit	<b>982.80</b>
BSF5119549 Multifit Solar Fluid 20ltr Fernox S1	<b>57.84</b>
BSF5130234 Multifit Electric Solar Fluid Filling Pump	<b>306.80</b>
MF23155602 Multifit Solar Fluid Filling Pump	<b>93.60</b>

### Solar Pack Contents

Flat Plate/Evacuated Tube Collector	YES
Hydraulic Pump Station Pre Wired	YES
Advanced Solar Differential Control	YES
Solar Heat Transfer Fluid	YES
Solar Expansion Vessel	YES
Solar Expansion Vessel Self Sealing Shut Off Valve	YES
Roof Mounting Brackets/Flashing Kit	YES
Stainless Steel Connection Hose 2 x 2m	YES
Solar Gain Sensor	YES
Solar Sensor Extension Wire 13m	YES
Solar Gain Flow Meter	YES
30m Pipe Kit (ETC only)	YES



Ecotube Kit

## Solar Thermal

When placing order please confirm whether its a pitched or flat roof or wall mounted

Ecotube Kits	DG9089
REKS001 Single Panel South Facing (210-300L)	<b>1917.00</b>
REKS002 Two Panel South Facing (210-300L)	<b>2594.44</b>
REKEW003 Single Panel East/West (210-300L)	<b>2977.78</b>
Accessories - order as required	DG9089
RDF100 DF 100 Solar Panel	<b>1083.33</b>
RPUMPS2F 1 Pumpstation S2F	<b>1015.00</b>
RPUMPEW 1 Pumpstation EW D2F c/w Controller	<b>1001.67</b>
RDN10M 1 x 10m Solar Hose	<b>338.33</b>
RDN15M 1 x 15m Solar Hose	<b>471.25</b>
RDN25M 1 x 25m Solar Hose	<b>773.33</b>
RSOLARHOSE 1 x Pack of 4 Solar Hose Fixing Brackets	<b>14.13</b>
RANTIFREEZE 1 x 10ltr Antifreeze	<b>48.33</b>
R18EXVESS 1 x 18ltr Solar Expansion Vessel c/w Mounting Kit	<b>107.55</b>
R24EXVESS 1 x 24ltr Solar Expansion Vessel c/w Mounting Kit	<b>119.63</b>
R35EXVESS 1 x 35ltr Solar Expansion Vessel c/w Mounting Kit	<b>182.47</b>
R50EXVESS 1 x 50ltr Solar Expansion Vessel c/w Mounting Kit	<b>222.33</b>
RHT 1 x 2m x 22mm HT Installation (19mm Thick)	<b>35.28</b>
RDISPLAY SD3 Smart Display c/w Fitting Pack	<b>263.42</b>
RSOLARFIT 1 x Solar Fitting/Connections (1 Pack per Panel)	<b>74.68</b>
RAAV 1 x AAV/Ancillary Pack (1 per System)	<b>106.98</b>
RLS2 1 x Roof Flashing Kit for Pitched Roof	<b>120.83</b>
RPITCH 1 x Pitched Roof Mounting Kit (1 per Panel)	<b>75.77</b>
RFLAT 1 x 4 Flat Roof Padstones (1 per Panel)	<b>36.25</b>
RPUMPA Pumpstation Flowcon	<b>506.67</b>

### Solar pack contents based on a 1 panel kit

Pump Station with Controller
10m Solar Hose
Solar Hose Fixing Brackets
Solar Heat Transfer Fluid
Solar Hose Fittings
18ltr Expansion Vessel Mounting Kit
10ltr Antifreeze
Isolation Valve
Automatic Air Vent
Air Separator
Solar Roof Flashing & Mounting Brackets (for Pitched Roof) or Rubber Padstones (for Flat Roof)
22mm x 4m HT Insulation
Copper Fitting Pack
Digital Solar Display



## Solar Thermal Clearly Solar System

### Solar Packs

Does not include twin coil cylinder which should be selected from page 193. Please refer to manufacturers technical guide to ensure correct sizing of the cylinders

<b>In-roof Packs - Vertical</b>	<b>DG9073</b>
GW20078858 1 Panel	<b>1324.00</b>
GW20078859 2 Panels	<b>1873.00</b>
GW20078860 3 Panels	<b>2513.00</b>
<b>In-roof Packs - Horizontal</b>	
GW20078870 1 Panel	<b>1499.00</b>
GW20078871 2 Panels	<b>2278.00</b>
GW20078872 3 Panels	<b>3018.00</b>
<b>On-roof Packs - Tile Packs - Vertical</b>	
GW20078852 1 Panel	<b>1098.00</b>
GW20078853 2 Panels	<b>1726.00</b>
GW20078854 3 Panels	<b>2305.00</b>
<b>On-roof Packs - Tile Packs - Horizontal</b>	
GW20078864 1 Panel	<b>1098.00</b>
GW20078865 2 Panels	<b>1726.00</b>
GW20078866 3 Panels	<b>2305.00</b>
<b>On-roof Packs - Slate Packs - Vertical</b>	
GW20078855 1 Panel	<b>1098.00</b>
GW20078856 2 Panels	<b>1726.00</b>
GW20078857 3 Panels	<b>2305.00</b>
<b>On-roof Packs - Slate Packs - Horizontal</b>	
GW20078867 1 Panel	<b>1098.00</b>
GW20078868 2 Panels	<b>1726.00</b>
GW20078869 3 Panels	<b>2305.00</b>
<b>A-Frame Packs - Vertical</b>	
GW20078861 1 Panel	<b>1250.00</b>
GW20078862 2 Panels	<b>1935.00</b>
GW20078863 3 Panels	<b>2571.00</b>
<b>A-Frame Packs - Horizontal</b>	
GW20078873 1 Panel	<b>1254.00</b>
GW20078874 2 Panels	<b>1943.00</b>
GW20078875 3 Panels	<b>2583.00</b>
<b>Developer Pack A - Vertical (First Fix)</b>	
GW20078876 1 Panel	<b>959.00</b>
GW20078877 2 Panels	<b>1454.00</b>
GW20078878 3 Panels	<b>2089.00</b>
<b>Developer Pack A - Horizontal (First Fix)</b>	
GW20078879 1 Panel	<b>1134.00</b>
GW20078880 2 Panels	<b>1859.00</b>
GW20078881 3 Panels	<b>2594.00</b>
<b>Developer Pack B (Second Fix)</b>	
GW20078882 1 Panel	<b>365.00</b>
GW20080375 2 Panels	<b>419.00</b>
GW20080376 3 Panels	<b>424.00</b>
<b>Pipework Kit</b>	
GW20080631 Solar Pipework Kit	<b>257.00</b>
<b>Accessories - order separately as required</b>	<b>DG9074</b>
GW10006295 Horizontal Flat Plate Collector	<b>450.00</b>
GW10006294 Vertical Flat Plate Collector	<b>450.00</b>
GW20060302 Roof Brackets for Concrete Tiles x 4 (One Collector -Type P)	<b>99.00</b>
GW20080149 Roof Brackets for Slate Tiles x 4 (One Collector -Type S)	<b>99.00</b>
GW20060316 Vertical In-Roof 1 Collector	<b>325.00</b>
GW20060318 Vertical In-Roof 2 Collectors	<b>330.00</b>
GW20060327 Vertical In-Roof Additional Collector	<b>145.00</b>
GW20060315 Horizontal In-Roof 1 Collector	<b>500.00</b>
GW20060317 Horizontal In-Roof 2 Collectors	<b>735.00</b>
GW20060326 Horizontal In-Roof Additional Collector	<b>245.00</b>
GW20060311 Horizontal A-Frame	<b>110.00</b>
GW20060312 Vertical A-Frame	<b>110.00</b>
GW20060307 Horizontal Mounting Bar A-Frame	<b>35.00</b>
GW20060308 Vertical Mounting Bar A-Frame	<b>31.00</b>
GW20060313 Gravel Plate 2 Piece (H)	<b>61.00</b>
GW20060314 Gravel Plate 3 Piece (V)	<b>92.00</b>

GW20060207 Easy Fit Hydraulic Connection On-Roof	<b>55.00</b>
GW20054961 Solar Pump Station	<b>205.20</b>
GW20054960 Solar Controller (Inc 1 x Collector & 2 x Cylinder Sensors)	<b>129.20</b>
GW20054963 Expansion Vessel 18ltr	<b>33.25</b>
GW20054992 Expansion Vessel 25ltr	<b>36.25</b>
GW20054993 Expansion Vessel 35ltr	<b>40.99</b>
GW20054966 Protection Vessel for Expansion Vessel 6ltr	<b>23.00</b>
GW20054967 Thermostatic Mixing Valve	<b>32.30</b>
GW20054968 Solar Fluid 20ltr	<b>51.30</b>
GW20054969 Automatic Air Separator	<b>53.00</b>
GW20054983 Solar Fluid 10ltr	<b>25.00</b>
GW20054984 Antifreeze Test Kit	<b>75.00</b>
GW20054985 Safety Belt for Roof Working	<b>221.35</b>
GW20054986 Filling Pump	<b>176.00</b>
GW20054990 Pipe Clamps for Flexible Pipe 2-in-1 DN16	<b>6.00</b>
GW20054994 System Flexible Pipe 2-in-1 x 15m DN16	<b>259.00</b>
GW20054995 System Flexible Pipe 2-in-1 x 15m DN20	<b>370.00</b>
GW20055012 Pipe Clamps for Flexible Pipe 2-in-1 DN20	<b>7.00</b>
GW20055014 Collector Flexible Pipe 2 x 1m DN16	<b>23.00</b>
GW20054964 System Flexible Pipe 1 x 15m DN16	<b>116.00</b>
GW20054965 System Fittings Pack for DN16 Pipe	<b>25.00</b>
GW20004239 Collector Sensor	<b>7.00</b>



Glow-worm Clearly Solar

### Clearly Solar Packs

		Vertical 1 Panel	Vertical 2 Panel	Vertical 3 Panel	Horizontal 1 Panel	Horizontal 2 Panel	Horizontal 3 Panel
<b>In-Roof Packs</b>		GW20078858	GW20078859	GW20077860	GW20078870	GW20078871	GW20078872
Vertical Flat Plate Collector	GW10006294	1	2	3	-	-	-
In-Roof 1 Collector Kit - Vertical	GW20060316	1	-	-	-	-	-
In-Roof 2 Collectors Kit - Vertical	GW20060318	-	1	1	-	-	-
In-Roof Additional Collector - Vertical	GW20060327	-	-	1	-	-	-
Horizontal Flat Plate Collector	GW10006295	-	-	-	1	2	3
In-Roof 1 Collector Kit - Horizontal	GW20060315	-	-	-	1	-	-
In-Roof 2 Collectors Kit - Horizontal	GW20060317	-	-	-	-	1	1
In-Roof Additional Collector - Horizontal	GW20060326	-	-	-	-	-	1
Easy Fit Hydraulic Connection Kit	GW20065271	1	1	1	1	1	1
Easy Fit Hydraulic Extension Kit	GW20059909	-	1	2	-	1	2
Solar Controller	GW20054960	1	1	1	1	1	1
Solar Pump Station	GW20129143	1	1	1	1	1	1
Expansion Vessel 18ltr	GW20054963	1	-	-	1	-	-
Expansion Vessel 25ltr	GW20054992	-	1	-	-	1	-
Expansion Vessel 35ltr	GW20054993	-	-	1	-	-	1
Solar Fluid 20ltr	GW20054968	1	2	2	1	2	2
Protection Vessel	GW20054966	-	1	1	-	1	1
Automatic Air Separator	GW20054969	1	1	1	1	1	1
<b>Developer Pack A</b>		GW20078876	GW20078877	GW20078878	GW20078879	GW20078880	GW20078881
Vertical Flat Plate Collector	GW10006294	1	2	3	-	-	-
In-Roof 1 Collector Kit - Vertical	GW20060316	1	-	-	-	-	-
In-Roof 2 Collectors Kit - Vertical	GW20060318	-	1	1	-	-	-
In-Roof Additional Collector - Vertical	GW20060327	-	-	1	-	-	-
Horizontal Flat Plate Collector	GW10006295	-	-	-	1	2	3
In-Roof 1 Collector Kit - Horizontal	GW20060315	-	-	-	1	-	-
In-Roof 2 Collectors Kit - Horizontal	GW20060317	-	-	-	-	1	1
In-Roof Additional Collector - Horizontal	GW20060326	-	-	-	-	-	1
Easy Fit Hydraulic Connection Kit	GW20065271	1	1	1	1	1	1
Easy Fit Hydraulic Extension Kit	GW20059909	-	1	2	-	1	2
Solar Controller	GW20054960	1	1	1	1	1	1
<b>Developer Pack B</b>		1 Panel	2 Panel	3 Panel			
		GW20078882	GW20080375	GW20080376			
Solar Pump Station	GW20129143	1	1	1			
Expansion Vessel 18ltr	GW20054963	1	-	-			
Expansion Vessel 25ltr	GW20054992	-	1	-			
Expansion Vessel 35ltr	GW20054993	-	-	1			
Solar Fluid 20ltr	GW20054968	1	2	2			
Protection Vessel 6ltr	GW20054966	-	1	1			
Automatic Air Separator	GW20054969	1	1	1			



KEYWORD DESCRIPTION PRICE £



## Solar Thermal

### Solar Thermal Packs

DG9039

ITS8000PK2	2 Collector On Roof Pack	<b>1435.78</b>
ITS8000PK3	3 Collector On Roof Pack	<b>2035.08</b>
ITS8000PK4	4 Collector On Roof Pack	<b>2484.21</b>
ITS8001PK2	2 Collector On Roof Cylinder Pack	<b>1649.12</b>
ITS8001PK3	3 Collector On Roof Cylinder Pack	<b>2249.82</b>
ITS8001PK4	4 Collector On Roof Cylinder Pack	<b>3108.77</b>

### Solar Thermal Accessories

DG9034

IT206500	Thermasol 1730 x 1170mm TS8000 On Roof Collector	<b>405.61</b>
IT206507	Thermasol 2058 x 1227mm TS8001 In Roof Collector	<b>475.78</b>
IT206508	In Roof Mounting Set 2 Coils	<b>80.00</b>
IT206512	In Roof Flashing Set 2 Coils - Tile	<b>301.75</b>
IT206511	In Roof Mounting Set 1 Coil	<b>64.56</b>
IT206509	Wooden Wedge For 1 In Roof Collector	<b>18.94</b>
IT206501	Basic On Roof Mounting Set 2 Coils	<b>99.64</b>
IT206503	On Roof Support Rails 2 Coil	<b>67.36</b>
IT206505	Basic On Roof Mounting Set 1 Extra Coil	<b>47.01</b>
IT206506	On Roof Support Rails 2 Extra Coil	<b>36.49</b>
IT206504	Connection Piece For Joining Rail	<b>17.54</b>
IT206529	Twin Line Pump Station c/w Air Sep, Expansion Vessel, Hose & Bracket	<b>306.66</b>
IT206530	Solar Controller	<b>164.91</b>
IT206532	Solar 18ltr Expansion Vessel	<b>42.10</b>
IT206533	Solar 24ltr Expansion Vessel	<b>52.28</b>
IT206535	Solar 100ltr Expansion Vessel	<b>197.89</b>
IT206536	Pre Mix Glycol 10ltrs	<b>36.49</b>
IT206537	Pre Mix Glycol 20ltrs	<b>72.98</b>
IT206538	Pre Mix Glycol 25ltrs	<b>91.22</b>
IT206518	Through Roof Hoses Lagged 1m (pair)	<b>42.10</b>



RM Solar Combi Konvector Pack

## Solar Thermal

### Solar System

DG9094

#### RM Solar Combi Konverter

RM1CKO	1 Panel Combi Konverter On Roof	<b>2647.45</b>
RM1CKI	1 Panel Combi Konverter In Roof	<b>3192.45</b>
RM2CKO	2 Panel Combi Konverter On Roof	<b>3290.85</b>
RM2CKI	2 Panel Combi Konverter In Roof	<b>3877.48</b>

#### RM Solar Developer Pack

RM2DPO210	2 Panel On Roof + 210l Cylinder	<b>2647.45</b>
RM2DPI210	2 Panel In Roof + 210l Cylinder	<b>3215.15</b>



# More reasons to choose Ideal

## Imagine a solution for every situation



### Combination, Heat Only & System Boilers, Photovoltaics, Solar Thermal & Heat Pumps



Solar Photovoltaic



Evacuated Tubes



Flat Plates



Air & Ground Source

For further details on Ideal's Heating & New Energy Solutions or to request an information pack...

...visit [www.idealheating.com](http://www.idealheating.com)

Heating Solutions

KEYWORD DESCRIPTION PRICE £



## Solar Thermal

### Solar Packs

Does not include twin coil cylinder which should be selected from page 193. Please refer to manufacturers technical guide to ensure correct sizing of the cylinder.

#### Kingspan Solar On Roof Packs DG9081

1801ORAAPK	1 Panel Pack - A Frame	<b>1624.70</b>
1801ORNAPK	1 Panel Pack - Pitch Roof	<b>1528.88</b>
1802ORAAPK	2 Panel Pack - A Frame	<b>2541.06</b>
1802ORAAEWPK	2 Panel E/W Pack - A Frame	<b>2827.10</b>
1802ORNAPK	2 Panel Pack - Pitch Roof	<b>2349.42</b>
1802ORNAEWPK	2 Panel E/W Pack - Pitch Roof	<b>2635.46</b>
1803ORNAPK	3 Panel Pack - Pitch Roof	<b>3169.96</b>
2101ORAAPK	1 Panel Pack - A Frame	<b>1624.70</b>
2101ORNAPK	1 Panel Pack - Pitch Roof	<b>1528.88</b>
2102ORAAPK	2 Panel Pack - A Frame	<b>2541.06</b>
2102ORNAPK	2 Panel Pack - Pitch Roof	<b>2349.42</b>
2102ORNAEWPK	2 Panel E/W Pack - Pitch Roof	<b>2635.46</b>
2103ORNAPK	3 Panel Pack - Pitch Roof	<b>3169.96</b>

#### Kingspan Solar In Roof Packs

1801FIRAPK	1 Panel Pack - Flat Tiles	<b>1775.08</b>
1801PIRAPK	1 Panel Pack - Pantiles	<b>1775.08</b>
1802FIRAPK	2 Panel Pack - Flat Tiles	<b>2675.00</b>
1802FIRAEWPK	2 Panel E/W Pack - Flat Tiles	<b>3127.86</b>
1802PIRAPK	2 Panel Pack - Pantiles	<b>2675.00</b>
1802PIRAEWPK	2 Panel E/W Pack - Pantiles	<b>3127.86</b>
1803FIRAPK	3 Panel Pack - Flat Tiles	<b>3588.54</b>
2101FIRAPK	1 Panel Pack - Flat Tiles	<b>1775.08</b>
1803PIRAPK	3 Panel Pack - Pantiles	<b>3588.54</b>
2101PIRAPK	1 Panel Pack - Pantiles	<b>1775.08</b>
2102FIRAPK	2 Panel Pack - Flat Tiles	<b>2675.00</b>
2102FIRAEWPK	2 Panel E/W Pack - Flat Tiles	<b>3127.86</b>
2102PIRAPK	2 Panel Pack - Pantiles	<b>2675.00</b>
2102PIRAEWPK	2 Panel E/W Pack - Pantiles	<b>3127.86</b>
2103FIRAPK	3 Panel Pack - Flat Tiles	<b>3588.54</b>
2103PIRAPK	3 Panel Pack - Pantiles	<b>3588.54</b>

