

Sanderling Warmth

The most **advanced** way to heat your home



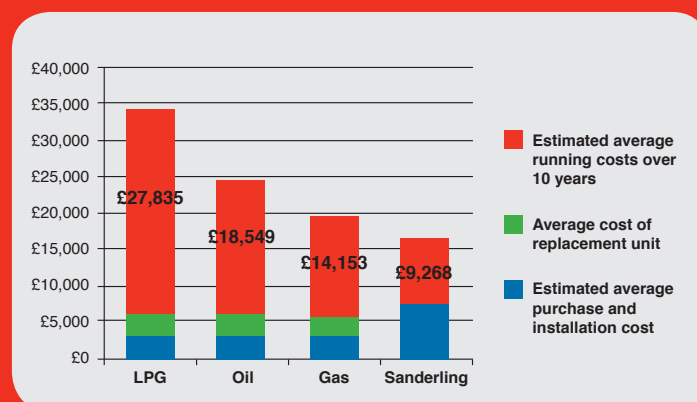
- Sanderling Warmth's new generation heating systems actually "harvest" heat from a truly free source: the air outside your home.
- Save up to 75% of the cost of heating your home and domestic water.
- Pay for less than a third of the energy you actually use.
- No more oil, gas or LPG bills for heating your home.
- Reduce your CO₂ emissions.
- Sanderling Warmth systems are based around air-to-water heat pumps, the fastest-growing heating type in Europe, but now designed to suit the UK.
- The cost of installation is rapidly paid back by the savings you make on the cost of oil, gas or LPG.
- Wide range of advanced and economic systems, to suit most homes.
- £900 government grants available, showing commitment to this technology.

All Sanderling Warmth systems come with a comprehensive peace of mind guarantee and are expected to last for over 20 years, compared to the more normal 3-8 years for a new condensing boiler.

The figures in the chart and table below will give you an indication of the considerable cost savings you could achieve over time by switching to Sanderling Warmth.

Every home has different heating and hot water requirements, and costs, depending on its size, age, level of insulation and the price of energy (LPG, oil, gas, electricity). The figures below are based on estimated average LPG, oil and gas prices in 2009 and assume a 200 square metre house with an average level of insulation, which is occupied by four people.

Comparative costs of Sanderling Warmth vs conventional fuels



Sanderling Warmth Series 60

The Series 60 is a new model created by Sanderling Warmth for the UK; it produces hot water to 60°C, even when the outside temperature is as low as -15°C. This means a warm home and hot water at all times, without the need for any backup.

It suits homes where the insulation is perhaps not up to the very highest standards and, although we always recommend that insulation levels are as advanced as possible, we recognise that this is not practical in all homes.

The Sanderling Warmth Series 60 comes in a wide range of power outputs, so that our Sanderling specifiers and installers can ensure that you have the unit that perfectly balances your need for

warmth and hot water, with your wish to keep down those fuel bills.

Example of savings on running costs achieved with Sanderling Warmth

Fuel Type	Estimated Annual Running Cost	Annual Saving with Sanderling Warmth	Percentage Saving
LPG	£2,784	£1,857	67%
Oil	£1,855	£928	50%
Gas	£1,345	£418	31%
Sanderling Warmth	£927	-	-

TECHNICAL SPECIFICATION

Series 60



Heat Pump Model	60/7			60/10			60/12			60/15		
	Ambient air temperature			Ambient air temperature			Ambient air temperature			Ambient air temperature		
	-5°C	0°C	+7°C	-5°C	0°C	+7°C	-5°C	0°C	+7°C	-5°C	0°C	+7°C
Heating Output (kW) for water to 35°C	4.6	5.5	6.6	7.3	8.8	10.5	8.2	9.9	11.9	10.1	12.2	14.7
COP	3.3	3.7	4.1	3.5	3.9	4.3	3.4	3.8	4.2	3.5	3.9	4.3
Heating Output (kW) for water to 45°C	4.4	5.3	6.3	7.1	8.5	10.0	8.0	9.5	11.3	9.8	11.8	14.0
COP	2.7	3.0	3.3	2.8	3.1	3.5	2.8	3.1	3.4	2.8	3.1	3.5
Heating Output (kW) for water to 55°C	4.2	5.0	5.6	6.8	7.9	9.0	7.6	8.9	10.1	9.4	11.0	12.5
COP	2.0	2.2	2.4	2.1	2.3	2.5	2.0	2.2	2.5	2.1	2.3	2.5
Power Supply	230V/1ph/50Hz			230V/1ph/50Hz			230V/1ph/50Hz			230V/1ph/50Hz		
Maximum Load (Amps)	14.5			20.6			25			29		
Water Flow (m ³ /h)	0.71			1.13			1.28			1.58		
Water Connector Size	1"			1"			1"			1"		
Refrigerant	R407C			R407C			R407C			R407C		
External Body Material	Stainless Steel 304L			Stainless Steel 304L			Stainless Steel 304L			Stainless Steel 304L		
Weight (Kg)	100			103			105			115		
Dimensions - Height/Width/Depth (cm)	81.5/110/45.5			81.5/110/45.5			81.5/110/45.5			112/110/45.5		
Noise level @ 10m (dBA)	37			37			37			39		
Minimum/Maximum operating	-15°C/+35°C			-15°C/+35°C			-15°C/+35°C			-15°C/+35°C		

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