



SOLAR APPLICATION PRODUCTS

HEATING & HOT WATER APPLICATIONS



EPS offers Solar Hot Water and Heating collectors complete with associated components such as heat exchangers, tank, solar / electric powered circulation pumps for a complete system solution.

It is vital to select the correct type of collector to suit a specific application and our matching set of periferal components together without reliable Solayo collector offers piece of mind.

FEATURES;

SOLAYO vacuum tube type solar collectors are constructed from high quality stainless steel, copper, aluminium and low emisivity glass for a reliable and safe operation.

Individual tubes are manufactured at 1.5m and 2.5m lengths to suit any site and application for both domestic and commercial applications.

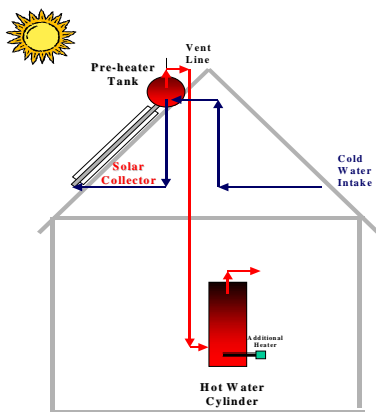
The collector as a result of Vacuum offers very high heat transfer efficiency and the lack of air further improves the durability and it eliminates scaling and corrosion problems.

APPLICATIONS; Standard vacuum type collectors can be applied for any commonly used application techniques and individual tubes can be mounted in a number of alternative combinations to suit any site configuration.

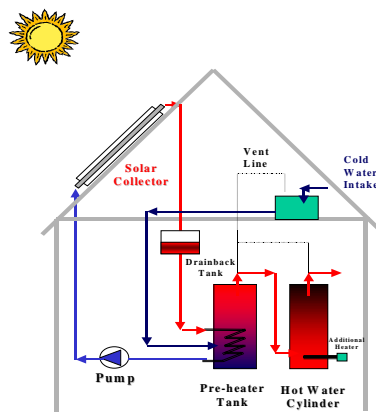
Thermosyphon Systems, where circulation of the heat transfer fluid is provided via natural convection and this technique is mainly used in moderate climates like southern Europe.

Direct System requires heat transfer fluid to cope with high standing as well as cold winter conditions. This heat transfer fluid must be capable of providing corosion protection between extreme high and low temperature during the life expectancy of the system. EPS offers well proven in-house Tyfocor-HTL to overcome this issue.

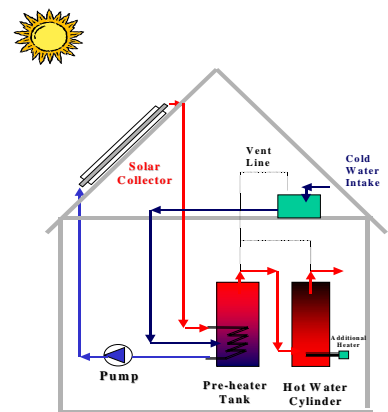
Drainback Systems utilise water which must be protected against over heating and freezing and this is achieved by using an additional drainback tank to empty the collector if it is not in use.



Thermosyphon System



Drainback System



Direct System

TECHNICAL SUPPORT

EPS offers full system design support to assist in proper selection and integration into existing or new installations as part of our customer commitment. Please consult our technical sales team at sales@epsLtd.co.uk for your specific application or visit our web site www.epsLtd.co.uk.

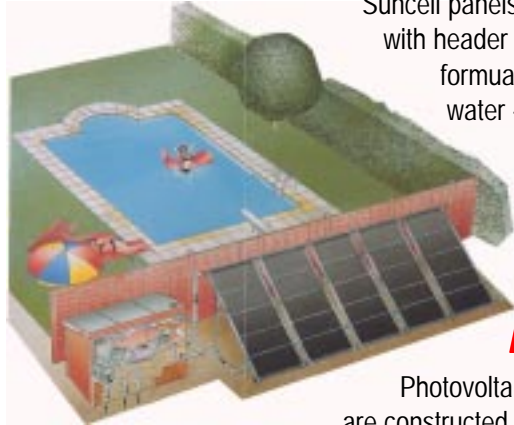


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Suncell SOLAR APPLICATION PRODUCTS

SWIMMING POOL APPLICATIONS

Suncell solar panels have been manufactured since 1976 and specifically designed to suit swimming pool heating. Relatively low temperature together with corrosive nature of pool water offer an ideal opportunity to utilise glass free, non-metallic solar collector for a cost effective option.



Suncell panels comprise a Polypropylene collector plate with header pipes welded at each end mounted in an aluminium frame. The use of specially formulated polypropylene ensures a long life and complete freedom from corrosion by pool water - even from sea water.

1.2 m wide panels manufactured in two standard length 2m and 3m to suit almost any site requirements and their light weight construction further improves the possibility of using light roof constructions. The installation of these cells are straight forward and they do not interfere with the operation of other pool equipment such as filters, pumps, heaters and chemical dosing systems.

ELECTRICITY GENERATION

Photovoltaic (PV) collectors convert light energy into electricity. They are constructed using Single, Poly, Amorphous Silicons, Copper Indium Diselenide or Cadmium Telluride materials for different efficiency applications.

Individual cells are coated with anti-reflective lines and they are inked in panel form using laminated cover and solid backing materials.

Modules are formed using heavy-duty anodized aluminium frames for a safe and reliable operation. These modules can produce as much as 100W /m² power supply. The simplest systems can power small calculators but large scale commercial units can power pumps, lights and domestic appliances such as refrigerators. The combination of battery storage, DC powered and DC / AC invertors can even run small air conditioning units.



REFRIGERATION & AIR CONDITIONING APPLICATIONS



Remote areas with no direct power supply necessitated the use of sun energy to drive domestic refrigerators, medical cabinets for many years.

The recent development of high efficiency PV cells enables us to explore the possibility of driving small scale refrigeration systems in particular for the electronic chambers cooling.



The combination of our in-house PlusICE Eutectic (PCM) units utilise the difference between the day and night temperatures and therefore it minimises the need for a large scale cooling load. This technique enables us to devise a small scale commercial system by simply using high efficiency PV cells and battery combinations.



Large scale air conditioning systems can also use solar collectors to generate hot water to drive either absorption machines, ejectors or a combination of both to produce a cooling effect.



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