\* Solar Vertical Panels for all pack keywords starting 21

\*\*Solar Vertical Panels for all pack keywords starting 18




#### Kingspan Solar 1 Panel Packs Contents

Packs Contain	Pack Keyword:	1801FIRAPK	1801ORAAPK	1801ORNAPK	180PIRAPK
	Pack Keyword:	2101FIRAPK	2101ORAAPK	2101ORNAPK	2101PIRAPK
KEK0011	SC100 Controller	1	1	1	1
KFP0013	2108 Flat Plate Solar Vert Panel *	1	1	1	1
KFP0014	2108 Single A Frame Brackets	-	1	-	-
KFP0016	2108 Panel Brackets Pitch Roof	-	-	1	-
KFP0017	2108 Single Cassette for Flat Tile	1	-	-	-
KFP0019	2108 Single Cassette for Pantile	-	-	-	1
KFP0023	1808 Flat Plate Solar Vert Panel **	1	1	1	1
KFP0024	1808 Single A Frame Brackets	-	1	-	-
KFP0026	1808 Panel Brackets Pitch Roof	-	-	1	-
KFP0027	1808 Single Cassette for Flat Tile	1	-	-	-
KFP0029	1808 Single Cassette for Pantile	-	-	-	1
KSK0046	Glycol Solution Premixed 10kg	2	2	2	2
KSP0008	18ltr Expansion Vessel Kit	1	1	1	1
KSP0025	Dual Stream Pump Station	1	1	1	1

#### Kingspan Solar 2 Panel Packs Contents

Packs Contain	Pack Keyword:	1802FIRAEWPK	1802FIRAPK	1802ORAAEWPK	1802ORAAPK	1802ORNAEWPK	1802ORNAPK	1802PIRAEWPK	1802PIRAPK
	Pack Keyword:	2102FIRAEWPK	2102FIRAPK		2102ORAAPK	2102ORNAEWPK	2102ORNAPK	2102PIRAEWPK	2102PIRAPK
KEK0011	SC100 Controller	-	1	-	1	-	1	-	1
KEK0012	SC200 Controller E/W	1	-	1	-	1	-	1	-
KEK0037	High Limit Stat E/W	1	-	1	-	1	-	1	-
KFP0013	2108 Flat Plate Solar Vert Panel *	2	2	-	2	2	2	2	2
KFP0015	2108 Double A Frame Brackets	-	-	-	1	-	-	-	-
KFP0016	2108 Panel Brackets Pitch Roof	-	-	-	-	2	2	-	-
KFP0017	2108 Single Cassette for Flat Tile	2	-	-	-	-	-	-	-
KFP0018	2108 Double Cassette for Flat Tile	-	1	-	-	-	-	-	-
KFP0019	2108 Single Cassette for Pantile	-	-	-	-	-	-	2	-
KFP0020	2108 Double Cassette for Pantile	-	-	-	-	-	-	-	1
KFP0023	1808 Flat Plate Solar Vert Panel **	2	2	2	2	2	2	2	2
KFP0024	1808 Single A Frame Brackets	-	-	2	-	-	-	-	-
KFP0025	1808 Double A Frame Brackets	-	-	-	1	-	-	-	-
KFP0026	1808 Panel Brackets Pitch Roof	-	-	-	-	2	2	-	-
KFP0027	1808 Single Cassette for Flat Tile	2	-	-	-	-	-	-	-
KFP0028	1808 Double Cassette for Flat Tile	-	1	-	-	-	-	-	-
KFP0029	1808 Single Cassette for Pantile	-	-	-	-	-	-	2	-
KFP0030	1808 Double Cassette for Pantile	-	-	-	-	-	-	-	1
KSK0046	Glycol Solution Premixed 10kg	2	2	2	2	2	2	2	2
KSK0089	E/W Connection Kit & Panel Kit	1	-	1	-	1	-	1	-
KSP0008	18ltr Expansion Vessel Kit	1	1	1	1	1	1	1	1
KSP0025	Dual Stream Pump Station	-	1	-	1	-	1	-	1
KSP0061	E/W Pump Station	1	-	1	-	1	-	1	-

KEYWORD	DESCRIPTION	PRICE £
		
<b>Accessories</b>		<b>DG9082</b>
KSK0031	2nd Fix Kit 1808, 2108 & T/Max	<b>378.50</b>
KSK0032	1st Fix Kit 1808 & 2108 Flat Plate	<b>140.33</b>
KSK0046	Glycol Solution Premixed 10kg	<b>37.49</b>
KSK0047	Press Tool Kit	<b>605.03</b>
KSK0050	Filling Station	<b>1085.04</b>
KSP0085	DN16 Insulated Corrugated Hose 10m	<b>157.07</b>
KSP0086	DN16 Insulated Corrugated Hose 15m	<b>235.62</b>
KSP0087	DN16 Insulated Corrugated Hose 20m	<b>314.15</b>
KSK0089	East/West Pump Connection & Panel Kit	<b>39.32</b>
KSP0065	Solar Combi Diverter Valve	<b>339.13</b>

### Kingspan Solar 3 Panel Packs Contents

Packs Contain	Pack Keyword:	1803FIRAPK	1803ORNAPK	1803PIRAPK
	Pack Keyword:	2103FIRAPK	2103ORNAPK	2103PIRAPK
KEK0011	SC100 Controller	1	1	1
KFP0013	2108 Flat Plate Solar Vert Panel *	3	3	3
KFP0016	2108 Panel Brackets Pitch Roof	-	3	-
KFP0023	1808 Flat Plate Solar Vert Panel **	3	3	3
KFP0026	1808 Panel Brackets Pitch Roof	-	3	-
KFP0035	2108 Triple Cassette for Flat Tile	1	-	-
KFP0036	2108 Triple Cassette for Pantile	-	-	1
KFP0037	1808 Triple Cassette for Flat Tile	1	-	-
KFP0038	1808 Triple Cassette for Pantile	-	-	1
KSK0046	Glycol Solution Premixed 10kg	2	2	2
KSP0008	18ltr Expansion Vessel Kit	1	1	1
KSP0025	Dual Stream Pump Station	1	1	1

\* Solar Vertical Panels for all pack keywords starting 21  
 \*\* Solar Vertical Panels for all pack keywords starting 18

KEYWORD	DESCRIPTION	PRICE £
<b>Thermomax Vacuum Tube Panels Pack</b>		<b>DG9081</b>
TMAXDF2SQMPK	Direct Flow 2sqm Pack	<b>2083.79</b>
TMAXDF3SQMPK	Direct Flow 3sqm Pack	<b>2634.12</b>
TMAXDF4SQMPK	Direct Flow 4sqm Pack	<b>3532.14</b>
TMAXDF6SQMPK	Direct Flow 6sqm Pack	<b>4697.88</b>
TMAXHP2SQMPK	Heat Pipe 2sqm Pack	<b>2322.42</b>
TMAXHP3SQMPK	Heat Pipe 3sqm Pack	<b>2984.40</b>
TMAXHP4SQMPK	Heat Pipe 4sqm Pack	<b>4022.67</b>
TMAXHP6SQMPK	Heat Pipe 6sqm Pack	<b>5346.63</b>
TMAXHP9SQMPK	Heat Pipe 9sqm Pack	<b>7714.79</b>
<b>Accessories</b>		<b>DG9082</b>
KSK0030	1st Fix Kit Thermomax	<b>148.20</b>
KSK0031	2nd Fix Kit 1808, 2108 & T/Max	<b>378.50</b>
KC0560	Tyfocon Antifreeze 20ltr	<b>115.67</b>
KSK0047	Press Tool Kit	<b>605.03</b>
KSK0048	Spare Washers (Pack of 100)	<b>18.25</b>
KSK0050	Filling Station	<b>1085.04</b>
KSP0085	DN16 Insulated Corrugated Hose 10m	<b>157.07</b>
KSP0086	DN16 Insulated Corrugated Hose 15m	<b>235.62</b>
KSP0087	DN16 Insulated Corrugated Hose 20m	<b>314.15</b>



### Thermomax Vacuum Tube Panels Packs

Packs Contain	TMAXDF2SQMPK	TMAXDF3SQMPK	TMAXDF4SQMPK	TMAXDF6SQMPK	TMAXHP2SQMPK	TMAXHP3SQMPK	TMAXHP4SQMPK	TMAXHP6SQMPK	TMAXHP9SQMPK
KC0560 Tyfocon Antifreeze 20ltr	1	1	2	2	1	1	2	2	3
KC0586 Tmax DF100-2sqm Manifold	1	-	2	-	-	-	-	-	-
KC0587 Tmax DF100-3sqm Manifold	-	1	-	2	-	-	-	-	-
KST0005 Tmax DF100 Tubes 10	2	3	4	6	-	-	-	-	-
KC0590 Tmax Sloping Roof Kit Vert	1	1	2	2	1	1	2	2	3
KC0627 Tmax HP200-2sqm Manifold	-	-	-	-	1	-	2	-	-
KC0628 Tmax HP200-3sqm Manifold	-	-	-	-	-	1	-	2	3
KC0674 Tmax Interconnecting Kit	-	-	1	1	-	-	1	1	2
KST0003 Tmax HP200 Tubes 95° x 10	-	-	-	-	2	3	4	6	9
KEK0011 SC100 Controller	1	1	1	1	1	1	1	1	1
KSP0008 18ltr Expansion Vessel Kit	-	-	-	-	1	1	1	1	1
KSP0010 35ltr Expansion Vessel Kit	-	-	-	1	-	-	-	-	-
KSP0022 DF Vessel Kit 18ltr Expn & 5ltr TRV	1	1*	1*	-	-	-	-	-	-
KSP0025 Dual Stream Pump Station	1	1	1	1	1	1	1	1	1
KSP0041 18ltr Temp Reducing Vessel	-	-	-	1	-	-	-	-	-

1\* = KSP0028 DF Vessel Kit 25ltr + 8ltr TRV



## Solar Thermal

### Solar Packs

DG9051

Does not include twin coil cylinder which should be selected from page 193. Please refer to manufacturers technical guide to ensure correct sizing of the cylinder.

#### Portrait Panel Solar Kits for F1145 & VPBS

N69056 2 Panel Kit - Contains: **1725.81**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, Solar 42,  
 Expansion Vessel 18ltr, FP215P - Portrait Panel x 2  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps)

N69057 3 Panel Kit - Contains: **2228.11**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, Solar 42  
 Expansion Vessel 18ltr, FP215P - Portrait Panel x 3  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps)

#### Landscape Panel Solar Kits for F1145 & VPBS

N69058 2 Panel Kit - Contains: **1822.58**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, Solar 42,  
 Expansion Vessel 18ltr, FP215PL - Landscape Panel x 2  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps)

N69059 3 Panel Kit - Contains: **2377.88**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, Solar 42  
 Expansion Vessel 18ltr, FP215PL - Landscape Panel x 3  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps) x 2

#### Portrait Panel Solar Kits for F1145 & VPAS

N69061 3 Panel Kit - Contains: **2228.11**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, Solar 40,  
 Expansion Vessel 18ltr, FP215P - Portrait Panel x 3  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps) x 2

N69062 4 Panel Kit - Contains: **2764.98**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, Solar 40,  
 Expansion Vessel 24ltr, FP215P - Portrait Panel x 4  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps) x 3

N69064 5 Panel Kit - Contains: **3308.76**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre x 2, Solar 40,  
 Expansion Vessel 24ltr, FP215P - Portrait Panel x 5  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps) x 4

#### Landscape Panel Solar Kits for F1145 & VPAS

N69065 3 Panel Kit - Contains: **2377.88**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, Solar 40,  
 Expansion Vessel 18ltr, FP215PL - Landscape Panel x 3  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps) x 2

N69066 4 Panel Kit - Contains: **2963.13**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25ltr & 10ltr, Solar 40,  
 Expansion Vessel 24ltr, FP215PL - Landscape Panel x 4  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps) x 3

N69067 5 Panel Kit - Contains: **3555.30**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25ltr x 5, Solar 40,  
 Expansion Vessel 24ltr, FP215PL - Landscape Panel x 5  
 SVP-FD 3/4" (2 Plugs, 2 Connect Fittings 3/4",  
 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps) x 4

#### Portrait Panel Solar Kits for F370/F470

N69068 2 Panel Kit - Contains: **2663.59**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, MCU 10, Solar 41,  
 UKVS 230, Expansion Vessel 18ltr, FP215P - Portrait  
 Panel x 2, SVP-FD 3/4" (2 Plugs, 2 Connect Fittings  
 3/4", 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps)

N69069 3 Panel Kit - Contains: **3165.90**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, MCU 10, Solar 41,  
 UKVS 230, Expansion Vessel 18ltr, FP215P - Portrait  
 Panel x 3, SVP-FD 3/4" (2 Plugs, 2 Connect Fittings  
 3/4", 4 Safety Clamps), SVP-WR (2 Compensators &  
 2 Safety Clamps) x 2

#### Landscape Panel Solar Kits for F370/F470

N69070 2 Panel Kit - Contains: **2760.37**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, MCU 10, Solar 41,  
 UKVS 230, Expansion Vessel 18ltr, FP215PL -  
 Landscape Panel x 2, SVP-FD 3/4" (2 Plugs,  
 2 Connect Fittings 3/4", 4 Safety Clamps),  
 SVP-WR (2 Compensators & 2 Safety Clamps)

N69071 3 Panel Kit - Contains: **3313.36**  
 SPS 10 Solar Pumping Station 3/4" Male Thread  
 SCS 10 Connector Set for Expansion Vessel  
 Solar Glycol - Premixed 25 Litre, MCU 10, Solar 41,  
 UKVS 230, Expansion Vessel 18ltr, FP215PL -  
 Landscape Panel x 3, SVP-FD 3/4" (2 Plugs,  
 2 Connect Fittings 3/4", 4 Safety Clamps),  
 SVP-WR (2 Compensators & 2 Safety Clamps) x 2

### Solar Accessories

DG9051

N57001 FP215P Portrait Solar Panel **473.00**  
 N57002 FP215PL Landscape Solar Panel **519.14**

### Mounting Rails Sets

N57003 SMP-SHS1 (For 1 Collector) **37.17**  
 N57004 SMP-SHS2 (For 2 Collectors) **65.09**  
 N57005 SMP-SHS3 (For 3 Collectors) **105.26**  
 N57019 SMP-V Mounting Rail Connection Kit **28.56**

### Pan Tile & Concrete Kits

N57006 SMP-DS1 (1 Collector - 4 Hooks,  
 2 Collectors Hooks, Fixing Material) **99.12**  
 N57007 SMP-DS2 (2 Collectors - 4 Hooks,  
 2 Collector Hooks, Fixing Material) **112.78**  
 N57008 SMP-DS3 (3 Collectors - 6 Hooks,  
 6 Collector Hooks, Fixing Material) **162.32**  
 N57009 SMP-DS ERW (Ext Set for 1 Collector,  
 2 Hooks, 2 Collector Hooks,  
 Fixing Material) **51.71**

### Slate Roof Kits

N57010 SMP-S1 (1 Collector - 4 Coach Bolts,  
 2 Collector Hanging Hooks,  
 Fixing Material) **62.30**  
 N57011 SMP-S2 (2 Collectors - 4 Coach Bolts,  
 2 Collector Hanging Hooks,  
 Fixing Material) **69.63**  
 N57012 SMP-S3 (3 Collectors - 6 Coach Bolts,  
 2 Collector Hanging Hooks,  
 Fixing Material) **106.27**  
 N57013 SMP-S ERW (Ext Set for 1 Collector,  
 2 Coach Bolts, 2 Collector Hanging  
 Hooks, Fixing Material) **36.66**  
 N57021 SMP-ZB S (2 Coach Bolts/Hanging Bolts) **23.37**

### Flat Roof Kits

N57070 Sealing Plate for Bitumen Roofs **29.99**  
 N57071 Rubber Sealing (for Sealing Plates  
 2 x F/Holder) **1.15**  
 N57072 Screw Kit 1 for Sealing Plate  
 (5 Elev Seal Plates, 10pc 10 x 20) **6.92**  
 N57016 SMP-A1 Adjustable A Frame  
 42° - 65° for Portrait only **110.22**  
 N57017 SMP-AQ 45 Fixed A Frame 45°  
 for Landscape only **90.31**

### In Roof Kits

N57040 SMP-ID Basic Set for 2 Collectors **553.75**  
 N57041 SMP-ID 1 (Extension Kit for each  
 additional collector) **276.88**

### Flexible Solar Pipes (inc Fittings)

N57030 2 x 16mm x 10mtr **209.96**  
 N57031 2 x 16mm x 15mtr **313.79**  
 N57032 2 x 16mm x 20mtr **417.62**  
 N57033 2 x 16mm x 25mtr **519.14**  
 N57081X3 2 x 20mm x 10mtr **263.03**  
 N57034 2 x 20mm x 15mtr **394.55**  
 N57035 2 x 20mm x 20mtr **552.30**  
 N57084 2 x 20mm x 25mtr **693.00**  
 N57091 Spare Fitting Sets for 16mm  
 Solar Pipes (4 Pipe Ends) **7.22**  
 N57092 Spare Fitting Sets for 20mm  
 Solar Pipes (4 Pipe Ends) **10.54**



NIBE Solar FP215P

KEYWORD DESCRIPTION PRICE £



Vaillant  
VFK 150  
Horizontal

Vaillant  
VFK 150  
Vertical

## Solar Thermal

Full set includes everything you need for the installation apart from twin coil cylinder which can be selected from page 193. Please refer to manufacturers technical guide to ensure correct sizing of the cylinder.

### Flat Plate Collectors auroTHERM 145 Flat Plate Collectors

DG9020

#### 145 On-Roof Kits

VA20096418	145 Vertical Concrete x 1	1583.00
VA20078652	145 Vertical Concrete x 2	2245.00
VA20078653	145 Vertical Concrete x 3	2900.00
VA20096419	145 Horizontal Concrete x 1	1583.00
VA20078654	145 Horizontal Concrete x 2	2245.00
VA20078655	145 Horizontal Concrete x 3	2900.00
VA20096416	145 Vertical Slate/Plain Tile x 1	1583.00
VA20078642	145 Vertical Slate/Plain Tile x 2	2245.00
VA20078643	145 Vertical Slate/Plain Tile x 3	2900.00
VA20096417	145 Horizontal Slate/Plain Tile x 1	1583.00
VA20078644	145 Horizontal Slate/Plain Tile x 2	2245.00
VA20078645	145 Horizontal Slate/Plain Tile x 3	2900.00

#### 145 In-Roof Kits

VA20096420	145 Vertical x 1	1866.00
VA20078662	145 Vertical x 2	2400.00
VA20078663	145 Vertical x 3	3075.00
VA20096421	145 Horizontal x 1	2021.00
VA20078664	145 Horizontal x 2	2863.00
VA20078665	145 Horizontal x 3	3724.00

#### 145 A-Frame Kits

VA20096422	145 Vertical x 1	1763.00
VA20078676	145 Vertical x 2	2482.00
VA20078677	145 Vertical x 3	3193.00
VA20096423	145 Horizontal x 1	1763.00
VA20078678	145 Horizontal x 2	2482.00
VA20078679	145 Horizontal x 3	3193.00

### auroTHERM Plus 150 Flat Plate Collectors

DG9020

#### 150 On-Roof Kits

VA20078656	150 Vertical Concrete x 1	1722.00
VA20078657	150 Vertical Concrete x 2	2525.00
VA20078658	150 Vertical Concrete x 3	3320.00
VA20078659	150 Horizontal Concrete x 1	1722.00
VA20078660	150 Horizontal Concrete x 2	2525.00
VA20078661	150 Horizontal Concrete x 3	3320.00
VA20078646	150 Vertical Slate/Plain Tile x 1	1722.00
VA20078647	150 Vertical Slate/Plain Tile x 2	2525.00
VA20078648	150 Vertical Slate/Plain Tile x 3	3320.00
VA20078649	150 Horizontal Slate/Plain Tile x 1	1722.00
VA20078650	150 Horizontal Slate/Plain Tile x 2	2525.00
VA20078651	150 Horizontal Slate/Plain Tile x 3	3320.00

#### 150 In-Roof Kits

VA20078666	150 Vertical x 1	2006.00
VA20078667	150 Vertical x 2	2680.00
VA20078668	150 Vertical x 3	3495.00

KEYWORD DESCRIPTION PRICE £

VA20078669	150 Horizontal x 1	2161.00
VA20078670	150 Horizontal x 2	3143.00
VA20078671	150 Horizontal x 3	4144.00

#### 150 A-Frame Kits - Flat Roof

VA20078680	150 Vertical x 1	1903.00
VA20078681	150 Vertical x 2	2762.00
VA20078682	150 Vertical x 3	3613.00
VA20078683	150 Horizontal x 1	1903.00
VA20078684	150 Horizontal x 2	2762.00
VA20078685	150 Horizontal x 3	3613.00

### Vacuum Tube Solar Thermal Collectors auroTherm Exclusive VTR 570/2

DG9020

#### VTK 570/2 On-Roof Kits

VA20078691	Concrete x 2	2275.00
VA20078692	Concrete x 3	2940.00
VA20078693	Concrete x 4	3626.00
VA20078694	Concrete x 5	4291.00
VA20078695	Concrete x 6	4957.00
VA20078686	Slate/Plain Tile x 2	2275.00
VA20078687	Slate/Plain Tile x 3	2940.00
VA20078688	Slate/Plain Tile x 4	3626.00
VA20078689	Slate/Plain Tile x 5	4291.00
VA20078690	Slate/Plain Tile x 6	4957.00

#### VTK 570/2 A-Frame Kits

VA20078696	A-Frame x 2	2388.00
VA20078697	A-Frame x 3	2951.00
VA20078698	A-Frame x 4	3853.00
VA20078699	A-Frame x 5	4626.00
VA20078700	A-Frame x 6	5327.00

### auroTHERM Low Pitch In-Roof Sets

DG9020

#### auroTHERM Low Pitch Sets 15°- 22°

VA20078672	145V In-Roof 15°- 22° x 2	2950.00
VA20078673	145V In-Roof 15°- 22° x 3	3698.00

#### auroTHERMPLUS Low Pitch Sets 15°- 22°

VA20078674	150V In-Roof 15°- 22° x 2	3230.00
VA20078675	150V In-Roof 15°- 22° x 3	4118.00

## Accessories

### Accessories for A-Frame Kits

DG9021

VA20059904	Gravel Trays x 2	93.00
VA20059905	Gravel Trays x 3	124.00

Vertical installations require 8 trays per collector  
Horizontal installations require 6 trays per collector

### Accessories - order separately as required

DG9021

VA20045576	Filling Pump On Trolley	430.00
VA20042549	Refractometer	130.00

All sets include collectors including black anodised stainless steel brackets relevant to the set

All stainless steel flexible insulated tubes required for the installation

Solar pump unit

Solar control auroMATIC 560/2

Space saving expansion vessel

Thermostatic mixing valve for hot water cylinder

Automatic air separator

All solar fluid needed for the installation

Sensor wire

All DN16 fittings



Vaillant AuroTherm Solar

KEYWORD DESCRIPTION PRICE £



climate of innovation

## Solar Thermal

Full set includes everything you need for the installation apart from twin coil cylinder which can be selected from page 193. Please refer to manufacturers technical guide to ensure correct sizing of the cylinder.

