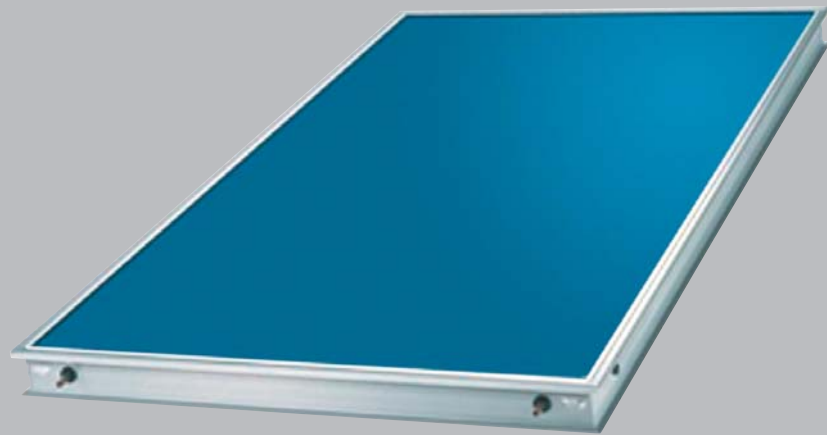


▶ SUNWARM HOT WATER



Solar energy solution to
supplement your hot water
requirements.

Sunwarm Water - High performance, flexible solar assisted hot water system suitable for in-roof, on roof and flat roof applications.

BENEFITS

Nuaire's Sunwarm Solar Hot Water system works by efficiently absorbing energy radiated by the sun and converting it to hot water.

The system is suitable for all applications from domestic to industrial and commercial.

The benefits of having a Nuaire Sunwarm Solar Hot Water system are:

- **Save money and the environment**

Sunwarm solar hot water reduces fuel bills and the amount of fossil fuels consumed.

- **Designed to use indirect solar radiation as well as direct sunlight**

The Sunwarm Solar Hot Water system works efficiently all year round, providing about 50 to 60% of annual domestic hot water requirements.

- **Fully flexible system**

Can be installed on the roof, in the roof, or as a stand alone on a flat roof.

- **Includes Solar Hot Water Pump Station**

- ~ Wall mounted insulated, polypropylene foam enclosure, 3 speed circulating and solar pump

- ~ Water/propylene glycol solution protects against freezing down to -24°C

- ~ Solar fluid transfers heat more efficiently than water

- Tested to BS EN 12975

- ~ Solar Keymark Approved

- **Warranty**

Sunwarm Hot Water has a 5 year warranty.

Note: Sunwarm hot water = ZERO - loss

collector efficiency $\eta_0 = 0.791$.

Collector heat loss coefficient, $\frac{9}{1} = 3.307$ w/m².K

Typical installation of solar unit



Solar Hot Water Pump Station.

SUNWARM HOT WATER

Consultants Specification

System description

The solar hot water system shall be in the form of a flat plate solar collector using selectively coated copper absorber, encased in sturdy extruded aluminium frame structure with aluminium back capable of in roof and on roof installation. The solar collector shall have low iron solar glass of at least 4mm thickness and should have passed BS EN 12975 tests with at least 75% efficiency.

The solar collector must be well insulated using an approved sustainable insulation material. All external fitting components should be made of stainless steel or aluminium to avoid corrosion. The solar collectors must be well insulated to reduce heat losses and must include an air vent for reduction of condensation as well as having a built in solar collector sensor pocket. The weight of each collector should not exceed 50kg.

Inlet and outlet connections are preferred to be on top for easier and more aesthetically pleasing connection in series.

The solar system shall include a solar station utilizing a solar rated circulating pump, a flow meter, easily accessible points for pressure filling the solar loop, temperature and pressure gauges, an air separator and a temperature and pressure relief valve. The system shall also include as a minimum an 18 litre solar rated 10 bar expansion vessel. All terminal connections from solar station must be in 15mm or 22mm compression fitting.

Appropriate antifreeze premixed solution must be supplied.

Sunwarm Hot Water has a 5 year warranty.