

Product Information – 4-14kW High Temperature Ground Source Heat Pumps (SIH RANGE)



Dimplex

High-temperature brine-to-water heat pumps

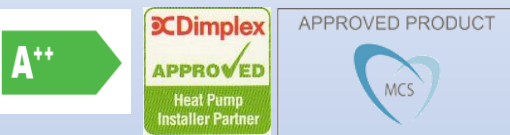
The SIH ME range provides flow temperatures up to 70°C enabling 100% of a home's heating and hot water to be provided without the need for supplementary heating.

Where space saving is an issue the SIH ME and SI ME can be combined with a 200L domestic hot water cylinder, which fits neatly below the heat pump unit.

Range features

- 4 high temperature models with nominal heating capabilities from 4 – 11kW
- 1 standard temperature model with nominal heating capabilities of 14 kW
- Variable heating water flow temperatures from 35°C to 70°C with weather compensation (high temperature models)
- WPM 2007 heat pump manager with removable control panel
- Electronic soft start control reduces starting current loads
- Suitable for use with underfloor heating, Dimplex SmartRad fan convectors or conventional radiator systems and to produce domestic hot water
- Can be used as the sole heating source or in “bivalent” mode in combination with an existing heating system
- Provides domestic hot water to 60°C with no need for supplementary heating (high temperature models)

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.



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.



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Model	SIH 4 ME	SIH 6 ME	SIH 9 ME	SIH 11 ME	SIH 14 ME
Connection Voltage (V)	230	230	230	230	230
Maximum flow temperature (°C)	70	70	70	70	58
Heat output B0/W35* (kW)	4.0	6.0	8.9	10.7	14.8
CoP B0/W35	4.1	4.1	4.0	4.5	3.9
MCS certificated	Yes	Yes	Yes	Yes	Yes
Set-Up / Colour	White	White	White	White	White
Maximum flow temperature	70°C	70°C	70°C	70°C	70°C
Temp operating limits for brine	-5°C to 25°C	-5°C to 25°C	-5°C to 25°C	-5°C to 25°C	-5°C to 25°C
Refrigerant R134a kg	1,50	1,80	2,20	2,40	1,50
Sound power level (dB(A))	55	56	56	57	56
Flow rate (heat source) m³/h / Pa	1.0 / 8600	1.3 / 8900	2.00 / 7500	2,45 / 8000	3.0 / 20000
Heating water flow rate m³/h / Pa	0.75 / 1000	0,50 / 1200	1,55 / 6400	1,00 / 1600	1.00 / 4800
Dimensions (W x D x H)** mm	650 x 462 x 805	650 x 462 x 805	650 x 462 x 805	650 x 462 x 805	650 x 462 x 805
Weight (incl.packing) kg	118	118	130	133	120
Fuse A	38SA	38 SA	43SA	45SA	50SA
Device connections for heating	1/1/4"	1/1/4"	1/1/4"	1/1/4"	1/1/4"
Device connections for heat source	1/1/4"	1/1/4"	1/1/4"	1/1/4"	1/1/4"

* 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

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