

DATA SHEET CAMBRIDGE

Air Source Heat Pump					
Product Name Model Number	Cambridge CAM407CM0D1				
SSHEE (Avg conditions)		108%			
(Air 7°C/Water 35°C)*	Rated Output (kW)	82.5			
	Power Consumption (kW)	25.1			
	Rated COP	3.3			
(Air 2°C/Water 35°C)*	Rated Output (kW)	79.3			
	Power Consumption (kW)	27.6			
	Rated COP	2.9			
(Air -7°C/ Water 35°C)*	Rated Output (kW)	67.3			
	Power Consumption (kW)	26.0			
	Rated COP	2.6			
Domestic Hot Water Temperature (°C)		65			
Weight (kg)		1000			
Heat Pump Voltage / Frequency		400/415V 3~ 50Hz			
Max Running Current (A) Compressor		60			
Max Electrical Power (kVA) Compressor		54			
Sound Power Level @ 1m (dB)*		75			
Minimum Operating Temperature (°C)		-20			
Maximum Operal	30				



Model	Н	W	D
Cambridge	1881	3660	1778
		All sizes in mm	

* Test results as per BS EN14511





CASE STUDIES

CASE STUDY 1

- Large commercial space (3500m²)
- 1 x 100kW Cambridge
- 2015 running costs £8000
- 40% emissions reduction
- 🔈 RHI eligible

3500M² WAREHOUSE

The owners of this 3500m² warehouse and production hall wanted to hold the space at a working temperature of 19°C and remove the existing gas system. Based on a heat loss survey, and the client's expected pattern of air change through the large doors, a single Cambridge 100kW unit was specified. The air source heat pump was coupled with easy to install and commission ceiling mounted fan convectors, allowing both heat delivery and an element of destratification. The fan convectors were specified to allow low flow temperatures maximising the system efficiency.

In 2015 running costs were estimated at under £8,000. With anticipated payments from the RHI, total savings are estimated at £9,750 at 2015 prices.

Carbon emissions are expected to fall by up to 40%.

The Client commented: "After a full year of running, including a spell of cold weather last winter, we have been impressed with the new system. Maintenance is low and running costs have been better than last year, even before taking into account the subsidies."



CASE STUDY 2

- Retro-fit school scheme
- 1 x 100kW Cambridge
- Existing radiator system
- Gas boilers integrated
- RHI potential £8000 pa



VICTORIAN SCHOOL

Clarence High School have a large, Victorian building with an equally large, radiator based system. Seeking to both control costs and reduce emissions whilst benefiting from the RHI, they looked to an air source heat pump. Given the scale of the existing radiator system and the costs of a full overhaul, a Cambridge 100kW heat pump was specified in tandem with gas boilers. This bivalent system uses the heat pump for the full heating season, with the gas boilers controlled by the heat pump, boosting the system flow temperatures. The gas boilers are only used when the output of the heat pump is insufficient to meet the target temperatures.

With potential RHI payments of up to £8000 a year, the project was justified without the need to demonstrate large savings on running costs.

Carbon emissions are expected to fall by up to 25% on the heat generated by the heat pump.

For more information visit www.globalenergysystems.co.uk or call +44 (0) 3333 444 414











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