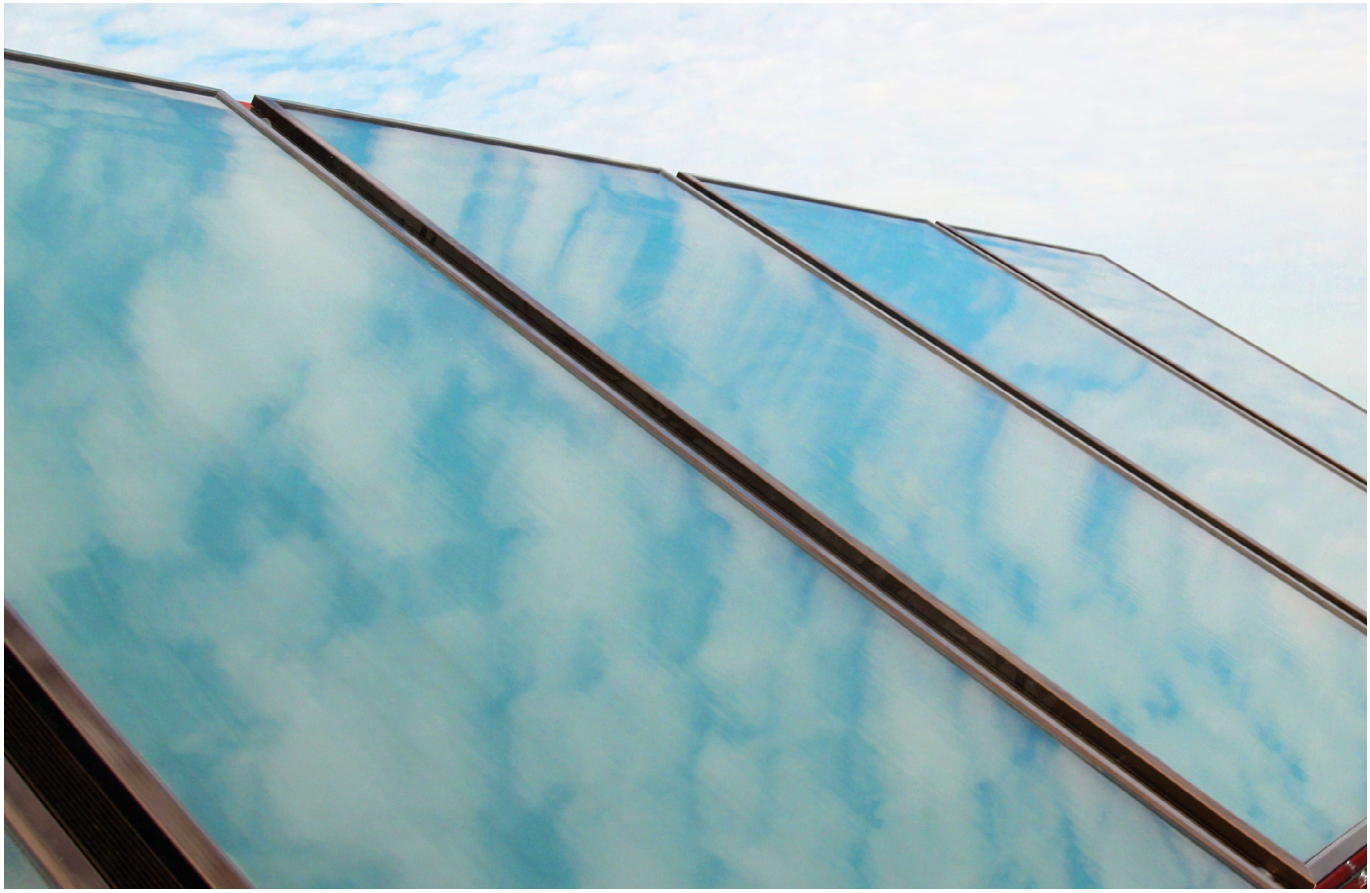
Solar Water Heating system

ECA Technology brings the heat of the sun into the home using highly efficient, renewable energy technology. The solar water heating system captures solar energy, stores it and uses it for **meet the requirements to produce domestic hot water and heating** that is environmentally friendly and cost-effective.

The comfort that is derived from solar water heating systems can be measured in terms of the benefits for the environment and in a reduction in utility bills!
The system can be designed using **natural circulation** by installing a water heater just above the solar panel which stores the heat collected by the fluid circulating in the circuit in a natural manner.
If larger quantities of water are required, or positioning a tank above the panels is not possible, a **forced circulation** system can be designed to meet the needs of the customer, which transfers the collected heat to a domestic water tank via a heat exchanger.

Advantages

- Energy and cost savings of at least 50%,
- Can be integrated into existing or new systems;
- Increases the energy class of the building;
- Reduces CO2 emissions.



Natural Circulation

Natural circulation systems are the simplest applications of solar systems for the production of domestic hot water. In these systems, the water heater is installed close to the collector in its highest position. They are supplied in complete kits with a galvanised steel support structure, in models that suit a variety of requirements.

A Kit includes:

- Selective solar collector with prismatic tempered glass,
- Enamelled glass tank at 850°C,
- Pipeline cover casing,
- Liquid circulation pipeline kit and connection accessories,
- Glycol tank,
- Galvanised steel profiles to mount the frame,
- Hot-dip galvanised steel support structure,
- Safety valves,
- 2 kW round electric element with thermostat.

Solar water heating natural circulation

TECHNICAL DATA

MODEL		ESK160SR	ESK160SR	ESK200SR	ESK300SR
Collector	mod.	ESPS210	ESPS260		ESPS210
Quantity	No.	1	1	1	2
Dimensions	HxWxD	2050x1012x90	2050x1279x90		2050x1012x90 (x2)
Surface area	m²	2.08	2.62		2.08 (x2)
Open surface	m²	1.80	2.33		1.80 (x2)
Collector weight	kg	36	45		36 (x2)
Tank	mod.	EBN160R	EBN160R	EBN200R	EBN300R
Nominal capacity	l	160	160	200	300
Dimensions	Ø / L	530x1320	530x1320	570x1320	570x2050
Weight	kg	59	59	65	110
Energy class		C	C	C	C
Dissipation		68 W	68 W	65 W	87 W
Support structure (Weight)	kg	24	24	24	32
Code		**1901010**	**1901011**	**1901012**	**1901014**