### Heat Tower (Tower solar kits to be added)

DG9014

VMFB2B026	242-F Heating Tower 19kW	5541.00
VMFB2B027	242-F Heating Tower 26kW	5729.00
VM7347985	Standard RH & LH Side Connection Set	250.00

### Vitodens 242-F Heat Tower Solar Kits

DG9015

VMSK03134	On SV1A 1 Panel Kit	1302.00
VMSK03135	On SV1A 2 Panel Kit	1937.00
VMSK03136	On SH1A 1 Panel Kit	1332.00
VMSK03137	On SH1A 2 Panel Kit	2018.00
VMSK03138	On SV2A 1 Panel Kit	1580.00
VMSK03140	On SV2A 2 Panel Kit	1908.00
VMSK03139	In SV2A 1 Panel Kit	2269.00
VMSK03141	In SV2A 2 Panel Kit	2719.00
VMSK02935	On SP2 2 Mtrs	2335.00
VMSK02936	On SP2 3 Mtrs	2942.00
VMSK01748	On SP3A 2 Mtrs	2532.00
VMSK01749	On SP3A 3 Mtrs	3292.00



Viessmann Heat Tower

### Heat Tower Solar Kit Comprises:

- Solar Collector(s)
- Roof Brackets & Fixing Kit
- Connection Sets
- Flexi Flow & Return Pipes 12m (Stainless Steel)
- Inter-connecting Pipes
- Tyfocor LS Heating Medium 50 Litres
- Expansion Vessel 45 Litres
- Sensor Pocket & Component Set

KEYWORD DESCRIPTION PRICE £



Solar Kits		DG9014
VMSK03258	Vitosol 100-F SV1A (1 Panel)	1428.00
VMSK03259	Vitosol 100-F SV1A (2 Panel)	2102.00
VMSK03260	Vitosol 100-F SH1A (1 Panel) Horizontal	1514.00
VMSK03261	Vitosol 100-F SH1A (2 Panel) Horizontal	2180.00
VMSK03262	Vitosol 200-F SV2A (1 Panel)	1824.00
VMSK03263	Vitosol 200-F SV2A (2 Panel)	2492.00
VMSK03264	Vitosol 200-F SV2A Roof In (1 Panel)	2057.00
VMSK03265	Vitosol 200-F SV2A Roof In (2 Panel)	2826.00
VMSK03266	Vitosol 200-F SH2A Roof In (1 Pnl) Horiz	2223.00
VMSK03267	Vitosol 200-F SH2A Roof In (2 Pnl) Horiz	3125.00
VMSK03268	Vitosol 200-T SP2 2 Mtrs	2467.00
VMSK03269	Vitosol 200-T SP2 3 Mtrs	3054.00
VMSK03270	Vitosol 300-T SP3A 2 Mtrs	2687.00
VMSK03271	Vitosol 300-T SP3A 3 Mtrs	3425.00

### Solar Kit Comprises:

- Solar Collector(s)
- Roof Brackets & Fixing Kit
- Connection Sets
- 1m Through Roof Flexible Pipes (Stainless Steel)
- Inter-connecting Pipes
- Tyfocon LS Heating Medium 50 Litres
- Solar Divicon Including Pump, Auto Air Vent, Air Separator, Fill/Drain Manifold & Vitosolic 100 Controller
- Expansion Vessel 45 Litres
- Sensor Pocket & Component Set

### Accessories

VM7373478	Flexi Flow & Return Pipes 12mtrs	468.00
VM7373477	Flexi Flow & Return Pipes 6mtrs	196.00



Viessmann 300T 20 Tube Panel



Vokera Zenith Solar Package

## Solar Thermal

Does not include twin coil cylinder which should be selected from page 193. Please refer to manufacturers technical guide to ensure correct sizing of the cylinder.

Zenith 2 Collector Kits (2 Collectors)		DG9016
V29450195	Zenith 2 On Tile Collector Kit Pitched Roof - MCS Approved	2439.00
V29450196	Zenith 2 On Tile Collector Kit Flat Roof - MCS Approved	2549.00
V29450191	Zenith 2 Inset Collector Kit Slate Roof - MCS Approved	2899.00
V29450192	Zenith 2 Inset Collector Kit Tile Roof - MCS Approved	2899.00
V29450193	Zenith 2 Evacuated Tube Collector Kit Pitched Roof - MCS Approved	3459.00
V29450194	Zenith 2 Evacuated Tube Collector Kit Flat Roof - MCS Approved	3658.50

### Included in the pack:

- 2 x MCS Approved Collectors
- Roof Kit
- Premium Three Temperature Controller
- Pump Station
- Expansion Vessel
- Air Vent
- Glycol

### Solar Thermal Accessories

V568	Flat Plate Collector	715.00
V20026323	Evacuated Tube Collector	1245.00
V20008315	Support Rail On Tile Collector	134.50
V20008322	Support Rail 2 On Tile Collectors	139.00
V20008292	Pitched Roof Fixing (Tile & Evac)	35.50
V20008317	Flat Roof Fixing Kit (On Tile)	90.50
V200026384	Flat Roof Fixing Kit (Evac Only)	102.00
V200022309	Inset Kit Slate Roof 1 Collector	498.50
V20022310	Inset Kit Slate Roof 2 Collectors	670.00
V20010353	Inset Kit Tile Roof 1 Collector	498.50
V20010393	Inset Kit Tile Roof 2 Collectors	670.00
V20026145	4.5m Head Pump Station	310.50
V1150439	Standard Controller (Two Temp)	164.50
V20009244	Premium Controller (Three Temp)	188.00
V20026577	Manual Air Vent for Collectors	85.00
V1150489	18ltr Expansion Vessel with Support	67.00
V1150549	Glycol 5ltrs	51.50
V1150559	Glycol 10ltrs	85.00
V1151029	Premix Glycol 20ltrs Evac Tubes Only	58.00
V29450101	Insulated Flexible Pipe DN15	383.00
V29450103	DN15F x F22mm Panel & Air Vent Connection	10.50
V29450108	DN15F x 1mtr Pump Station Connection	10.00
V29450104	DN15F x 3/4" Cylinder Connection	7.50
V1150539	DN15 3/4" M&F Inset On Tile Connection	5.00
V1151019	DN15 1" M&F Evac Tube Connection	24.00

Oil boilers    Solar thermal and PV    Gas boilers    Biomass boilers    Heat pumps

## Large range, small footprint...

With a hierarchy of products in all fuel sectors, offering outputs from 15 kW to 20 MW, Viessmann really is your natural partner for finding an unbiased solution to your heating and climate technology needs.

**Efficiency Plus**  
Viessmann's "Efficiency Plus" project at our main factory in Germany proves that the political goals set for 2020 regarding climate change and energy efficiency can be achieved today with Viessmann Group products. Energy efficiency has been improved by 22 per cent, the proportion of energy from renewables has extended to 18 per cent and CO<sub>2</sub> emissions have been cut by a third.

KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
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Worcester Solar Package



Worcester Solar Cylinder



Worcester Solar Lux (excludes cylinder)

## Solar Thermal

Pack does not include twin coil cylinder which should be selected below. Each line should be ordered separately with the quantity required.

Solar Thermal Kits		DG9010
FKC1S2PKIT0R	FKC-1S Solar 2 Panel Kit On-Roof	<b>2978.70</b>
FKC1S2PKITIR	FKC-1S Solar 2 Panel Kit In-Roof	<b>3378.67</b>
FKC1W2PKIT0R	FKC-1W Solar 2 Panel Kit On-Roof	<b>2973.44</b>
FKC1W2PKITIR	FKC-1W Solar 2 Panel Kit In-Roof	<b>3311.66</b>
FKT1S2PKIT0R	FKT-1S Solar 2 Panel Kit On-Roof	<b>3659.35</b>
FKT1S2PKITIR	FKT-1S Solar 2 Panel Kit In-Roof	<b>4057.56</b>
FKT1W2PKIT0R	FKT-1W Solar 2 Panel Kit On-Roof	<b>3652.33</b>
FKT1W2PKITIR	FKT-1W Solar 2 Panel Kit In-Roof	<b>4057.56</b>
Optional Fixings (Replace Standard Fixings)		DG9011
W7739300280	Additional Roof Hook Kit FZB3Z	<b>28.07</b>
W7739300281	Special Roof Hook Kit FZB4	<b>63.19</b>
W7739300282	Special Roof Hook Kit FZB4Z	<b>52.64</b>
W7739300283	Bolt Fixing Kit FZB5	<b>51.42</b>
W7739300284	Clip Connector Kit FKU10 (16 qty)	<b>33.40</b>
W7739300287	Air Vent Connector Kit ELT4Z	<b>3.87</b>
W7739300295	Panel Stand Bracer FKZ1	<b>63.15</b>
W7739300296	Panel Additional Stand Bracer FKZ1	<b>63.15</b>
W7739300454	Panel Flat Roof Stand FKf3	<b>305.24</b>
W7739300455	Panel Flat Roof Stand 2nd Panel FKf4	<b>305.24</b>
W7739300440	Roof Bar Kit FKA5	<b>107.00</b>
W7739300441	Roof Bar Kit 2nd Panel FKA6	<b>115.79</b>
W7739300436	Roof Hook FKA3	<b>70.18</b>
Optional Accessories		
W7739300058	Fluid WTF10	<b>49.11</b>
W7739300120	Expansion Vessel SAG35 (for 6-8 panel system)	<b>99.98</b>
W7739300397	Solar Service Kit	<b>521.01</b>
W7739300399	Solar Panel Cover	<b>168.42</b>
W7739300398	Solar System Filling Pump	<b>1884.05</b>
W7739300365	Solar Filling Pump Filter	<b>78.94</b>
W7747009880	TF2 Temperature Sensor NTC 20K	<b>43.86</b>
Solar Controller		
W7739300378	TDS10 Solar Controller	<b>250.86</b>
W7747004420	TDS100 Solar Controller	<b>250.86</b>
W7747004427	TDS300 Solar Controller	<b>477.15</b>
W7747009456	AGS5E Solar Pump Station	<b>370.14</b>
W7747009427	AGS10E Solar Pump Station	<b>394.70</b>
W7747009442	AGS5 Solar Pump Station	<b>456.10</b>
W7747009420	AGS10 Solar Pump Station	<b>487.68</b>
W7747008776	AGS5/TDS100 Solar Pump Station & Controller	<b>706.96</b>
Boiler Integration		
W7716192068	ISM1 Intelligent Solar Module	<b>247.35</b>
W7716192066	FR110 Programmable Room Stat	<b>250.85</b>
W7716192067	FW100 Weather Compensation Controller	<b>266.64</b>

## Solar Cylinders

KEYWORD	DESCRIPTION	DG9010
W7716800542	Greenstore TC-150	<b>1336.00</b>
W7716800543	Greenstore TC-180	<b>1416.00</b>
W7716800544	Greenstore TC-210	<b>1450.00</b>
W7716800545	Greenstore TC-250	<b>1550.00</b>
W7716800546	Greenstore TC-300	<b>1676.00</b>

## Typical Greenskies Pack with Portrait Panels

Comprises:

KEYWORD	DESCRIPTION	QTY	PRICE £
WFKC1S2	FKC-1S Greenskies Single Solar Portrait Panel	x 2	<b>796.43</b>
W7747002438	Collector Connector FS55	x 1	<b>77.17</b>
W7739300432	Air Vent ELT5	x 1	<b>66.69</b>
W7739300378	Solar Controller TDS10	x 1	<b>250.86</b>
W7739300377	Pump Station AGS2	x 1	<b>350.85</b>
W7739300119	Expansion Vessel 25ltr SAG25	x 1	<b>70.18</b>
W7739300331	Expansion Vessel Connector AAS1	x 1	<b>94.75</b>
W7739300057	Solar Fluid WTF 25ltr	x 1	<b>112.27</b>
<b>Sub Total</b>			<b>2615.63</b>
W7739300436	FKA3 Solar Roof Hook Kit	x 2	<b>70.18</b>
W7739300440	Roof Bar Kit Portrait Panel FKA5	x 1	<b>107.00</b>
W7739300441	Roof Bar Kit 2nd Portrait Panel FKA6	x 1	<b>115.79</b>
<b>Sub Total</b>			<b>363.15</b>
<b>Total Pack List Price</b>			<b>2978.78</b>

## Typical Greenskies Pack with Landscape Panels

Comprises:

KEYWORD	DESCRIPTION	QTY	PRICE £
WFKC1W2	FKC-1W Greenskies Single Solar Landscape Panel	x 2	<b>796.43</b>
W7747002438	Collector Connector FS55	x 1	<b>77.17</b>
W7739300432	Air Vent ELT5	x 1	<b>66.69</b>
W7739300378	Solar Controller TDS10	x 1	<b>250.86</b>
W7739300377	Pump Station AGS2	x 1	<b>350.85</b>
W7739300119	Expansion Vessel 25ltr SAG25	x 1	<b>70.18</b>
W7739300331	Expansion Vessel Connector AAS1	x 1	<b>94.75</b>
W7739300057	Solar Fluid WTF 25ltr	x 1	<b>112.27</b>
<b>Sub Total</b>			<b>2615.63</b>
W7739300436	FKA3 Solar Roof Hook Kit	x 2	<b>70.18</b>
W7739300442	Roof Bar Kit Landscape Panel FKA7	x 1	<b>101.75</b>
W7739300443	Roof Bar Kit 2nd Landscape Panel FKA8	x 1	<b>114.06</b>
<b>Sub Total</b>			<b>356.17</b>
<b>Total Pack List Price</b>			<b>2971.80</b>

Rely upon a compatible Greenstar boiler and integral diverter  
Please see page 162

## Solar-Lux Evacuated Tubes

W77161150163	Solar Lux Plumb Kit Comprises: AGS5 Pump, TDS 100 Controller 25ltr Expansion Vessel, 5ltr Pre-Cooling Vessel Connector & 20ltr LS Heat Transfer Fluid	<b>1031.57</b>
W77161150159	Lux 300 Easy Lift - 3 x SL6 Roof Kit Comprises: 3 x SL6 Collector, On-Roof Set 3 VT6, On-Roof Connection Set, Roof Connection Tile - 6pcs VT, Collector Sensor, 2 x Connection Cover	<b>3917.50</b>
W77161150160	Lux 200 - 1 x SL12 Roof Kit Comprises: 1 x SL12 Collector, On-Roof Set 3 VT6/12, On-Roof Connection Set, Roof Connection Tile - 4pcs VT, Collector Sensor,	<b>2396.47</b>
W77161150161	Lux 200 Easy Lift - 2 x SL6 Roof Kit Comprises: 2 x SL6 Collector, On-Roof Set 2 VT6, On-Roof Connection Set, Roof Connection Tile - 4pcs VT, Collector Sensor, Connection Cover	<b>2675.41</b>
W77161150162	Lux 150 - 1 x SL6 Roof Kit Comprises: 1 x SL6 Collector, On-Roof Set 3 VT6/12, On-Roof Connection Set, Roof Connection Tile - 4pcs VT, Collector Sensor, Connection Cover	<b>1445.60</b>

KEYWORD DESCRIPTION PRICE £

## HEATRAE SADIA



Electromax Solar with Integrated Solar Hydraulic Pump Station and Controller

### Electromax Solar

DG9095

Heatrae Sadia Electromax Solar is a fully integrated 9kW electric boiler, 185, 220 or 250 litre cylinder with solar coil and solar hydraulic pump and controller. To complete the solar thermal installation a choice of in-roof and on-roof flat plate solar collectors are available with primary solar fluid, a 24ltr expansion vessel and connecting pipe kit. The Electromax Solar is suitable for a range of properties and especially suited to areas without a mains gas supply.

#### Electromax Solar

HSES95022212	Electromax Solar 185 Rad	<b>3289.85</b>
HSES95022214	Electromax Solar 220 Rad	<b>3365.42</b>
HSES95022215	Electromax Solar 250 Rad	<b>3178.37</b>
HSES95022216	Electromax Solar 185 Rad EW	<b>3400.39</b>
HSES95022217	Electromax Solar 220 Rad EW	<b>3475.87</b>
HSES95022218	Electromax Solar 250 Rad EW	<b>3528.04</b>
HSES95022312	Electromax Solar 185 Ufloor	<b>3289.85</b>
HSES95022314	Electromax Solar 220 Ufloor	<b>3365.42</b>
HSES95022315	Electromax Solar 250 Ufloor	<b>3416.75</b>
HSES95022316	Electromax Solar 185 Ufloor EW	<b>3400.39</b>
HSES95022317	Electromax Solar 220 Ufloor EW	<b>3475.87</b>
HSES95022318	Electromax Solar 250 Ufloor EW	<b>3528.04</b>

#### Electromax Solar Collector Kits

DG9060

HSES95970517	1 Panel On Roof Solar Slate & Tile	<b>1402.32</b>
HSES95970518	2 Panel On Roof Solar Slate & Tile	<b>1692.01</b>
HSES95970519	2 Panel On Roof Solar Slate & Tile EW	<b>2233.42</b>
HSES95970520	3 Panel On Roof Solar Slate & Tile EW	<b>2716.37</b>
HSES95970521	1 Panel On Roof Solar A Frame	<b>1491.72</b>
HSES95970522	2 Panel On Roof Solar A Frame	<b>1789.76</b>
HSES95970523	1 Panel In Roof Slate	<b>1670.54</b>
HSES95970524	2 Panel In Roof Slate	<b>2248.75</b>
HSES95970525	1 Panel In Roof Tile	<b>1670.54</b>
HSES95970526	2 Panel In Roof Tile	<b>2248.75</b>
HSES95970527	2 Panel In Roof Slate EW	<b>2693.53</b>
HSES95970528	3 Panel In Roof Slate EW	<b>3442.10</b>
HSES95970529	2 Panel In Roof Tile EW	<b>2747.38</b>
HSES95970530	3 Panel In Roof Tile EW	<b>3495.76</b>

Coming soon!  
Baxi Solargen  
Solar PV

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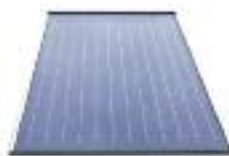
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## Solar Photovoltaic (PV)

The sun's energy can also be used to generate electricity. An effective solar PV system can considerably lower a home owner's fuel usage by providing at least 10% of the home's energy by a renewable source which also satisfies Building Regulations. As with solar thermal, solar PV can reduce your carbon footprint considerably.

