

NetGreen Heat Installed (Standard Installation) - Costs Breakdown

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1. Sistema Solar - Supply and Installation of Solar System, with Pipework and Valves

6,492 €

No.		Material	Labour
10	Solar Collectors (Type: Heat Pipe/Vacuum Tube) and Installation of Solar system	3,950.00 €	725.40 €
3	Each 4 collectors have a vent resistent to high temperatures, until 200°C, com valve.	36.05 €	
3	The collectors are connected in twi pairs (4), with balancing systems for flowrate.	106.58 €	
3	All pipework and sensor cables, with related fixing systems (supported by building fabric)		25.00 €
1	Circulation Pump Station	384.00 €	
	Expansion valve with Safety Valve	68.75 €	
	Supply and Installation of Controller (with 3 sensors)	94.60 €	
	Appropriate number of Ball valves for Isolation control.		50.00 €
Estimated material			
22	(meters) ø32mm Stainless steel pipework for Solar system Installation (Storage Cylinder plant room to Roof)	213.68 €	
40	(meters) ø25mm Stainless steel pipework for Solar system Installation (Roof to Solar Collectors)	353.00 €	
62	(meters) All stainless Steel pipework shall have Thermal Insulation - SHT Armaflex (19mm thickness.)	467.38 €	
28	(meters) Cable for sensors - From roof to Controller located in Cylinder plant room.	17.50 €	

2. Secondary System - Installation of three wall mounted Fan Coil units (@2 kW) and Hot Water Storage systems.

3,773 €

No.		Material	Labour
1	Hot water cylinder (Capacity 500 liters) with heat exchanger.	1,080.00 €	
1	Supply and Install Expansion cylinder	79.38 €	20.00 €
3	Supply and Install of wall mounted Fan Coil units, with thermostat.	1,428.38 €	302.40 €
1	Supply and Install of circulation pump, with two isolation valves.	75.60 €	60.00 €
1	Supply and Install of system of control.	85.00 €	75.60 €
Estimated material			
18	(meters) Supply and Install of electrical cable to each Fan Coil unit.	60.00 €	60.00 €
35	(meters) Supply and Install of ø25mm pipework (PEX or Polypropylene) and thermal installation (thickness 13mm),	245.00 €	201.60 €

3. Secondary system - Installation to heat Swimming Pool

1,253 €

No.		Material	Labour
1	Supply and Install Heat Exchanger - inside Filtration Plant room.	427.68 €	50.40 €
1	Supply and alteration of PVC pipework , inside Filtration Plant room.	40.00 €	176.40 €
Estimated material			
50	(meters) Supply and Install of ø25mm pipework (PEX or Polypropylene) and thermal installation (thickness 13mm), - Filtration Plant room to Cylinder Plant room (Trench 25m)	325.00 €	234.00 €

4. Primary System - Installation of Heat Pump		1,282 €	Material	Labour
No.				
1	Supply and Installation of Heat Pump (Capacity 6 kW), with Controller		1,030.00 €	252.00 €
5. Secondary System - Alteration of existing Hot Water system, to integrate with NetGreen Heat		699 €	Material	Labour
No.	Asuming that: Use an existing cylinder with an external Heat Exchanger.			
1	Supply and Installation of Heat Exchanger		154.00 €	243.00 €
1	Supply and Installation of mechanical temperature mixing valve (thermostatic)		81.00 €	20.00 €
1	Supply and Installation of Pump with two isolating valves.		72.80 €	30.00 €
Estimated material				
10	(meters) Supply and Install of ø25mm pipework (Polypropylene) and thermal installation (thickness 13mm),		98.00 €	
Other Materials necessary in the construction of system.		252 €		
	Supply and Installation of Electrical distribution panel, with Fuse protection.		84.24 €	168.00 €
			TOTAL COST	13,751 €
Other Options available:				
	Additional Heat Pipe tubes (reserve).		each	22 €
	Cooling System - Adsorption Chiller 8kW - Connected to NetGreen Heat - uses Fan Coil units installed.		Estimated	15,000 €