THE RENEWABLE ENERGY SPECIALISTS

ONE PLANETS CONSULTANTS LTD

Product Information – 16kW Low Temperature Ground Source Heat Pumps (SIK ME)

Dimplex

Integrated Ground Source Heat Pump

The SIK 16 ME fully integrated ground source heat pump provides easy installation and minimises space requirements, with the heat pump manager and key system components all fully integrated into one compact unit. A complementary 100L buffer tank and 400L domestic hot water cylinder are also available to complete the system

The heat pump complies with the valid standards and safety regulations as well as the Technical Specifications for Electrical Installations (TAB) of the electrical utility companies and is VDE certified.

Range features

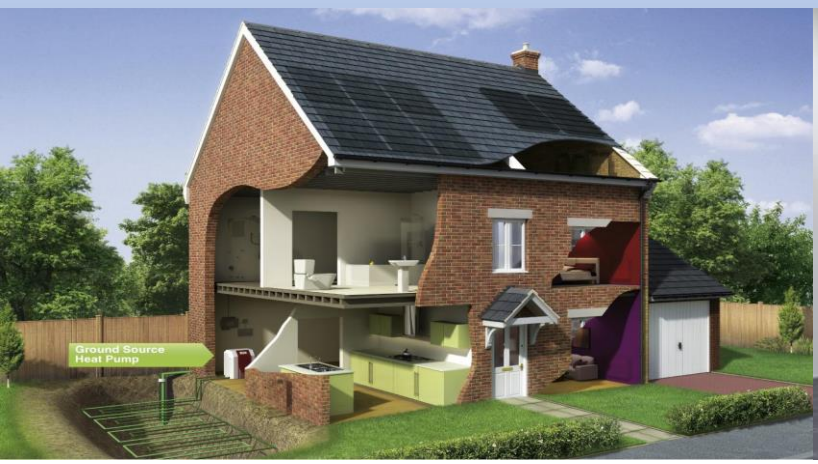
- Available with nominal heating capacities of 16kW
- Integrated system components, including circulating pumps, expansion vessels and safety assemblies for both the heating and ground collector circuits
- WPM2007 heat pump manager with removable control panel
- Variable heating water flow temperatures from 35ºC to 55ºC with weather compensation
- Suitable for use with underfloor heating, Dimplex SmartRad fan convectors or conventional radiator systems and to produce domestic hot water
- Matching built-under buffer tank for space

A++

Dimplex APPROVED Heat Pump Installer Partner

APPROVED PRODUCT MCS

Ground source heat pumps use the solar energy stored in the ground to heat your home and provide hot water. They extract the heat from the earth using collectors – consisting of plastic pipes – buried underground. Because the source of heat is free, ground source heat pumps can reduce energy costs, especially when compared to oil and LPG heating systems, plus they're virtually maintenance free. A particular benefit of ground source heat pumps is that even at a depth of 1m, the ground maintains a fairly constant temperature, so the systems perform well all year round.



APPROVED INSTALLER MCS NAPIT

GSHP association

iwa.biz INDEPENDENT WARRANTY

RECC RENEWABLE ENERGY CONSUMER CODE

REA RENEWABLE ENERGY ASSOCIATION

REFCOM F-GAS CERTIFICATED

SOLAR TRADE ASSOCIATION

ONE PLANETS CONSULTANTS LTD

Product Information – 16kW Low Temperature Ground Source Heat Pumps (SIK ME)

Dimplex

Set-up / Colour		Indoors / White
Maximum flow temperature		58°C
Temperature operating limits for brine		-5°C to 25°C
Heat output / COP at B0/W50*	kW/-	15,50 / 2,90
Heat output / COP at B0/W35*	kW/-	15,80 / 4,20
Electrical nominal power consumption at B0/W35	kW	3,77
Refrigerant R407C	kg	2,30
Flow rate (heat source) at int. pressure differential	m^3h Pa	3.5 / 13000
Heating water flow rate with an int. pressure differential of	m^3h Pa	1.3 / 3500
Dimensions (W x D x H)**	mm	652 x 653 x 1110
Weight (incl. packing)	kg	203
Control voltage	V	230
Supply voltage		1/N/PE-230V, 50Hz
Starting current with soft-starter	A	50 SA
Fuse	A	32
Device connections for heating		1 ¼"
Device connections for heat source		1 ¼"

* The specified values have the following meaning, e.g. B0/W35: heat source temperature 0 °C, heat outlet temperature 35 °C.
** Please note that additional space is required for pipe connections, operation and maintenance

Buffer tanks

Connection of a buffer tank ensures minimum compressor run times and minimum water flow rates through the heat pump to maintain optimum efficiency. A buffer is essential for air source heat pumps as it provides the energy for defrosting. Where the heat pump provides the sole source of heating, an electric immersion element can also be integrated to provide supplementary heating if required. For internal installations, the PSP range fits neatly under the heat pump to make best use of the space available.

Model	Capacity (litres)	Dimensions (mm)	For use with
PSW100	100	Ø512x850	Heat pumps up to 12kW
PSP100E	100	740x740x240	SI ME & SIK models
PSW200	200	Ø600x1300	Heat pumps up to 30kW
PSW500	500	Ø700x1950	All heat pumps

Contact Us 01993 847522

Email info@opc-ltd.co.uk

OPC Ltd
Unit F
Three Michaels Yard
Carterton South Industrial Estate
Carterton
Oxfordshire
OX18 3EZ