From April 2010, Feed in Tariffs (FIT's) have been introduced by the Government. FITs are applicable for renewable electricity generation

technologies such as Solar PV and Micro-combined Heat & Power (Micro CHP). These tariff rates can last around 25 years. For an example on how much income you can generate please see [www.energysavingstrust.org.uk/generate-your-own-energy/cashbackcalculator](http://www.energysavingstrust.org.uk/generate-your-own-energy/cashbackcalculator)

### Benefits:

- PV modules work in daylight so a solar PV will generate electricity all year round
- Installation is quick and easy to integrate with domestic households

- Minimal maintenance
- Mounting Kits are available for various types of roof configuration
- Reliable technology with a performance guarantee up to 25 years
- Quality Brands

For more information on the PTS renewables product range and what PTS can do for you in this important growing market, please see our website [www.ptsrenewables.co.uk](http://www.ptsrenewables.co.uk)



**Free, zero carbon electricity from the sun**

- Complete solar PV packages for easy installation
- High performance MCS certificated modules
- Eligible for Feed-in Tariff
- Significantly reduces energy costs and building CO<sub>2</sub> emissions
- Easy to retrofit
- Installer training courses available



[www.dimplex.co.uk/trust](http://www.dimplex.co.uk/trust)

**Dimplex renewables**  
A world of expertise

KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
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## On Roof Solar PV Systems

DG9062

### Poly Modules - Portrait application with SMA Inverter

D14423PPT	1.44kW 6 x 240W Plain Tile	<b>2962.49</b>
D14423PST	1.44kW 6 x 240W Slate Tile	<b>2962.49</b>
D14423PRT	1.44kW 6 x 240W Short Tile	<b>2962.49</b>
D19224PPT	1.92kW 8 x 240W Plain Tile	<b>3768.84</b>
D19224PST	1.92kW 8 x 240W Slate Tile	<b>3768.84</b>
D19224PRT	1.92kW 8 x 240W Short Tile	<b>3768.84</b>
D21633PPT	2.16kW 9 x 240W Plain Tile	<b>4407.12</b>
D21633PST	2.16kW 9 x 240W Slate Tile	<b>4407.12</b>
D21633PRT	2.16kW 9 x 240W Short Tile	<b>4407.12</b>
D24025PPT	2.40kW 10 x 240W Plain Tile	<b>4759.90</b>
D24025PST	2.40kW 10 x 240W Slate Tile	<b>4759.90</b>
D24025PRT	2.40kW 10 x 240W Short Tile	<b>4759.90</b>
D28826PPT	2.88kW 12 x 240W Plain Tile	<b>5492.13</b>
D28826PST	2.88kW 12 x 240W Slate Tile	<b>5492.13</b>
D28826PRT	2.88kW 12 x 240W Short Tile	<b>5492.13</b>
D38428PPT	3.84kW 16 x 240W Plain Tile	<b>6831.01</b>
D38428PST	3.84kW 16 x 240W Slate Tile	<b>6831.01</b>
D38428PRT	3.84kW 16 x 240W Short Tile	<b>6831.01</b>

### Poly Modules - Portrait application with Power One Inverter

D19224PPTP	1.92kW 8 x 240W Plain Tile	<b>3734.65</b>
D19224PSTP	1.92kW 8 x 240W Slate Tile	<b>3734.65</b>
D19224PRTPT	1.92kW 8 x 240W Short Tile	<b>3734.65</b>
D21633PPTP	2.16kW 9 x 240W Plain Tile	<b>4027.12</b>
D21633PSTP	2.16kW 9 x 240W Slate Tile	<b>4027.12</b>
D21633PRTPT	2.16kW 9 x 240W Short Tile	<b>4027.12</b>
D28826PPTP	2.88kW 12 x 240W Plain Tile	<b>5177.09</b>
D28826PSTP	2.88kW 12 x 240W Slate Tile	<b>5177.09</b>
D28826PRTPT	2.88kW 12 x 240W Short Tile	<b>5177.09</b>
D38428PPTP	3.84kW 16 x 240W Plain Tile	<b>6542.75</b>
D38428PSTP	3.84kW 16 x 240W Slate Tile	<b>6542.75</b>
D38428PRTPT	3.84kW 16 x 240W Short Tile	<b>6542.75</b>

### Poly Modules - Landscape application with SMA Inverter

D14423LPT	1.44kW 6 x 240W Plain Tile	<b>3368.31</b>
D14423LST	1.44kW 6 x 240W Slate Tile	<b>3368.31</b>
D14423LRT	1.44kW 6 x 240W Short Tile	<b>3368.31</b>
D19224LPT	1.92kW 8 x 240W Plain Tile	<b>4317.19</b>
D19224LST	1.92kW 8 x 240W Slate Tile	<b>4317.19</b>
D19224LRT	1.92kW 8 x 240W Short Tile	<b>4317.19</b>
D21633LPT	2.16kW 9 x 240W Plain Tile	<b>4986.16</b>
D21633LST	2.16kW 9 x 240W Slate Tile	<b>4986.16</b>
D21633LRT	2.16kW 9 x 240W Short Tile	<b>4986.16</b>

D24025LPT	2.40kW 10 x 240W Plain Tile	<b>5394.88</b>
D24025LST	2.40kW 10 x 240W Slate Tile	<b>5394.88</b>
D24025LRT	2.40kW 10 x 240W Short Tile	<b>5394.88</b>
D28826LPT	2.88kW 12 x 240W Plain Tile	<b>6254.68</b>
D28826LST	2.88kW 12 x 240W Slate Tile	<b>6254.68</b>
D28826LRT	2.88kW 12 x 240W Short Tile	<b>6254.68</b>
D38428LPT	3.84kW 16 x 240W Plain Tile	<b>7821.66</b>
D38428LST	3.84kW 16 x 240W Slate Tile	<b>7821.66</b>
D38428LRT	3.84kW 16 x 240W Short Tile	<b>7821.66</b>

### Poly Modules - Landscape application with Power One Inverter

D19224LPTP	1.92kW 8 x 240W Plain Tile	<b>4283.00</b>
D19224LSTP	1.92kW 8 x 240W Slate Tile	<b>4283.00</b>
D19224LRTPT	1.92kW 8 x 240W Short Tile	<b>4283.00</b>
D21633LPTP	2.16kW 9 x 240W Plain Tile	<b>4606.15</b>
D21633LSTP	2.16kW 9 x 240W Slate Tile	<b>4606.15</b>
D21633LRTPT	2.16kW 9 x 240W Short Tile	<b>4606.15</b>
D28826LPTP	2.88kW 12 x 240W Plain Tile	<b>5939.64</b>
D28826LSTP	2.88kW 12 x 240W Slate Tile	<b>5939.64</b>
D28826LRTPT	2.88kW 12 x 240W Short Tile	<b>5939.64</b>
D38428LPTP	3.84kW 16 x 240W Plain Tile	<b>7533.40</b>
D38428LSTP	3.84kW 16 x 240W Slate Tile	<b>7533.40</b>
D38428LRTPT	3.84kW 16 x 240W Short Tile	<b>7533.40</b>

### Modules

DPVM240P6	240Wp Polycrystalline Solar PV Modules with 10 Year Warranty Minimum Order 6 Modules	<b>261.35</b>
DPVM240P6P	Pallet of 20 (Price Each)	<b>254.81</b>
DPVM240P6L	Full Load of 500 (Price Each)	<b>248.28</b>

### Accessories for SMA Inverters

D039941	Radio Piggy Back	<b>128.76</b>
D038739	Sunny Matrix Display	<b>1476.62</b>
D039965	Sunny Sensor Box	<b>404.55</b>
D040329	Sunny Web Box with Bluetooth Technology	<b>568.54</b>

### Accessories for PowerOne Inverters

D039910	Desktop Display	<b>371.72</b>
D039927	Radio Module	<b>127.04</b>

### Roof Mounting Accessories

D04133	Installer Spares Kit	<b>186.06</b>
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*Consists of: additional/spare roof kit components, cable, mechanical fixing, end caps, rail connectors, roof hooks, cross connectors, corner clamps, middle clamps, warning labels*

# Renewables & Sustainable Energy Products - SOLAR PV



## Grant Solar Photovoltaic DG9037

Kit Name	Description	Price
<b>Six Module Kits</b>		
G6GOP25240	1.44kW Portrait On-Roof 2 Rows	<b>4156.00</b>
<b>Eight Module Kits</b>		
G8GOP25240	1.92kW Portrait On-Roof 2 Rows	<b>5574.00</b>
<b>Ten Module Kits</b>		
G10MOP25240	2.40kW Portrait On-Roof 2 Rows	<b>6499.00</b>
<b>Twelve Module Kits</b>		
G12OP25240	2.88kW Portrait On-Roof 2 Rows	<b>7790.00</b>
<b>Fourteen Module Kits</b>		
G14OP25240	3.36kW Portrait On-Roof 2 Rows	<b>8880.00</b>
<b>Sixteen Module Kits</b>		
G16FOP25240	3.84kW Portrait On-Roof 2 Rows	<b>10090.00</b>
<b>Eighteen Module Kits</b>		
G18SOP25240	4.32kW Portrait On-Roof 2 Rows	<b>11268.00</b>

Prices and product availability should be checked before ordering



Grant Solar Photovoltaic System Diagram



## Solar Photovoltaic Thermasol On Roof Solar PV Kits DG9036

Kit Name	Description	Price
IT207018	1.0kW Pack 1 x Row 5 Portrait	<b>4000.00</b>
IT207019	1.4kW Pack 4 + 3 Portrait	<b>5333.33</b>
IT207020	1.6kW Pack 2 x 4 Portrait	<b>5894.74</b>
IT207021	1.8kW Pack 5 + 4 Portrait	<b>6456.14</b>
IT207022	2.0kW Pack 2 x 5 Portrait	<b>7017.54</b>
IT207023	2.4kW Pack 2 x 6 Portrait	<b>8421.05</b>
IT207024	2.8kW Pack 2 x 7 Portrait	<b>9684.21</b>
IT207025	3.0kW Pack 3 x 5 Portrait	<b>10245.61</b>
IT207026	3.6kW Pack 2 x 9 Portrait	<b>12491.23</b>
IT207027	4.0kW Pack 4 x 5 Portrait	<b>13754.39</b>



## Solar PV Standard Kits DG9069

Kit Name	Description	Price
M235867	1.11kW 6 Panel Portrait	<b>3983.51</b>
M235868	1.11kW 6 Panel Landscape	<b>4294.33</b>
M234200	1.48kW 8 Panel Portrait	<b>5377.70</b>
M234202	1.67kW 9 Panel Portrait	<b>5854.37</b>
M234225	1.85kW 10 Panel Portrait	<b>6286.49</b>
M234227	2.22kW 12 Panel Portrait	<b>7320.25</b>
M234229	2.78kW 15 Panel Portrait	<b>8749.31</b>
M234231	2.96kW 16 Panel Portrait	<b>9242.70</b>
M234233	3.33kW 18 Panel Portrait	<b>10294.51</b>
M234235	3.70kW 20 Panel Portrait	<b>11753.52</b>
M234237	4.44kW 24 Panel Portrait	<b>13723.40</b>



## Solar Photovoltaic On Roof Kits 250w Modules DG9059

Kit Name	Description	Price
UBB10PPK	1.0kW Solar PV Portrait	<b>2643.91</b>
UBB125PPK	1.25kW Solar PV Portrait	<b>3065.89</b>
UBB15016PPK	1.5kW Solar PV 1 x 6	<b>3380.24</b>
UBB17517PPK	1.75kW Solar PV 1 x 7	<b>3798.36</b>
UBB2024PPK	2.0kW Solar PV 2 x 4	<b>4339.59</b>
UBB22519PPK	2.25kW Solar PV 1 x 9	<b>5139.45</b>
UBB25025PPK	2.5kW Solar PV 2 x 5	<b>5320.55</b>
UBB3034PPK	3.0kW Solar PV 3 x 4	<b>6193.31</b>
UBB3026PPK	3.0kW Solar PV 2 x 6	<b>6605.18</b>
UBB35027PPK	3.5kW Solar PV 2 x 7	<b>7348.93</b>
UBB4028PPK	4.0kW Solar PV 2 x 8	<b>8190.43</b>
UBB45029PPK	4.5kW Solar PV 2 x 9	<b>9176.40</b>
UBB45036PPK	4.5kW Solar PV 3 x 6	<b>9473.09</b>
UBB5045PPK	5.0kW Solar PV 4 x 5	<b>10128.09</b>
UBB50210PPK	5.0kW Solar PV 2 x 10	<b>10266.19</b>



## Solar PV Components DG9059

Component Name	Description	Price
<b>Modules</b>		
UBB950160	250w Alex Module	<b>411.76</b>
UBB950155	190w Alex Module	<b>314.13</b>
UBB950122	ET Solar 195w Mono	<b>351.00</b>
UBB821068	250w Mono Black	<b>450.00</b>
<b>Accessories</b>		
UBB950112	DC Isolator 16A	<b>33.41</b>
UBB950114	DC Isolator 25A	<b>26.83</b>
UBB950106	PV Cable 4mm Single Core Black 1m	<b>0.85</b>
UBB950105	DC Cabling 10m	<b>8.53</b>
UBB950108	DC Cabling 15m	<b>12.80</b>
UBB950109	DC Cabling 20m	<b>17.07</b>
UBB950111	DC Cabling 30m	<b>25.60</b>
UBB950102	Single Phase Generating Meter	<b>48.63</b>
UBB950110	Garage Unit	<b>41.00</b>
UBB950116	Hazard Warning Labels	<b>2.28</b>
UBB950118	MV4 Connectors (Pair M&F)	<b>3.92</b>
UBB950119	Slate/Plain Tile Hook	<b>8.63</b>
UBB950120	Profile Tile Hook	<b>8.63</b>
UBB950125	Roof Hook Screws	<b>0.08</b>
UBB770027	Rails 1.5m	<b>6.92</b>
UBB770026	Rails 1.0m	<b>4.55</b>
UBB770025	Rails 0.5m	<b>2.43</b>
UBB770037	Zinc Side Flashing	<b>6.93</b>
UBB770042	Expanding Tape	<b>13.60</b>
UBB770043	Rail Connectors	<b>1.23</b>
UBB770003	In Roof Anchors	<b>1.55</b>
UBB770017	Hook Screws	<b>0.04</b>
UBB770032	Brackets	<b>0.59</b>
UBB950126	Bracket Bolt Black (On Roof)	<b>0.33</b>
UBB770034	Hammerhead Bolts	<b>0.16</b>
UBB770035	Nuts	<b>0.09</b>
UBB770021	End Clamp	<b>2.08</b>
UBB770020	Middle Clamp	<b>1.05</b>
UBB770001	Multisun Merge Roll	<b>95.15</b>
UBB850303	Waterproof Screws	<b>0.08</b>
UBB770050	Mounting Rail End Caps	<b>0.17</b>
UBB534040	Ubiflex Lead Free Flashing 400mm	<b>214.53</b>
UBB534066	Ubiflex High Tack	<b>4.47</b>
UBB950037	6.2 Console Flat Roof	<b>70.69</b>
UBB820253	4.1 Console Flat Roof	<b>67.48</b>
UBB770036	Bracket Bolt Grey In Roof	<b>0.27</b>
UBB770038	Plain Flat Washer	<b>0.07</b>
UBB950127	Schletter Universal Roof Hook	<b>8.89</b>
UBB950128	Schletter Slate Roof Hook Adjustable	<b>5.15</b>
<b>Inverters</b>		
UBB770098	Soladin 600	<b>332.55</b>
UBB770099	SMA SB1200	<b>819.76</b>
UBB770103	SMA SB1700	<b>973.71</b>
UBB770104	SMA SB2500	<b>1283.39</b>
UBB770105	SMA SB3000	<b>1393.61</b>
UBB770111	SMA SB2000HF-30	<b>1275.20</b>
UBB770106	SMA SB2500HF-30	<b>1366.29</b>
UBB770107	SMA SB3000HF-30	<b>1457.52</b>
UBB770112	SMA SB3000HF-20	<b>1501.52</b>
UBB770110	SMA SB3300	<b>1532.75</b>
UBB770108	SMA SB3800	<b>1577.00</b>
UBB770165	Eversolar GB1700	<b>741.96</b>
UBB770166	Eversolar GB2000	<b>834.51</b>
UBB770167	Eversolar GB2500	<b>980.39</b>
UBB770168	Eversolar TL3200	<b>1185.88</b>
UBB770169	Eversolar TL4000	<b>1358.43</b>
UBB770170	Eversolar TL4600	<b>1513.72</b>
UBB770171	Eversolar TL5400	<b>1560.79</b>
UBB770172	Eversolar 3 Phase 10kW	<b>3232.95</b>
UBB770173	Eversolar 3 Phase 12kW	<b>3425.88</b>
UBB770174	Eversolar 3 Phase 17kW	<b>3780.39</b>

KEYWORD	DESCRIPTION	PRICE £
<b>Unvented Cylinders</b>		
<b>Albion</b>		
<b>Indirect Unvented Twin Coil Cylinders</b>		
ATCI180	180ltr Twin Coil St/St Cylinder	<b>1178.00</b>
ATCI210	210ltr Twin Coil St/St Cylinder	<b>1212.00</b>
ATCI300	300ltr Twin Coil St/St Cylinder	<b>1454.00</b>
<b>UltraSteel Stainless Steel Unvented Cylinders</b>		
AUSD180	180ltr Direct Solar Cylinder	<b>1100.20</b>
AUSD210	210ltr Direct Solar Cylinder	<b>1129.16</b>
AUSD250	250ltr Direct Solar Cylinder	<b>1230.50</b>
AUSD300	300ltr Direct Solar Cylinder	<b>1375.26</b>
AUSI180	180ltr Twin Coil Indirect Solar Cylinder	<b>1341.78</b>
AUSI210	210ltr Twin Coil Indirect Solar Cylinder	<b>1378.06</b>
AUSI250	250ltr Twin Coil Indirect Solar Cylinder	<b>1450.58</b>
AUSI300	300ltr Twin Coil Indirect Solar Cylinder	<b>1595.62</b>

<b>Ariston</b>		
<b>Aquabravo Twin Coil Stainless Steel Cylinders</b>		
A3826500	Aquabravo ITS1215 - 210ltr	<b>1457.00</b>
A3826501	Aquabravo ITS1255 - 255ltr	<b>1564.00</b>
A3826502	Aquabravo ITS1305 - 305ltr	<b>1723.00</b>

<b>Glowworm Solar Cylinders</b>		
<b>Indirect Stainless Steel</b>		
GW10006232	200ltr Twin Coil Cylinder Pack	<b>1109.00</b>
GW10006233	250ltr Twin Coil Cylinder Pack	<b>1185.00</b>
GW10006234	300ltr Twin Coil Cylinder Pack	<b>1267.00</b>

<b>Grant Duowave Solar Cylinders</b>		
<b>Direct Stainless Steel Single Coil</b>		
GDUODIR170	170ltr Unvented Cylinder	<b>1173.00</b>
GDUODIR200	200ltr Unvented Cylinder	<b>1234.00</b>
GDUODIR250	250ltr Unvented Cylinder	<b>1425.00</b>
GDUODIR300	300ltr Unvented Cylinder	<b>1502.00</b>
GDUODIR400	400ltr Unvented Cylinder	<b>1884.00</b>

<b>Indirect Stainless Steel Twin Coil</b>		
GDUOIND170	170ltr Unvented Cylinder	<b>1333.00</b>
GDUOIND200	200ltr Unvented Cylinder	<b>1380.00</b>
GDUOIND250	250ltr Unvented Cylinder	<b>1569.00</b>
GDUOIND300	300ltr Unvented Cylinder	<b>1643.00</b>
GDUOIND400	400ltr Unvented Cylinder	<b>2042.00</b>
GDUOIND500	500ltr Unvented Cylinder	<b>2250.00</b>

<b>Indirect Stainless Steel Triple Coil</b>		
GDUOPLUS300	300ltr Vented Cylinder	<b>1648.00</b>
GDUOPLUS300U	300ltr Unvented Cylinder	<b>1771.00</b>

<b>Heatrae Megafluo Eco Solar</b>		
<b>Unvented</b>		
MECOUI190SI	Indirect 190ltr 95050511	<b>2180.74</b>
MECOUI210SI	Indirect 210ltr 95050513	<b>2358.76</b>
MECOUI250SI	Indirect 250ltr 95050515	<b>2559.05</b>
MECOUI300SI	Indirect 300ltr 95050517	<b>2737.05</b>
MECOUD170SDD	Direct 170ltr 95050527	<b>1980.48</b>
MECOUD210SDD	Direct 210ltr 95050512	<b>2069.48</b>



Heatrae Megafluo Solar

KEYWORD	DESCRIPTION	PRICE £
MECOUD260SDD	Direct 260ltr 95050528	<b>2225.26</b>
MECOUD300SDD	Direct 300ltr 95050516	<b>2303.15</b>
<b>Santon Premier Plus Solar</b>		
<b>Direct</b>		
PP170ESOLAR	170ltr PP170E Solar Cylinder	<b>1199.89</b>
PP210ESOLAR	210ltr PP210E Solar Cylinder	<b>1251.32</b>
PP260ESOLAR	260ltr PP260E Solar Cylinder	<b>1388.26</b>
PP300ESOLAR	300ltr PP300E Solar Cylinder	<b>1524.06</b>

<b>Indirect</b>		
PP190BSOLAR	190ltr PP190B Solar Twin Coil Cylinder	<b>1483.96</b>
PP210BSOLAR	210ltr PP210B Solar Twin Coil Cylinder	<b>1524.06</b>
PP250BSOLAR	250ltr PP250B Solar Twin Coil Cylinder	<b>1604.27</b>
PP300BSOLAR	300ltr PP300B Solar Twin Coil Cylinder	<b>1764.70</b>

<b>OSO</b>		
<b>Indirect</b>		
OSO20Ri210TC	210ltr 20Ri210 22mm Connections	<b>1514.70</b>
OSO20Ri250TC	250ltr 20Ri250 22mm Connections	<b>1637.10</b>
OSO20Ri330TC	330ltr 20Ri330 22mm Connections	<b>2145.06</b>

<b>Range Tribune</b>		
<b>Indirect</b>		
RTT180SOLAR	180ltr Twin Coil Unvented Solar Cylinder	<b>1397.12</b>
RTT210SOLAR	210ltr Twin Coil Unvented Solar Cylinder	<b>1430.00</b>
RTT250SOLAR	250ltr Twin Coil Unvented Solar Cylinder	<b>1512.18</b>
RTT300SOLAR	300ltr Twin Coil Unvented Solar Cylinder	<b>1629.60</b>

<b>Vaillant</b>		
<b>Indirect</b>		
AURO200	200ltr AuroStor Twin Coil Cylinder	<b>1329.82</b>
AURO250	250ltr AuroStor Twin Coil Cylinder	<b>1407.24</b>
AURO300	300ltr AuroStor Twin Coil Cylinder	<b>1486.18</b>

<b>Viessmann</b>		
<b>Indirect</b>		
VM7160775	210ltr Vitocell 200-B Twin Coil Cylinder	<b>1338.00</b>
VM7160776	250ltr Vitocell 200-V Twin Coil Cylinder	<b>1392.00</b>
VM7160777	300ltr Vitocell 200-V Twin Coil Cylinder	<b>1499.00</b>

<b>Vokera</b>		
<b>AquaFlow Unvented Cylinders</b>		
V863	150ltr Aquaflow Single Coil	<b>1189.00</b>
V864	200ltr Aquaflow Single Coil	<b>1385.00</b>
V865	250ltr Aquaflow Single Coil	<b>1559.00</b>
V924	250ltr Aquaflow Twin Coil	<b>1775.00</b>
V925	300ltr Aquaflow Twin Coil	<b>1875.00</b>

<b>Solar High Temperature Pipe Flashing</b>		
SOLARDEK	SolarDek Lead Based Flexible Rubber Flashing - can be used up to 35mm OD pipe	<b>55.43</b>



SolarDek Flashing

<b>Twin Coil Copper Vented Cylinders</b>		
<b>Albion</b>		
<b>Centurion Eco Indirect Open Vented</b>		
<b>Approved for use with solar systems by BRE Clear Skies</b>		
ACENT104530	1050 x 450 Indirect 30mm Eco Cylinder	<b>470.20</b>
ACENT124530	1200 x 450 Indirect 30mm Eco Cylinder	<b>496.67</b>
ACENT134530	1300 x 450 Indirect 30mm Eco Cylinder	<b>585.62</b>
ACENT154030	1500 x 400 Indirect 30mm Eco Cylinder	<b>512.47</b>
ACENT154530	1500 x 450 Indirect 30mm Eco Cylinder	<b>627.44</b>
ACENT184530	1800 x 450 Indirect 30mm Eco Cylinder	<b>714.11</b>

<b>Superduty Eco Indirect Open Vented</b>		
<b>Approved for use with solar systems by BRE Clear Skies</b>		
ASD104545	1050 x 450 Indirect 45mm Eco Cylinder	<b>604.38</b>
ASD124545	1200 x 450 Indirect 45mm Eco Cylinder	<b>636.56</b>
ASD134545	1450 x 450 Indirect 45mm Eco Cylinder	<b>733.82</b>
ASD154045	1500 x 400 Indirect 45mm Eco Cylinder	<b>673.58</b>
ASD154545	1500 x 450 Indirect 45mm Eco Cylinder	<b>773.58</b>
ASD184545	1800 x 450 Indirect 45mm Eco Cylinder	<b>855.38</b>



## Solar Thermal Components

<b>Solar Controllers</b>		
<b>Approved for use with solar systems by BRE Clear Skies</b>		
INTASR001	Solar Logic Multi Function Controller	<b>175.88</b>
INTABS3	BS3 Replacement System Controller	<b>205.50</b>
INTA8982	Temperature Differential Switch (Auto/On/Off)	<b>75.00</b>
<b>Solar Pump Stations</b>		
INTASL10	SolarLogic Maxi Twin Line	<b>334.86</b>
INTASL1	SolarLogic Single Line	<b>247.50</b>



IntaEco Solar Pump Station

<b>Intersol Combi Solar Diverter</b>		
INTA555CSD1	Intasol Valve	<b>246.25</b>



IntaEco Solar Diverter

<b>SVD Tank</b>		
INTA550001	Glycol Discharge from Safety Valve Tank	<b>73.50</b>



IntaEco Safety Valve Discharge Tank

<b>Intasol Thermostatic Mixing Valves</b>		
INTA50022SR	Solar Mixing Valve 22mm	<b>95.16</b>
INTA50028SR	Solar Mixing Valve 28mm	<b>125.85</b>
INTA122SRLP	Solar LP 22mm Mixing Valve	<b>118.40</b>



Intersol Thermostatic Mixing Valves

KEYWORD	DESCRIPTION	PRICE £
<b>Solar Expansion Vessels</b>		
INTA0VE012	12ltr Solar Vessel Max Temp 130°	<b>36.49</b>
INTA0VE018	18ltr Solar Vessel Max Temp 130°	<b>48.60</b>
INTA0VE024	24ltr Solar Vessel Max Temp 130°	<b>56.58</b>
INTA0VE035	35ltr Solar Vessel Max Temp 130°	<b>104.50</b>
INTA0VE050	50ltr Solar Vessel Max Temp 130°	<b>125.69</b>
INTASOVKA1	Vessel Connection Kit A1 - Auto	<b>49.50</b>
INTAZSV1	ZSV 3/4" Vessel Isolating Valve	<b>14.62</b>
INTAZSK1	ZSK 1" Vessel Isolating Valve	<b>17.21</b>



Solar Expansion Vessels

<b>Solar Motorised Valves</b>		
INTASMV2430	22mm 2 Port Zone Valve 5 Wire	<b>85.75</b>
INTASMV3417	22mm 3 Port Zone Valve 5 Wire	<b>103.75</b>
<b>Solar Valves &amp; Components</b>		
INTA146CST	Safety Valve 1/2" x 3/4" 6 Bar	<b>11.50</b>
INTAAIR31	3/8" Solar Air Vent	<b>22.82</b>
INTA300284	Ball Valve To Isolating Air Vent	<b>11.49</b>
INTASOLDV001	1/2" Drain Valve 16 Bar 180C	<b>8.37</b>
<b>Annular Solar Pipe Systems - Pipe Packs (K Flex) 4 Core Cable, 14mm Insulation</b>		
INTAAN01510	10mtr DN16 Annular Twin Way Pipe	<b>247.86</b>
INTAAN01515	15mtr DN16 Annular Twin Way Pipe	<b>371.80</b>
INTAAN01520	20mtr DN16 Annular Twin Way Pipe	<b>495.30</b>
INTAAN01525	25mtr DN16 Annular Twin Way Pipe	<b>617.50</b>

<b>Annular Solar Pipe Systems - Pipe Fittings</b>		
INTA7047	3/4" Female Nut - DN16 Pipe	<b>1.06</b>
INTA3075	3/4" Brass Coupling - DN16 Pipe	<b>5.64</b>
INTA4022C	22mm Compression Coupling 3/4"M	<b>4.90</b>
INTA4022SP	22mm Pipe Spigot x 3/4"M for DN16	<b>4.71</b>
INTA500CC1	Spare - 20 x C Clips	<b>10.00</b>
INTA3027	Pump Station Fitting - 3/4" O Ring	<b>3.78</b>
INTA7PAC	3/4" Female Nut/Gasket/Seal	<b>2.34</b>
INTAW0020	10 x 3/4" Fibre HT Gasket/Seal	<b>3.00</b>
INTA22561	Brass HC Inserts For 22mm Pipe	<b>1.01</b>

<b>Solar Flashing Kit &amp; Panel Fittings</b>		
INTASEA101L	2 x Lead Roof Flashing 5mm - 50mm	<b>96.37</b>
INTASEA220A	Twin Pipe Aluminium Flashing Kit	<b>54.30</b>

<b>Flexway Solar Panel Through Roof Connection Pack</b>		
INTAWAY22	2 x 1mtr DN20 Flex Pipes x 22mm	<b>65.70</b>

<b>Solar Pipe Insulation Packs</b>		
INTA214150	15mm Solar Pipe Insulation 13mm x 2mtr	<b>278.80</b>
INTA2142201	22mm Solar Pipe Insulation 13mm x 2mtr	<b>230.30</b>
INTA22015SS	15mm Solar Pipe Insulation 19mm x 2mtr	<b>278.80</b>
INTA22022SS	22mm Solar Pipe Insulation 19mm x 2mtr	<b>290.16</b>
INTA022028SS	28mm Solar Pipe Insulation 19mm x 2mtr	<b>254.40</b>
INTA004737	20 x Pipe Ties & Wall Plugs	<b>282.88</b>

<b>Specialist Tools For Solar Installers</b>		
INTA941001	INOX Solar Pipe Cutter	<b>59.00</b>
INTA201971	Flanging Tool	<b>171.00</b>

<b>Trade Solar Packs</b>		
INTACPAK	C Pack Control & Pump Station	<b>651.97</b>

<b>Solar System Filling Sets</b>		
INTASSIL1	Solafill II 240v Filling Pump	<b>582.40</b>
INTASSIL110	Solafill II 110v Filling Pump	<b>592.56</b>

<b>Solarvent Cylinder Conversion Coil</b>		
INTASVS900	Solarvent Conversion Coil 900	<b>277.50</b>
INTASVS105	Solarvent Conversion Coil 1050	<b>277.50</b>
INTASVSIMM2	Solarvent 2KW Immersion Heater	<b>30.00</b>
INTASFP0800	Solar-Fer Jointing Paste 250g (Box of 6 Tins)	<b>15.40</b>
INTASFS24013	Solar-Fer String (Box of 6 Dispensers)	<b>15.40</b>

<b>Compression Fittings for Annular Stainless Steel Pipe</b>		
INTA20400	DN16 Comp x 1/2" Male BSP Connector	<b>9.78</b>
INTA20401	DN16 Comp x 3/4" Male BSP Connector	<b>10.72</b>
INTA20402	DN20 Comp x 3/4" Male BSP Connector	<b>14.82</b>
INTA20403	DN20 Comp x 1" Male BSP Connector	<b>18.93</b>

INTA20404	DN25 Comp x 1 1/4" Male BSP Connector	<b>30.84</b>
INTA20405	DN16 Comp x 1/2" Female BSP Connector	<b>9.85</b>
INTA20406	DN16 Comp x 3/4" Female BSP Connector	<b>10.61</b>
INTA20407	DN20 Comp x 3/4" Female BSP Connector	<b>14.41</b>
INTA20408	DN20 Comp x 1" Female BSP Connector	<b>14.71</b>
INTA20409	DN16 Compression x 15mm Copper Pipe Compression Coupling	<b>11.50</b>
INTA20411	DN16 Compression x 22mm Copper Pipe Compression Coupling	<b>12.81</b>
INTA20413	DN20 Compression x 22mm Copper Pipe Compression Coupling	<b>20.31</b>
INTA20414	DN25 Compression x 22mm Copper Pipe Compression Coupling	<b>23.65</b>
INTA20415	DN16 Compression Pipe Coupling	<b>13.15</b>
INTA20416	DN20 Compression Pipe Coupling	<b>21.18</b>
INTA20417	DN25 Compression Pipe Coupling	<b>24.51</b>
INTA20418	DN16 Spare Comp Ring (Bag of 10)	<b>16.81</b>
INTA20420	DN20 Spare Comp Ring (Bag of 10)	<b>17.22</b>
INTA20422	DN25 Spare Comp Ring (Bag of 10)	<b>23.15</b>

<b>Fernox</b>		
<b>Solar Fluids</b>		
F57675	Solar Protection S1 10ltr	<b>53.61</b>
F57674	Solar Protection S1 20ltr	<b>105.80</b>
F57673	Solar Protection S1 25ltr	<b>130.49</b>

<b>GSHP &amp; ASHP Fluids</b>		
F58995	HP5 20ltr A/sor & U/flr	<b>49.90</b>
F58996	HP5 25ltr A/sor & U/flr	<b>52.75</b>
F58997	HP5c 10ltr A/sor & U/flr Concentrate	<b>60.60</b>
F58998	HP15 20ltr Air & G/S Heat Pump	<b>79.82</b>
F58999	HP15 25ltr Air & G/S Heat Pump	<b>99.00</b>
F59000	HP15 205ltr Air & G/S Heat Pump	<b>642.50</b>
F59001	HP15 1000ltr Air & G/S Heat Pump	<b>2737.50</b>
F59002	HP15c 20ltr Air & G/S Heat Pump Concentrate	<b>111.25</b>
F59003	HP15c 25ltr Air & G/S Heat Pump Concentrate	<b>137.25</b>
F59004	HP15c 205ltr Air & G/S Heat Pump Concentrate	<b>993.58</b>
F59180	HP Fill 1ltr	<b>40.60</b>
F59182	HP Cleaner 1ltr	<b>39.24</b>

<b>Sentinel Performance Solutions</b>		
<b>Solar Range Chemicals</b>		
R10010L	R100 Solar Thermal Fluid 10ltr	<b>66.55</b>
R10020L	R100 Solar Thermal Fluid 20ltr	<b>125.26</b>
R20010L	R200 Solar Thermal Cleaner 10ltr	<b>61.50</b>
R20020L	R200 Solar Thermal Cleaner 20ltr	<b>106.72</b>
SOLARTK	Solar Inhibitor Test Kit	<b>425.00</b>

<b>GSHP Range Chemicals</b>		
R50020	R500 Thermal Fluid Readymix 20ltr	<b>82.63</b>
R500200	R500 Thermal Fluid Readymix 200ltr	<b>565.95</b>
R5001000	R500 Thermal Fluid Readymix 1000ltr	<b>3708.78</b>
R50020C	R500 Thermal Fluid Concentrate 20ltr	<b>130.25</b>
R500200	R500 Thermal Fluid Concentrate 200ltr	<b>565.95</b>
R5001000	R500 Thermal Fluid Concentrate 1000ltr	<b>3708.78</b>
R80020	R800 System Cleaner 20ltr	<b>61.20</b>
R800200	R800 System Cleaner 200ltr	<b>308.30</b>
R8001000	R800 System Cleaner 1000ltr	<b>2012.40</b>

<b>ASHP Range Chemicals</b>		
R60020	R600 Thermal Fluid 20ltr	<b>192.86</b>
R7001	R700 Sanitiser & Biocide 1ltr	<b>50.50</b>
R700TK	R700 Test Kit Each	<b>103.12</b>
SENTFCK	Frost Check Test Kit Each	<b>322.00</b>



Fernox Solar S1



Energy Electricity Monitor

## Renewables Electricity Monitor

<b>Smart</b>		
SMART003	Real Time Display Wireless Electricity Monitor	<b>37.94</b>

## Heat Pump Accessories

<b>Uponor</b>		
<b>Pre-Insulated Pipe Thermo Single</b>		

U1018109	Thermo Single 25/140mm	200	<b>32.54</b>
U1018110	Thermo Single 32/140mm	200	<b>35.31</b>
U1018111	Thermo Single 40/175mm	200	<b>46.34</b>

<b>Thermo Twin</b>			
U1018134	Thermo Twin 2 x 32/175mm	200	<b>44.56</b>
U1018135	Thermo Twin 2 x 40/175mm	200	<b>50.67</b>
U1018136	Thermo Twin 2 x 32/175mm	200	<b>54.63</b>

<b>Aqua Single</b>			
U1018117	Aqua Single 25/140mm	200	<b>33.74</b>
U1018118	Aqua Single 32/140mm	200	<b>37.60</b>

<b>Aqua Twin</b>			
U1018139	Aqua Twin 25 + 25/175mm	200	<b>47.91</b>
U1018140	Aqua Twin 32 + 25/175mm	200	<b>50.79</b>

<b>Quattro</b>			
U1018147	Quattro 2 x 25/25 + 25/175mm	200	<b>65.76</b>
U1018148	Quattro 2 x 32/25 + 25/175mm	200	<b>72.22</b>
U1018149	Quattro 2 x 32/32 + 25/175mm	200	<b>75.50</b>

<b>Pre-Insulated Pipe End Caps Rubber End Cap Set inc Clamping Ring</b>			
U1018306	End Cap Quattro	1	<b>38.86</b>
U1018308	End Cap Set Twin 175 for 25+32+50	1	<b>39.85</b>
U1018309	End Cap 2 x 25 + 32 + 40/175mm	1	<b>36.16</b>
U1018313	End Cap 32 + 40 + 50/175mm	1	<b>37.14</b>
U1018315	End Cap 25 + 32/140mm	1	<b>30.54</b>

<b>Pre-Insulated Pipe Fittings &amp; Components Wipex Coupling 6 Bar/95°</b>			
U1018328	Wipex Coupling 6B 25 x 1" MT	1	<b>19.63</b>
U1018329	Wipex Coupling 6B 32 x 1" MT	1	<b>21.59</b>
U1018330	Wipex Coupling 6B 40 x 1 1/4" MT	1	<b>28.34</b>

<b>Wipex Coupling 10 Bar/95°</b>			
U1018336	Wipex Coupling 25 x 3,5 - G1 PN10	1	<b>20.38</b>
U1018338	Wipex Coupling 32 x 4,4 - G1 PN10	1	<b>22.82</b>

<b>Energy Systems (Collector Pipe for GSHPs) Return Collector with Return Elbow Attached</b>			
U1002157	PEM 40 x 2.4 U-Bend 2 x 100m	100m	<b>3.75</b>
U1002158	PEM 40 x 2.4 U-Bend 2 x 150m	150m	<b>3.75</b>

<b>Single Collector for Ground Energy</b>			
U1002151	PEM 40 x 2.4 Single Pipe 300m	300m	<b>1.83</b>
U1002152	PEM 40 x 2.4 Single Pipe 250m	250m	<b>1.83</b>
U1002153	PEM 40 x 2.4 Single Pipe 400m	400m	<b>1.83</b>
U1002154	PEM 40 x 2.4 Single Pipe 500m	500m	<b>1.83</b>

<b>Rubber Hood</b>			
U1002163	Pressure Seal 138-168mm	1	<b>89.93</b>

<b>Round Bottom Weight</b>			
U1002167	Round bottom Weight	1	<b>33.56</b>

<b>REM 40 x 2.4 PN6.3</b>			
U1002148	6m Straight Length ES	6m	<b>13.29</b>

<b>Expander Cap</b>			
U1002161	Expander Cap Steel Pipe 168mm ES	1	<b>55.83</b>

# Renewables & Sustainable Energy Products - HEAT PUMPS

KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
	A heat pump converts low grade energy from the atmosphere or earth and transfers this energy into useful heat which can be used in the domestic central heating system. Heat pumps undertake this process very efficiently; the parameter that measures this process is called the coefficient of performance (CoP). A typical CoP is around 3 which means the heat pump is 300% efficient compared to a high efficiency condensing boiler which is 92%			- 95% efficient. Thus a well designed heat pump installation can reduce your energy running costs and carbon footprint.			new build and best suited for low temperature heating systems such as underfloor heating. Please see pages 123-128 which outlines the underfloor heating configurations for heat pumps.	
				There are many types of heat pump; ground source (GSHP) removes heat from the ground; air source (ASHP) removes heat from the atmosphere and exhaust air (EAHP) which combine ventilation and heating for hot water and space heating requirements. GSHP, ASHP and EAHP can be used in retrofit or			Because of the technical nature of these products, we would recommend that installers have attended the relevant manufacturers training course before selecting and purchasing the product.	

KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
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Ariston Nuos Exhaust Air Heat Pump

## Ariston Heat Pumps

KEYWORD	DESCRIPTION	PRICE £	DG9099
A3210035	Nuos 80hp	1300.00	
A3210036	Nuos 100hp	1360.00	
A406813	Unvented Kit - NUOS 80/100	142.00	
A3208052	NUOS - External Wall Kit	40.00	
A3208053	NUOS - Inner Wall Kit	75.00	
A3208036	NUOS - 125mm Pipe - 1.5m	47.00	
A3208037	NUOS - 125mm Pipe - 1.0m	52.00	
A3208038	ABS Connection for 125mm Pipe	14.00	
A3028039	Flexible Connection for 125mm Pipe	73.50	
A3028040	ABS 90° Elbow f/f 125mm Pipe	17.00	
A3208041	2 Wall Brackets for 125mm Pipe	150.00	
A3208049	ABS Cover 190 x 160mm for Round Pipe	13.00	
A3208042	ABS Vertical Elbow from 125mm to Rectangular 150 x 170mm	16.00	
A3208043	ABS Horizontal Connection from 125mm to Rectangular 150 x 170mm	15.50	
A3208044	150 x 70mm PVC Rectangular Pipe 1.5m	48.00	
A3208045	ABS Horizontal Connection for Rectangular Pipe 150 x 70mm	14.00	
A3208046	ABS Vertical Elbow for Rectangular Pipe 150 x 170mm	16.00	
A3208047	ABS Horizontal Elbow for Rectangular Pipe 150 x 170mm	17.00	
A3208048	2 Wall Brackets for Rectangular Pipe 150 x 170mm with Screws	14.00	
A3208050	Flexible Grates	18.50	
A3208051	Flexible Coupling	34.00	



Baxi Geoflo Heat Pump

## Baxi Heat Pumps

KEYWORD	DESCRIPTION	PRICE £	DG9065
Choose both heat pump and slinky for a complete unit. Includes antifreeze. Co-efficient Of Performance (COP) 4.			
<b>Geoflo Ground Source Heat Pump Range</b>			
GEOFL04	Geoflo 4kW Electric System. Single Phase 230 Volts. 5119486 Height 900mm x Width 550mm x Depth 570mm - Weight 85kg	4768.78	
GEOFL06	Geoflo 6kW Electric System. Single Phase 230 Volts. 5119487 Height 900mm x Width 550mm x Depth 570mm - Weight 90kg	5296.39	
GEOFL08	Geoflo 8kW Electric System. Single Phase 230 Volts. 5119488 Height 900mm x Width 550mm x Depth 570mm - Weight 95kg	5621.07	
GEOFL010	Geoflo 10kW Electric System. Single Phase 230 Volts. 5119489 Height 900mm x Width 550mm x Depth 570mm - Weight 100kg	5955.90	
<b>Geoflo 'Slinky' Manifold &amp; Ground Array Kit - Left Hand</b>			
5119961	Slinky Pack for 4kW Unit. Quantity 1 - Length 40m each	963.90	
5119963	Slinky Pack for 6kW Unit. Quantity 2 - Length 30m each	1704.59	
5119965	Slinky Pack for 8kW Unit. Quantity 2 - Length 40m each	1887.22	
5119967	Slinky Pack for 10kW Unit. Quantity 2 - Length 50m each	2110.44	
<b>Geoflo 'Slinky' Manifold &amp; Ground Array Kit - Right Hand</b>			
5119962	Slinky Pack for 4kW Unit. Quantity 1 - Length 40m each	963.90	
5119964	Slinky Pack for 6kW Unit. Quantity 2 - Length 30m each	1704.59	
5119966	Slinky Pack for 8kW Unit. Quantity 2 - Length 40m each	1887.22	
5119968	Slinky Pack for 10kW Unit. Quantity 2 - Length 50m each	2110.44	



Dimplex Inverter Heat Pump

## Dimplex Heat Pumps

KEYWORD	DESCRIPTION	PRICE £	DG9066
<b>Single Phase Ground Source Heat Pumps</b>			
DIMSI14ME	14kW Heat Pump	5113.00	
DIMSI16MEK	16kW Heat Pump Integrated	7454.91	
DIMSIH4ME	4kW Heat Pump High Temperature	3448.00	
DIMSI6MEH	6kW Heat Pump High Temperature	3839.00	
DIMSI9MEH	9kW Heat Pump High Temperature	4230.00	
DIMSI11MEH	11kW Heat Pump High Temperature	4775.00	
<b>Three Phase Ground Source Heat Pumps</b>			
DIMSI17TE	17kW Heat Pump	6219.37	
DIMSI24TE	24kW Heat Pump	9833.62	
DIMSI30TE	30kW Heat Pump	10764.42	
DIMSIH50TE	50kW Heat Pump	14702.27	
<b>Single Phase Outdoor Air to Water Heat Pumps</b>			
DIMLA6Mi	6kW Inverter Heat Pump	2650.00	
DIMLA9Mi	9kW Inverter Heat Pump	3425.00	
DIMLA12Mi	12kW Inverter Heat Pump	4700.00	
DIMLA16Mi	16kW Inverter Heat Pump	5450.00	
DIMLA8PMS	8kW Heat Pump Medium Temperature	5950.00	
DIMLA14PMS	14kW Heat Pump Medium Temperature	7880.00	
DIMLA9MS	9kW Heat Pump	4718.95	
DIMLA11MS	11kW Heat Pump	5082.11	
DIMLA16MS	16kW Heat Pump	5882.11	
<b>Air Source Heat Pump Packs - Fixed Speed</b>			
<b>Pack 1 - 1 Heating Zone - Combined Buffer &amp; DHW</b>			
DPK1LA9MSA	ASHP with LA 9 MS with Combination 125ltr Cylinder & 75ltr Buffer	6050.00	
DPK1LA9MSB	ASHP with LA 9 MS with Combination 150ltr Cylinder & 75ltr Buffer	6050.00	
DPK1LA9MSC	ASHP with LA 9 MS with Combination 210ltr Cylinder & 75ltr Buffer	6050.00	
DPK1LA11MSA	ASHP with LA 11 MS with Combination 125ltr Cylinder & 75ltr Buffer	6450.00	
DPK1LA11MSB	ASHP with LA 11 MS with Combination 150ltr Cylinder & 75ltr Buffer	6450.00	

# Renewables & Sustainable Energy Products - HEAT PUMPS

KEYWORD DESCRIPTION PRICE £



**Dimplex Inverter Heat Pump**

DPK1LA11MSC	ASHP with LA 11 MS with Combination 210ltr Cylinder & 75ltr Buffer	<b>6450.00</b>
DPK1LA8PMSA	ASHP with LA 8 PMS with Combination 125ltr Cylinder & 75ltr Buffer	<b>7575.00</b>
DPK1LA8PMSB	ASHP with LA 8 PMS with Combination 150ltr Cylinder & 75ltr Buffer	<b>7575.00</b>
DPK1LA8PMSA	ASHP with LA 8 PMS with Combination 210ltr Cylinder & 75ltr Buffer	<b>7575.00</b>
DPK1LA14PMSA	ASHP with LA 14 PMS with Combination 125ltr Cylinder & 75ltr Buffer	<b>9680.00</b>
DPK1LA14PMSB	ASHP with LA 14 PMS Combination 150ltr Cylinder & 75ltr Buffer	<b>9680.00</b>
DPK1LA14PMSA	ASHP with LA 14 PMS Combination 210ltr Cylinder & 75ltr Buffer	<b>9680.00</b>

**Pack includes:**

Heat Pump, Controller & Cable, 2 Circulation Pumps, ECS Combined DHW Cylinder & Buffer With Immersion.

**Air-Eau Air Source Heat Pump Packs - Inverter Driven Pack 1 - 1 Heating Zone - Combined Buffer & DHW**

DP1LA6MI125	Pack 1 with LA 6 MI with Combination 125ltr Cylinder & 75ltr Buffer	<b>4513.07</b>
DP1LA6MI150	Pack 1 with LA 6 MI with Combination 150ltr Cylinder & 75ltr Buffer	<b>4563.07</b>
DP1LA6MI210	Pack 1 with LA 6 MI with Combination 210ltr Cylinder & 75ltr Buffer	<b>4613.07</b>
DP1LA9MI125	Pack 1 with LA 9 MI with Combination 125ltr Cylinder & 75ltr Buffer	<b>5288.07</b>
DP1LA9MI150	Pack 1 with LA 9 MI with Combination 150ltr Cylinder & 75ltr Buffer	<b>5338.07</b>
DP1LA9MI210	Pack 1 with LA 9 MI with Combination 210ltr Cylinder & 75ltr Buffer	<b>5388.07</b>
DP1LA12MI125	Pack 1 with LA 12 MI with Combination 125ltr Cylinder & 75ltr Buffer	<b>6563.07</b>
DP1LA12MI150	Pack 1 with LA 12 MI with Combination 150ltr Cylinder & 75ltr Buffer	<b>6613.07</b>
DP1LA12MI210	Pack 1 with LA 12 MI with Combination 210ltr Cylinder & 75ltr Buffer	<b>6663.07</b>
DP1LA16MI125	Pack 1 with LA 16 MI with Combination 125ltr Cylinder & 75ltr Buffer	<b>7373.07</b>
DP1LA16MI150	Pack 1 with LA 16 MI with Combination 150ltr Cylinder & 75ltr Buffer	<b>7423.07</b>
DP1LA16MI210	Pack 1 with LA 16 MI with Combination 210ltr Cylinder & 75ltr Buffer	<b>7473.07</b>

**Pack includes:**

Air-Eau Heat Pump, Controller & 15m Cable, ECS Combined DHW Cylinder & Buffer, MFK114 Isolation Valves With Filter, Taconova Flow Checker, HRST28 2 x 2 Port Valves & PRT1 Room Thermostat, NTC2 DHW Sensor

**Dimplex Heat Pump Accessories**

DG9067

DIM24787	KPV25 Compact Manifold	<b>334.82</b>
DIM24794	WWM25 Heating Circuit/Hot Water Mod	<b>172.29</b>
DIM24800	VTB25 Manifold Bar	<b>222.15</b>
DIM24886	MMH25 Heating Circuit & Mixing Valve	<b>358.12</b>
DIM24893	EBKPV Expansion Mod Manifold	<b>89.78</b>
D045379	Large Tac Flow Checker LA16M1	<b>240.00</b>
D045386	Control Pack PRT12 x 2 Port Valves	<b>146.38</b>
D045393	Isolation Valves LAM1	<b>225.00</b>
D044549	Horst PRT1 Wall Mounted Room Stat	<b>71.80</b>
D029379	Temperature Sensor DHW LAM1	<b>11.69</b>

KEYWORD DESCRIPTION PRICE £



**Glow-worm Clearly Heat Pump 5kW (Air to Water)**

## Glowworm Air Source Heat Pumps

DG9077

**Clearly Heat Pump Packs**

GWAWHP5	Clearly Heat Pump 5kW Pack	<b>2909.00</b>
GWAWHP7	Clearly Heat Pump 7kW Pack	<b>3999.00</b>
GWAWHP12	Clearly Heat Pump 12kW Pack	<b>4999.00</b>
GWAWHP14	Clearly Heat Pump 14kW Pack	<b>5999.00</b>

**Clearly Heat Pump Accessories**

GW20054986	Glycol Filling Pump	<b>176.00</b>
GW20054984	Antifreeze Test Kit	<b>75.00</b>

**Clearly Hybrid**

GWAWHP5HY	Clearly 5kW Hybrid Heat Pump Pack	<b>2999.00</b>
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When installing Clearly Hybrid additional Glowworm Ebus condensing boiler pack must be purchased separately



**Glow-worm Clearly Hybrid Pack (excludes Ebus Condensing Boiler)**

KEYWORD DESCRIPTION PRICE £



**Grant Aeron Heat Pump**



## Grant Heat Pumps

DG9091

**Air Source Heat Pumps - Aeron**

GHPAW65	6.5kW Air to Water Heat Pump	<b>4600.00</b>
GHPAW85	8.5kW Air to Water Heat Pump	<b>5200.00</b>
GHPAW11	11kW Air to Water Heat Pump	<b>5900.00</b>
GHPAW13	13kW Air to Water Heat Pump	<b>6100.00</b>

**Heat Pump Cylinders**

**Single Coil Indirect Duplex Stainless Steel**

GHPMONIND125	Monowave Single Coil 125ltr	<b>1240.00</b>
GHPMONIND150	Monowave Single Coil 150ltr	<b>1313.00</b>
GHPMONIND170	Monowave Single Coil 170ltr	<b>1446.00</b>
GHPMONIND200	Monowave Single Coil 200ltr	<b>1508.00</b>
GHPMONIND250	Monowave Single Coil 250ltr	<b>1757.00</b>
GHPMONIND300	Monowave Single Coil 300ltr	<b>1928.00</b>

**Twin Coil Indirect Duplex Stainless Steel**

GHPDUOIND170	DuoWave Solar Twin Coil 170ltr	<b>1500.00</b>
GHPDUOIND200	DuoWave Solar Twin Coil 200ltr	<b>1590.00</b>
GHPDUOIND250	DuoWave Solar Twin Coil 250ltr	<b>1840.00</b>
GHPDUOIND300	DuoWave Solar Twin Coil 300ltr	<b>1970.00</b>



**Grant MonoWave HP Cylinder**

KEYWORD DESCRIPTION PRICE £



Ideal Airtherm Heat Pump

## Ideal Heat Pumps

### Air Source Heat Pumps

Airtherm Air to Water Heat Pumps		DG9075
AIRTHERM45	Airtherm 4.5kW Heat Pump	<b>3880.00</b>
AIRTHERM90	Airtherm 9.0kW Heat Pump	<b>4410.00</b>
AIRTHERM12	Airtherm 12.0kW Heat Pump	<b>6410.00</b>

### Heat Pumps Accessories

**Thermstore Ideal Unvented Cylinders and Buffer Tanks**  
(Recommended for use with Ideal Airtherm Heat Pumps and Groundtherm Heat Pumps)

#### Thermstore Unvented Cylinders

i204829	150ltr Unvented Cylinder	<b>1008.00</b>
i204830	180ltr Unvented Cylinder	<b>1104.00</b>
i204831	210ltr Unvented Cylinder	<b>1180.00</b>

#### Thermstore Unvented Buffer Tanks

i204832	50ltr Unvented Buffer Tank	<b>492.00</b>
i204833	95ltr Unvented Buffer Tank	<b>577.20</b>
i204834	150ltr Unvented Buffer Tank	<b>669.60</b>

#### Thermstore Unvented Buffer Tanks & Cylinders

i204835	50ltr/150ltr Unvented Buffer/Cylinder	<b>1500.00</b>
i204836	95ltr/180ltr Unvented Buffer/Cylinder	<b>1680.00</b>
i204837	150ltr/210ltr Unvented Buffer/Cylinder	<b>1850.40</b>

KEYWORD DESCRIPTION PRICE £



Kingspan Aeromax Plus Heat Pump

## Kingspan Heat Pumps

### Air to Water Heat Pumps

KHP0041	4kW Aeromax Plus Heat Pump	<b>2570.00</b>
KHP0038	6kW Aeromax Plus Heat Pump	<b>2882.00</b>
KHP0039	8kW Aeromax Plus Heat Pump	<b>3257.00</b>
KHP0040	12kW Aeromax Plus Heat Pump	<b>4466.00</b>
KHP0042	15kW Aeromax Plus Heat Pump	<b>5160.00</b>

### Air Source Heat Pump Accessories

Air Source Heat Pump Accessories		DG9093
KHP0008	Aeromax Plus Advanced Programmable Controller	<b>290.00</b>
KHP0009	Aeromax Plus Remote Weather Sensor	<b>39.00</b>
KHP0011	Unit Guard Medium (Fits 4kW, 6kW & 8kW Units)	<b>561.00</b>
KHP0012	Unit Guard Large (Fits 12kW & 15kW Units)	<b>713.00</b>
KHP0013	Wallbrackets 90kg (Fits 4kW, 6kW & 8kW Units)	<b>54.00</b>
KHP0014	Wallbrackets 140kg (Fits 12kW & 15kW Units)	<b>62.00</b>
KHP0016	Condensate Tray for 4kW, 6kW & 8kW Units	<b>133.00</b>
KHP0017	Condensate Tray for 12kW & 15kW Units	<b>159.00</b>
KHP0043	Anti Vibration Pad	<b>3.00</b>
KHP0050	Aeromax Plus Filling Station	<b>861.14</b>
<b>Aeromax Plus Installation Packs</b>		<b>DG9093</b>
KHP0029	4, 6 & 8kW Installation Pack	<b>550.00</b>
KHP0030	12kW Installation Pack	<b>630.00</b>
KHP0026	15kW Installation Pack	<b>775.00</b>

#### Pack Contents:

2 x 750mm Flexible Hoses inc 90° Elbow Pre-insulated,  
1 x System Filter, W Plan Diverter Valve, Flush & Fill Ports,  
Anti Vibration Pads, Diagnostic Indicator, Flow Setter,  
Programmable Room Stat, 7 Day Hot Water Programmer,  
2 x Full Bore Isolating Valves with Lever Arm

KEYWORD DESCRIPTION PRICE £



Kingspan Aerocyl Heat Pump Cylinders

### Aeromax Plus System Antifreeze/Inhibitor

KHP0023	25 Litre Antifreeze	<b>120.00</b>
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### Aeromax Plus Heat Pump Packs

KHP6PK	4kW Heat Pump Pack	<b>3552.00</b>
<i>4kW Aeromax Plus Air Source Heat Pump, 4kW Installation Pack (KHP0029), 25ltr Antifreeze (KHP0023)</i>		
KHP6PK	6kW Heat Pump Pack	<b>3552.00</b>
<i>6kW Aeromax Plus Air Source Heat Pump, 6kW Installation Pack (KHP0029), 25ltr Antifreeze (KHP0023)</i>		
KHP8PK	8kW Heat Pump Pack	<b>4390.00</b>
<i>8kW Aeromax Plus Air Source Heat Pump, 8kW Installation Pack (KHP0029), 25ltr Antifreeze (KHP0023)</i>		
KHP12PK	12kW Heat Pump Pack	<b>5216.00</b>
<i>12kW Aeromax Plus Air Source Heat Pump, 12kW Installation Pack (KHP0030), 25ltr Antifreeze (KHP0023)</i>		
KHP15PK	15kW Heat Pump Pack	<b>6055.00</b>
<i>15kW Aeromax Plus Air Source Heat Pump, 15kW Installation Pack (KHP0026), 25ltr Antifreeze (KHP0023)</i>		

Just add your Aerocyl Cylinder to the list above

### Aerocyl Unvented Copper Hot Water Cylinders for Heat Pump & Solar Input

Aerocyl Unvented Copper Hot Water Cylinders for Heat Pump & Solar Input		DG9093
AAU150C	Single Coil 150 Heat Pump Only	<b>1375.00</b>
AAU180C	Single Coil 180 Heat Pump Only	<b>1425.00</b>
AAU210C	Single Coil 210 Heat Pump Only	<b>1453.33</b>
AAU250C	Single Coil 250 Heat Pump Only	<b>1575.00</b>
AAU300C	Single Coil 300 Heat Pump Only	<b>1700.00</b>
AAUS180C	Twin Coil 180 Heat Pump & Solar	<b>1558.33</b>
AAUS210C	Twin Coil 210 Heat Pump & Solar	<b>1586.67</b>
AAUS250C	Twin Coil 250 Heat Pump & Solar	<b>1708.33</b>
AAUS300C	Twin Coil 300 Heat Pump & Solar	<b>1816.67</b>

### Aerocyl Copper Buffer Stores for use with Air Source Heat Pumps - Foamed Models

AAVB50F	Copper Vented Buffer Store 50	<b>233.33</b>
AAVB95F	Copper Vented Buffer Store 95	<b>283.33</b>
AAVB150F	Copper Vented Buffer Store 150	<b>333.33</b>

# Renewables & Sustainable Energy Products - HEAT PUMPS



NIBE F2015 Air Source Heat Pump

## NIBE Heat Pumps

### Ground Source Heat Pumps

DG9050

#### Single Phase

NIBEF11455	F1145 - 5kW	665241	<b>5526.15</b>
NIBEF11458	F1145 - 8kW	665243	<b>6094.20</b>
NIBEF114512	F1145 - 12kW	665245	<b>6221.00</b>
NIBEF12455	F1245 - 5kW	665401	<b>6871.20</b>
NIBEF12458	F1245 - 8kW	665403	<b>7274.40</b>
NIBEF124512	F1245 - 12kW	665405	<b>7673.40</b>

#### Three Phase

NIBEF114515	F1145 - 15kW	665257	<b>7523.00</b>
NIBEF114517	F1145 - 17kW	665259	<b>8398.95</b>
NIBEF133022	F1330 - 22kW	065100	<b>10473.00</b>
NIBEF133030	F1330 - 30kW	065101	<b>11385.00</b>
NIBEF133040	F1330 - 40kW	065102	<b>12167.00</b>
NIBEF133060	F1330 - 60kW	065103	<b>14932.00</b>
NG7044	Soft Start for F1330 - 60kW	067044	<b>950.00</b>
NAMB30	AMB 30 - Air Collector for F1330	065046	<b>5470.00</b>

### Heat Pumps Outdoor Air Heating

DG9050

#### Single Phase 230v

NIBEF20156	F2015 - 6kW	064044	<b>4198.90</b>
NIBEF20158	F2015 - 8kW	064014	<b>4700.85</b>
NIBEF201511	F2015 - 11kW	064015	<b>5171.25</b>

#### Three Phase 400v

NIBEF202514	F2025 - 14kW	064019	<b>6300.00</b>
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NIBE F1145 Ground Source Heat Pump

## NIBE Air to Water Heat Pump Packs

### Pack 1

DG9051

Pack includes: Air/Water Heat Pump & Hot Water Cylinder

NPAC001A	6kW	F2015	<b>4900.00</b>
NPAC001B	8kW	F2015	<b>5300.00</b>
NPAC001C	11kW	F2015	<b>5700.00</b>

### Pack 2

Pack includes: Air/Water Heat Pump, Control Module (SM05), Hot Water Cylinder & 3 Port Valve

NPAC002A	6kW	F2015	<b>4500.00</b>
NPAC002B	8kW	F2015	<b>4800.00</b>
NPAC002C	11kW	F2015	<b>5200.00</b>

### Pack 3

Pack includes: Air/Water Heat Pump, Control Module (SM010), Hot Water Cylinder, 3 Port Valve, Immersion Heater & Immersion Heater Thermostatic Head also includes HR10

NPAC003A	6kW	F2015	<b>5100.00</b>
NPAC003B	8kW	F2015	<b>5600.00</b>
NPAC003C	11kW	F2015	<b>6000.00</b>

### Pack 4

Pack includes: Air/Water Heat Pump & Control Module (SM05)

NPAC004A	6kW	F2015	<b>3250.00</b>
NPAC004B	8kW	F2015	<b>3600.00</b>
NPAC004C	11kW	F2015	<b>4050.00</b>

### Pack 5

Pack includes: Air/Water Heat Pump & Control Module (SM010)

NPAC005A	6kW	F2015	<b>3550.00</b>
NPAC005B	8kW	F2015	<b>3900.00</b>
NPAC005C	11kW	F2015	<b>4300.00</b>

### Pack 6

Pack includes: Air/Water Heat Pump, Control Module (SM010), Water Heater, 3 Port Valve, Immersion Heater & Immersion Heater Thermostatic Head also includes HR10

NPAC006A	6kW	F2015	<b>6100.00</b>
NPAC006B	8kW	F2015	<b>6600.00</b>
NPAC006C	11kW	F2015	<b>7000.00</b>

## Exhaust Air Heat Pumps

DG9050

#### Single Phase

NIBEF205	F205 Single Phase 230v	89890	<b>4252.50</b>
NIBEF370	F370 Single Phase 230v	66041	<b>5064.15</b>
NIBEF470	F470 Single Phase 230v	66053	<b>6060.60</b>

## NIBE Heat Pump Accessories

### Outdoor Air Collector AMB 30

DG9651

N67104	BCU 30	<b>147.00</b>
N67105	Defrost 30	<b>693.00</b>
N67106	SVH 40	<b>552.30</b>
N67107	SVH 50	<b>850.50</b>
N67108	SVH 65	<b>1223.25</b>
N67113	SVH 32	<b>407.40</b>

### Air to Water

DG9051

N89638	Control Module SM010 89638	<b>741.30</b>
N418469	Modular Cable 418469	<b>109.20</b>
N69019	VVM300CUUK 69019	<b>2998.80</b>
N89686	KVT 10 Condensate Drain	<b>185.00</b>
N67100	Control Module SM05 (Lite) 67100	<b>302.40</b>
N87730	VPB200 (Slim) 87730	<b>1365.00</b>

### Exhaust Air

DG9051

N89599	Air Supply Vent Kit White	<b>30.35</b>
NTL98F	Air Supply Vent Kit Terracotta	<b>30.36</b>
N089198	Air Supply Vent Kit 90db	<b>77.19</b>
N089188	Module Lube	<b>5.25</b>
N14990	Storm Protection	<b>15.75</b>
N89200	Pollen Filter	<b>5.25</b>
N89201	Environment Filter	<b>5.25</b>
N089195	Hightening Console	<b>154.35</b>

## Ground Source

DG9051

### Geothermal Probe

N648001	PEM 40mm x 2.4mm Pipe 2 x 50m	<b>165.55</b>
N648004	PEM 40mm x 2.4mm Pipe 2 x 80m	<b>264.85</b>
N648006	PEM 40mm x 2.4mm Pipe 2 x 100m	<b>331.40</b>
N648011	PEM 40mm x 2.4mm Pipe 2 x 150m	<b>496.55</b>

### Top Parts for Geothermal Probe

N659917	Rubber Hood 138-168mm	<b>116.52</b>
N659880	Round Bottom Weight	<b>58.48</b>

### Geothermal Ground Collector

N642819	PEM 40mm x 2.4mm Pipe - 250m	<b>384.40</b>
N641519	PEM 40mm x 2.4mm Pipe - 300m	<b>461.40</b>
N642919	PEM 40mm x 2.4mm Pipe - 400m	<b>615.05</b>
N18230	Collector Spool	<b>1386.72</b>

### 40mm Compression Fittings

N511040E	Male Adaptor 40mm x 1/4"	<b>9.95</b>
N601040E	Female Adaptor 40mm x 11/4"	<b>10.54</b>
N601040F	Female Adaptor 40mm x 11/2"	<b>10.54</b>
N5100400	Coupling 40mm x 40mm	<b>11.40</b>
N5140400	90° Tee 40 x 40 x 40mm	<b>20.97</b>
N5130400	90° Elbow 40 x 40mm	<b>15.14</b>
N5210400	End Cap 40mm	<b>11.50</b>
NT305040E	Valve with Quick Joint	<b>20.65</b>
N951660	Specialist Antifreeze 25ltr	<b>92.00</b>
N951665	Brine Filling Machine	<b>738.30</b>

### New Generation Ground Source Heat Pump Cylinders

N88516	VPB 200	<b>1224.30</b>
N83020	VPB 300	<b>1666.35</b>
N83221	VPB 500	<b>2552.55</b>
N83230	VPB 750 (No G3)	<b>2832.90</b>
N83240	VPB 1000 (No G3)	<b>4109.70</b>
N83021	VPBS (Solar Cylinder for F1145)	<b>2098.95</b>

### New Generation Accessories

DG9051

N67060	AXC 40 Connection Box	<b>145.00</b>
N67061	ESC 40 Extra Shunt Group	<b>315.00</b>
N67062	Pool 40	<b>210.00</b>
N67063	PCS 44 Passive Cooling 4" Pipe	<b>460.00</b>
N67064	RMU 40 Communication Module	<b>99.75</b>
N67065	RTS 40 Room Temperature Sensor	<b>10.00</b>
N67011	FLM Exhaust Air Module	<b>1023.75</b>

### Heat Pump Double Jacket

#### Accumulation Pump

DG9051

N88712	VPA 300/200	<b>1544.55</b>
N88662	VPA 450/300	<b>2277.87</b>
N87720	VPA 300/450 Solar Coil c/w G3 Kit	<b>2614.76</b>

### Buffer Tanks

DG9051

N88207	UKV 100	<b>189.53</b>
N80300	UKV 200	<b>431.24</b>
N80301	UKV 300	<b>593.67</b>
N80302	UKV 500	<b>715.47</b>

### Heat Exchanger PLEX

DG9051

N75315	310 - 20 11.5kW	<b>355.00</b>
N75316	310 - 40 27kW	<b>620.00</b>
N75317	310 - 60 43kW	<b>706.00</b>
N75318	310 - 80 60kW	<b>842.10</b>
N75319	322 - 30 81kW	<b>1217.00</b>
N75320	322 - 40 110kW	<b>1374.00</b>
N75321	322 - 60 175kW	<b>1611.75</b>

## Electric Boilers

### Single Phase

N069025	ELK 5kW 230v N	<b>588.00</b>
N069026	ELK 8kW 230v	<b>726.60</b>

### Three Phase

N069501	ELK 213 - 13kW	<b>764.40</b>
N69022	ELK 15 - 15kW	<b>988.05</b>
N69320	EP 26 - 26kW	<b>2206.00</b>
N69321	EP 42 - 42kW	<b>2577.00</b>

See overleaf for NIBE Heat Pump Accessories

A new generation of heat pumps  
DESIGNED FOR EARTH






OUR MOST ADVANCED  
HEAT PUMP.  
SIMPLER THAN EVER.



NIBE Energy Systems Ltd Tel 0845 095 1200 [www.nibe.co.uk](http://www.nibe.co.uk)

# Renewables & Sustainable Energy Products - HEAT PUMPS

KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
								
<b>Heat Pump Accessories</b>			<b>Vaillant Ground Source Heat Pumps</b>			<b>Vokera Air to Water Heat Pumps</b>		
		DG9051			DG9024			
N89152	VST11 3-Way Control Valve 15kW	<b>120.75</b>	VAGE06EXC	Geotherm Exclusive 6kW	<b>6050.00</b>			
N89388	VST20 3-Way Control Valve 30kW	<b>222.60</b>	VAGE08EXC	Geotherm Exclusive 8kW	<b>6250.00</b>			
N089375	Expansion Card 1	<b>469.88</b>	VAGE010EXC	Geotherm Exclusive 10kW	<b>6470.00</b>			
N089376	Expansion Card 2	<b>469.88</b>	VAGE06	Geotherm 6kW	<b>5050.00</b>			
N067042	Expansion Card 11 - 067042	<b>469.88</b>	VAGE08	Geotherm 8kW	<b>5100.00</b>			
N067043	Expansion Card 12 - 067043	<b>469.88</b>	VAGE010	Geotherm 10kW	<b>5350.00</b>			
N089304	FLM 40 Brackets	<b>105.26</b>	<b>Ground Source Heat Pumps 3ph 415v</b>					
N089368	Brine Filling Unit 12kW	<b>165.90</b>	VAGE014	Geotherm 14kW	<b>6050.00</b>			
N89971	Brine Filling Unit 30kW	<b>252.00</b>	VAGE017	Geotherm 17kW	<b>6550.00</b>			
N89317	ESV20 Extra Shunt Group	<b>385.43</b>	VAGE022	Geotherm 22kW	<b>8380.00</b>			
N22077	Threaded Adaptor Flanges	<b>110.83</b>	VAGE030	Geotherm 30kW	<b>8700.00</b>			
N18286	Thermostat Limiter	<b>132.56</b>	VAGE038	Geotherm 38kW	<b>9200.00</b>			
N18084	IU34 3kW Immersion Heater - 218009	<b>78.79</b>	VAGE044	Geotherm 44kW	<b>10700.00</b>			
N18088	IU39 6kW Immersion Heater	<b>85.75</b>	<b>Ground Source Heat Pumps Accessories</b>					
N18090	IU311 9kW 3 Phase Immersion Heater	<b>69.69</b>	VA308350	Buffer Tank 300 Litres	<b>530.00</b>			
N18893	Junction Box K11	<b>123.38</b>	VA308351	Buffer Tank 500 Litres	<b>690.00</b>			
N418741	STYR 2002 Circuit Board	<b>39.06</b>	VA308352	Buffer Tank 750 Litres	<b>850.00</b>			
N418366	RT 10 Room Thermostat	<b>69.99</b>	VA307095	Grd Loop Brine 8.25ltr c/w 10ltr Canister	<b>57.00</b>			
N18433	RG 10 Room Sensor	<b>30.25</b>	VA307094	Grd Loop Brine 8.25ltr c/w 25ltr Canister	<b>57.00</b>			
N67001	RE 10	<b>69.70</b>	VA307096	Grd Loop Brine 30ltr	<b>155.00</b>			
N418380	Thermostat & Thermal Cutout	<b>123.27</b>	VA306782	Mixer Module VR60	<b>108.12</b>			
N67015	Pool 11	<b>240.14</b>	VA306784	Remote Control VR90	<b>82.16</b>			
N64006	Pool 20	<b>216.97</b>	<b>Air to Air</b>					DG9024
N18451	Power Selector Switch	<b>58.17</b>	<b>ClimaVair Exclusive High Wall Mount Mono Split System</b>					
N89423	HR 10 Relay Module	<b>160.52</b>	VA2025NW	2.5kW Set inc Pipework	<b>635.00</b>			
N67006	RCU 11 Communications Module	<b>913.87</b>	VA2035NW	3.5kW Set inc Pipework	<b>725.00</b>			
			<b>ClimaVair Plus High Wall Mount Mono Split System</b>					
			VA2025WN	2.5kW Set inc Pipework	<b>551.00</b>			
			VA2035WN	3.5kW Set inc Pipework	<b>595.00</b>			
			VA2050WN	5kW Set inc Pipework	<b>879.00</b>			
			VA2065WN	6.5kW Set inc Pipework	<b>978.00</b>			
			<b>ClimaVair Plus High Wall Mount Multi Twin Split System</b>					
			VA2060W2N	6kW Set plus Twin Set	<b>1095.00</b>			
			<b>ClimaVair Plus V-Multi Split System</b>					
			VAM2110W4N	10kW plus V-Multi Split	<b>2395.00</b>			

## PTS Renewable Training

### Piper Assessment

A partnership has formed between PTS and Piper Assessment Training.

The range of Renewable courses held at **PTS Aylesford** are all designed to help businesses become registered with MCS. Covering Solar Photovoltaic, Solar Thermal and Heat Pumps with further technologies evolving.

These courses are offered alongside a suite of other qualifications such as Health and Safety, unvented hot water and Energy Efficiency.

For product training bookings or information, please contact Piper Assessment Training.

W: [www.piperassessment.co.uk](http://www.piperassessment.co.uk)

T: 01795 410 055

E: [info@piperassessment.co.uk](mailto:info@piperassessment.co.uk)

For MCS Seminars (how to become MCS approved), please contact QMSA:

W: [www.qmsa.biz](http://www.qmsa.biz)

T: 09000 342777

E: [info@qmsa.biz](mailto:info@qmsa.biz)



### PPL Training

PPL is one of the largest specialised renewable energy training providers in the UK. They have training locations throughout the UK, offering a local choice in high quality training across a variety of renewable, electrical, gas and plumbing technologies.

Renewable courses include:

- MCS Made Simple
- Solar Thermal Hot Water
- Heat Pumps
- Solar PV
- Installation of PV Panels

For more details of Sustainability Training courses run through PPL use the contact details below:

W: [www.ppltraining.co.uk](http://www.ppltraining.co.uk)

T: 0845 2600 967

E: [info@ppltraining.co.uk](mailto:info@ppltraining.co.uk)



KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £	KEYWORD	DESCRIPTION	PRICE £
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Greenstore Ground Source Heat Pump

## Worcester Heat Pumps

### Greenstore Combi Ground Source Range DG9040

GS6COMBI	Greenstore 6 Electric Combi. Output to Central Heating 6kW Height 1800mm x Width 600mm x Depth 600mm - Weight 213kg	<b>8513.33</b>
GS7COMBI	Greenstore 7 Electric Combi. Output to Central Heating 7kW Height 1800mm x Width 600mm x Depth 600mm - Weight 217kg	<b>8986.98</b>
GS9COMBI	Greenstore 9 Electric Combi. Output to Central Heating 9kW Height 1800mm x Width 600mm x Depth 600mm - Weight 229kg	<b>9460.62</b>
GS11COMBI	Greenstore 11 Electric Combi. Output to Central Heating 11kW Height 1800mm x Width 600mm x Depth 600mm - Weight 263kg	<b>10169.33</b>

### Greenstore System Ground Source Range DG9040

GS6SYSTEM	Greenstore 6 Electric System. Output to Central Heating 6kW Height 1520mm x Width 600mm x Depth 600mm - Weight 149kg	<b>8513.33</b>
GS7SYSTEM	Greenstore 7 Electric System. Output to Central Heating 7kW Height 1520mm x Width 600mm x Depth 600mm - Weight 153kg	<b>8986.98</b>
GS9SYSTEM	Greenstore 9 Electric System. Output to Central Heating 9kW Height 1520mm x Width 600mm x Depth 600mm - Weight 155kg	<b>9460.62</b>
GS11SYSTEM	Greenstore 11 Electric System. Output to Central Heating 11kW Height 1520mm x Width 600mm x Depth 600mm - Weight 172kg	<b>8986.98</b>



Greensource Air to Air Heat Pump



Greensource Air to Water Heat Pump

### Greensource Accessories

W7716192420	Filling Pump Unit	<b>1074.00</b>
W7716192421	Filling Pump Hose Kit	<b>100.00</b>
W7716192422	Air Compressor	<b>330.00</b>
W7716181103	Compressor Connection Kit	<b>66.00</b>

### Greensource Collector

W7716192419	Compact Collector 1800mm x 40mm x 2000mm - Weight 12kg	<b>238.60</b>
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### Greensource Cylinders for use with Greensource System Heat Pumps c/w Unvented Kit

GS280CYL	280 Litre Cylinder	<b>3013.79</b>
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### Greensource Air to Air Range DG9040

GS6AIR2AIR	6kW Air to Air Heat Pump Kit	<b>1791.08</b>
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### Greensource Air to Water Range

GS6AIR	6kW Air to Water Heat Pump Kit	<b>9643.45</b>
GS7AIR	7kW Air to Water Heat Pump Kit	<b>10046.54</b>
GS95AIR	9.5kW Air to Water Heat Pump Kit	<b>10851.73</b>

### Heat Pump Thermal Store

(available for both Greenstore and Greensource Heat Pumps)

W7716192418	100 Litre Thermal Store	<b>680.65</b>
W7716192638	120 Litre Thermal Store	<b>757.83</b>



Glow-worm MVHR

## Mechanical Heat Recovery & Ventilation System DG9064

### Clearly Heat Recovery Packs

GWHRD275	Atmosorb HRD 275	<b>1065.00</b>
GWHRD350	Atmosorb HRD 350	<b>1200.00</b>

### Clearly Heat Recovery Accessories

GW20064713	Atmosorb Bypass Unit	<b>115.00</b>
GW20064720	F6 High Efficiency Filter (Set of 2)	<b>44.00</b>
GW20064721	F6 High Efficiency Filter (For Bypass where fitted)	<b>21.00</b>



Vaillant MVHR

## Mechanical Heat Recovery & Ventilation System DG9023

VA20064653	recoVAIR VAR275	<b>1240.00</b>
VA20064652	recoVAIR VAR350	<b>1340.00</b>
VA20026061	High Efficiency Filter Set	<b>47.99</b>
VA20026118	High Efficiency Bypass Filter Set	<b>21.00</b>

KEYWORD DESCRIPTION PRICE £



ITHO Advance MVHR

## Heat Recovery

IT1260000	Advance MVHR	<b>695.00</b>
IT126001	Duct Connection Kit	<b>FOC</b>
IT1130020	Shower Heat Recovery Unit 60	<b>769.00</b>
IT1130100	Shower Heat Recovery Unit 50	<b>615.00</b>

DG9056		
<b>695.00</b>		
<b>FOC</b>		
<b>769.00</b>		
<b>615.00</b>		



## Verplas ITHO Ducting

S204CL	System204 Flat Channel Clip	<b>0.63</b>
S204CON	System204 Connector	<b>2.19</b>
S204EB125	System204 Rotating Elbow Bend 125mm	<b>4.43</b>
S204R20	System204 Flat Channel 2mtrs	<b>11.18</b>
RPSC125	125mm Round Pipe Clip	<b>1.67</b>
S204R15	System204 Flat Channel 1.5mtrs	<b>8.37</b>
RP90B125	125mm 90° Elbow Bend	<b>4.94</b>
S204V90	System204 90° Vertical Bend	<b>3.70</b>
DVMS125	125mm White Powder Coated Metal Ceiling Air Supply Valve	<b>8.35</b>
RPC125	125mm Round Connector	<b>1.79</b>
S204T	System204 T Piece	<b>7.01</b>
DVME125	125mm White Powder Coated Metal Ceiling Air Extract Valve	<b>8.35</b>
S204RRA	System204 125mm Round to Rectangular Horizontal Adaptor	<b>4.33</b>
RP20X125	125mm Round Pipe 2mtrs	<b>11.20</b>
S204H90	System204 90° Horizontal Bend	<b>5.18</b>
RPT125	125mm T Piece	<b>7.08</b>
WDC125	125mm Worm Drive Clip	<b>0.88</b>
RP15X125	125mm Round Pipe 1.5mtrs	<b>8.37</b>
S204DABA	System204 Double Airbrick Adaptor	<b>6.21</b>
DVSR125	125mm Ceiling Vent Diffuser with Retaining Ring	<b>8.35</b>
S204FW	System204 Firewrap	<b>28.00</b>
F10X125	Flexible Aluminium Hose 127mm Diameter 10mtrs	<b>10.82</b>
S204FC	System204 Rectangular Firecuff	<b>34.78</b>
S204F05	System204 Flexible Bend	<b>6.52</b>
S204R20INS	204 x 60 x 2mtrs Insulated Flat Channel	<b>27.88</b>
FG125W	Louved Grille 125mm Spigot	<b>1.55</b>
RP20X125INS	125mm (5") Insulated Round Pipe 2mtrs	<b>28.21</b>
RPT125INS	125mm Round T Piece	<b>15.04</b>
S204FWS	System204 Firewrap Sleeve	<b>13.50</b>
S204ABGSG	System204 Airbrick Grille	<b>2.30</b>
RFCG125	125mm Round Fixed Ceiling	<b>3.30</b>
RP90B125INS	125mm (5") Dia Insulated 90° Elbow Bend	<b>11.58</b>
S204TINS	S204 T Piece Ufoil Insulated	<b>14.33</b>
FG125T	125mm Fixed Grille	<b>1.55</b>
S204ABT	S204 Horizontal Louverd	<b>3.06</b>

DG8039

KEYWORD DESCRIPTION PRICE £



Polypipe HR01W-F

## Ventilation

### Poly Domus MVHR

PDHR01W	MVHR - Wall Mounted	<b>842.70</b>
PDHR01L	MVHR - Loft Mounted	<b>842.70</b>
PDHR01WB	MVHR - Wall Mounted & Bypass	<b>1036.15</b>
PDHR01LB	MVHR - Loft Mounted & Bypass	<b>1036.15</b>
PDHR01P	PIR Sensor	<b>87.64</b>
PDHR01H	Humidity Sensor	<b>87.64</b>
PDHR01M	System Monitor	<b>71.47</b>
PDHR01FG4	Spare Filter - G4	<b>44.94</b>
PDHR01FG2	Spare Filter - G2	<b>28.09</b>

DG9053



Polypipe HR02L-F



Polypipe HR03L-F

## Radial Duct System Additional HR Packs

RDHR2	HR02LB Appliance - Loft with Summer Bypass Pack	<b>2500.00</b>
RDHR3	HR01L Appliance - Loft Pack	<b>2300.00</b>
RDHR5	HR03L Appliance - Loft Pack	<b>2750.00</b>
RDHR6	HR03LB Appliance - Loft with Summer Bypass Pack	<b>2750.00</b>

DG8039

Biomass is a generic term for wood pellet, wood chip or bio-oil powered heating and CHP systems. Biomass is a renewable, low carbon fuel that is already widely available throughout the UK. Its production and use also brings additional environmental and social benefits.

Biomass is a sustainable fuel that if correctly managed can deliver significant reduction in net carbon emissions when compared with fossil fuels. Biomass is ideal for properties where mains gas is not available.

KEYWORD	DESCRIPTION	PRICE £
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Baxi Bioflo (Granite)

KEYWORD	DESCRIPTION	PRICE £
<b>Baxi Bioflo 12kW HE Boilers</b>		<b>DG9068</b>
<b>Approved for use in smokeless zones</b>		
BIOFLO12G	Baxi Bioflo (Granite)	<b>7125.00</b>
BIOFLO12P	Baxi Bioflo (Pearl)	<b>7125.00</b>
720338501	650Kg Capacity Pellet Storage Bin	<b>235.00</b>

KEYWORD	DESCRIPTION	PRICE £
<b>Baxi Multiheat</b>		
MULTIHEAT15	Multiheat 1.5 Biomass 15kW	<b>4904.41</b>
MULTIHEAT25	Multiheat 2.5 Biomass 25kW	<b>5750.00</b>
MULTIHEAT40	Multiheat 4.0 Biomass 43kW	<b>6764.70</b>

KEYWORD	DESCRIPTION	PRICE £
<b>Baxi Solo Innova Log Burning Biomass Boilers</b>		
SOLOINN20	Solo Innova 20 Log Boiler 20kW	<b>3822.05</b>
SOLOINN30	Solo Innova 30 Log Boiler 32kW	<b>4278.68</b>
SOLOINN50	Solo Innova 50 Log Boiler 46kW	<b>5259.55</b>

KEYWORD	DESCRIPTION	PRICE £
<b>Baxi Storage Tanks for use with Baxi Solo Innova Log Boilers</b>		
STORTANK600	Storage Tank 600ltr 5131044	<b>692.46</b>
STORTANK800	Storage Tank 800ltr 5131045	<b>818.13</b>

KEYWORD	DESCRIPTION	PRICE £
<b>Accessories</b>		
5132052	Clean Brush for Hand Drill	<b>25.88</b>
5132051	Pumped Blending Valve 70°C	<b>426.48</b>
5132054	Thermometer 0 - 120°	<b>18.00</b>
5132050	Thermostatic Valve	<b>129.41</b>



Baxi Multiheat

KEYWORD	DESCRIPTION	PRICE £
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Spire Wood Pellet Boiler

KEYWORD	DESCRIPTION	PRICE £
<b>Wood Pellet Boilers</b>		
GWPS626	Spira Wood Pellet Boiler 6-26kW	<b>7999.00</b>
GWPS936	Spira Wood Pellet Boiler 9-36kW	<b>8999.00</b>

KEYWORD	DESCRIPTION	PRICE £
<b>Wood Pellet Boilers Black System Components</b>		
GWPAP	Anchor Plate/Chemflex Adaptor	<b>76.00</b>
GWPCA	Black Flue to Chemflex Adaptor	<b>32.08</b>
GWPEXT1500	1500mm Extension	<b>154.00</b>
GWPEXT1000	1000mm Extension	<b>92.00</b>
GWPEXT500	500mm Extension	<b>60.00</b>
GWPEXT333	333mm Extension	<b>52.00</b>
GWPADJ250	Adjustable Pipe 75-250mm	<b>68.00</b>
GWPIP	Inspection Plate	<b>140.00</b>
GWP30	30° Bend	<b>80.00</b>
GWP45	45° Bend	<b>80.00</b>
GWPWS	Wall Support Side Plate	<b>36.00</b>
GWPTP	Intermediate Top Plate	<b>66.00</b>
GWPRC	Rain Cap	<b>58.00</b>
GWPPF	Firestop Plate 2 Pieces	<b>40.00</b>
GWPPS	Support Plate 2 Pieces	<b>60.00</b>
GWPRS	Roof Support Band Stainless Steel	<b>28.00</b>
GWPGB	Guy Wire Support	<b>18.00</b>
GWPPWB50	Wall Bracket 50mm	<b>12.00</b>
GWPPWB300	Wall Bracket 300mm	<b>18.00</b>
GWPUF200	Uni Flash 80-200mm	<b>20.00</b>
GWPCS	Storm Collar Stainless Steel	<b>16.00</b>

KEYWORD	DESCRIPTION	PRICE £
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Windhagen Biowin Exclusiv

KEYWORD	DESCRIPTION	PRICE £
<b>Biomass Boilers</b>		
DG9025		
BWEX10HF	Biowin Exclusiv 10kW Hand Feed	<b>8905.85</b>
BWEX15HF	Biowin Exclusiv 15kW Hand Feed	<b>8971.74</b>
BWEX21HF	Biowin Exclusiv 21kW Hand Feed	<b>9364.98</b>
BWEX26HF	Biowin Exclusiv 26kW Hand Feed	<b>9501.46</b>
BWEX10AF	Biowin Exclusiv 10kW Auto Feed	<b>10089.95</b>
BWEX15AF	Biowin Exclusiv 15kW Auto Feed	<b>10156.78</b>
BWEX21AF	Biowin Exclusiv 21kW Auto Feed	<b>10550.01</b>
BWEX26AF	Biowin Exclusiv 26kW Auto Feed	<b>10686.50</b>
FWKL9HF	Firewin Klassik 9kW Hand Feed	<b>7813.21</b>
FWKL12HF	Firewin Klassik 12kW Hand Feed	<b>8024.05</b>
FWPR9AF	Firewin Premium 9kW Auto Feed	<b>8432.55</b>
FWPR12AF	Firewin Premium 12kW Auto Feed	<b>8666.93</b>
FWEX9MFAC	Firewin Exclusiv 9kW Manual Feed Auto Clean	<b>8734.70</b>
FWEX12MFAC	Firewin Exclusiv 12kW Manual Feed Auto Clean	<b>8932.35</b>
FWEX9AFAC	Firewin Exclusiv 9kW Auto Feed Auto Clean	<b>9281.56</b>
FWEX12AFAC	Firewin Exclusiv 12kW Auto Feed Auto Clean	<b>9546.06</b>
VWEX12HFAC	Variowin Exclusiv 12kW Hand Feed Auto Clean	<b>7499.78</b>
VWEX12AFAC	Variowin Exclusiv 12kW Auto Feed Auto Clean	<b>8216.75</b>
<b>Biomass Accessories</b>		
UABW	VA Control For UK S Plan	<b>183.60</b>
UAFW	VA Control For UK S FW	<b>466.01</b>
UAVW	VA Control For UK S VW	<b>466.01</b>
BWRD	Rad Circuit & DHW	<b>1875.91</b>
BW2RD	2 Rad Circuit & DHW	<b>2690.10</b>
BWRFD	Rad & UFH & DHW	<b>2660.93</b>
SKE024	Low Energy Pump Set Upgrade	<b>149.65</b>
UAMLFWRD	System Boiler Kit Weather Comp & DHW	<b>1334.70</b>
FW2RD	System Kit Weather Comp 2 Rad & DHW	<b>2803.99</b>
FWRFD	System Kit Weather Comp Rad UFH & DHW	<b>2877.40</b>
SBT261	Steel Prefabricated Hopper	<b>2737.20</b>
BIOTOP	Biotop All Weather External Hopper	<b>2415.77</b>
PMXSET	Boiler & Hopper Integrated Kit	<b>951.07</b>
PMX013	Pellet Hose 25m	<b>203.32</b>

From the simple water butt to sophisticated rain water storage systems to collect rainwater for garden irrigation or domestic water use, water conservation and management is now available. Enhanced Building Regulations for new build are targeting greywater water management systems to reduce consumption.

**Rainwater Harvesting** is the collection of water from roofs for storing in a holding tank. The collected water can be either pumped to a header tank to then supply non potable appliances as in a gravity system

or directly to the non potable applications as in a direct system. The rainwater accumulated can be used to replace mains water where not for human consumption such as toilets, urinals, washing machines. Rainwater harvesting systems are best suited to new build applications where the system can be designed into the property.

**Greywater** refers to all household waste water other than waste water from the toilet (blackwater). Greywater from baths, showers and washbasins is

less contaminated than that from the kitchen. Domestic reuse systems collect greywater and store it before reusing it to flush the toilet. Systems for flushing the toilet can save around a third of daily household water demand. The most basic systems simply divert cooled and untreated bath water to irrigate the garden.

PTS can offer a range of water management systems from the simple water butt to underground rain water harvesting systems.

KEYWORD DESCRIPTION PRICE £



## Rainwater Harvesting DG7011

Garden		
AG16407	Garden Package 2000ltr	<b>2926.00</b>
AG16408	Garden Package 3000ltr	<b>3486.00</b>
AG164010	Garden Package 4000ltr	<b>3766.00</b>
Pack Includes:		
● PE Tank with integrated garden filter, calmed inlet, overflow, turret and lid		
● Varipress 1100 including water plug and pipe		
Simplex		
AG13406	Simplex Package 2000ltr	<b>3766.00</b>
AG13407	Simplex Package 3000ltr	<b>3906.00</b>
AG13408	Simplex Package 4000ltr	<b>4326.00</b>
Eco-Compac		
AG13430	Eco-Compac Package 2000ltr	<b>4150.00</b>
AG13431	Eco-Compac Package 3000ltr	<b>4746.00</b>
AG13432	Eco-Compac Package 4000ltr	<b>5075.00</b>
● PE Tank with integrated filter, calmed inlet, overflow, turret and lid		
● Rainwater harvesting control and booster system		
● Low energy consuming 24 volt variable speed pump		
● No mechanical parts in the underground tank		
● Supplied in a compact housing ready to 'plug and play'		
● Fully certificated with WRAS Product Approval and the only system of its kind to hold this certification		



AQUALITY Eco-Compact Rainwater Harvesting System



KEYWORD DESCRIPTION PRICE £



## Rainwater Harvesting DG7011

Integrated Rainwater Harvesting Systems		
Envireau Gravity System		
ENVG060KSW	PE Gravity System for 60m <sup>2</sup> roof	<b>2697.65</b>
ENVG100KSW	PE Gravity System for 100m <sup>2</sup> roof	<b>2714.12</b>
ENVG150KSW	PE Gravity System for 150m <sup>2</sup> roof	<b>3027.06</b>
ENVG200KSW	PE Gravity System for 200m <sup>2</sup> roof	<b>3147.06</b>
HT050	Header Tank for Gravity System	<b>229.41</b>
Envireau Direct Feed System		
ENVD060KSW	PE Direct Feed System for 60m <sup>2</sup> roof	<b>2697.65</b>
ENVD100KSW	PE Direct Feed System for 100m <sup>2</sup> roof	<b>2714.12</b>
ENVD150KSW	PE Direct Feed System for 150m <sup>2</sup> roof	<b>3027.06</b>
ENVD200KSW	PE Direct Feed System for 200m <sup>2</sup> roof	<b>3147.06</b>
Garden		
Underground Waterbutt - Raintrap complete with Pump & Leaf Filter		
RT2800	GRP External Use 2800 litres	<b>1934.20</b>
RT3800	GRP External Use 3800 litres	<b>2205.90</b>
RT4600	GRP External Use 4600 litres	<b>2401.60</b>
Above Ground Waterbutts - with Lid, Stand, Diverter & Trap		
RS100	PE 100 Litres (Qty of 10)	<b>588.50</b>
RS190P3	PE 190 Litres (Qty of 10)	<b>838.95</b>
RS200P5	PE 200 Litres (Qty of 10)	<b>873.86</b>
RS333CR	PE 333 Litres	<b>267.66</b>
RW700GR	PE 700 Litres Green	<b>471.09</b>
RW700GT	PE 700 Litres Granite	<b>471.09</b>
RW700SS	PE 700 Litres Sandstone	<b>529.97</b>
RW900GR	PE 900 Litres	<b>594.21</b>

Key: PE = Polythene GRP = Glass Reinforced Plastic



Envireau Rainwater Harvesting

KEYWORD DESCRIPTION PRICE £



## Greywater Recycling DG1525

Ecoplay In-Wall Greywater Systems		
ECOB1121	Ecoplay Greywater System 1-2 Floors/ 1WC	<b>4822.97</b>
ECOB1222	Ecoplay Greywater System 1-2 Floors/ 2WCs	<b>5754.66</b>
ECOB22P	Ecoplay Greywater System 2 Floors/ 2WCs (inc Pump)	<b>5754.66</b>



Ecoplay Greywater System

# What's your Ideal?

## The Logic+ range by Ideal

Everything about Ideal's range of high efficiency Logic+ combi boilers has been designed around the needs of the installer.

The flagship models in the high efficiency range, the Logic and Logic+ are easy to site, quick to install and simple to service, which combined with industry leading parts and labour warranties, make them the perfect choice for domestic installations.



Visit our website for more information:  
[www.idealheating.com](http://www.idealheating.com)

