



## INTRODUCTION

The Solartwin Solar Thermal System is highly efficient and safe. It is an insulated flat plate collector housed within an aluminium frame, beneath a layer of polycarbonate. The system is solely powered by Solar Energy therefore it is suitable for both off grid and grid connected properties.

The system is scalable with each panel individually monitored and pumped.

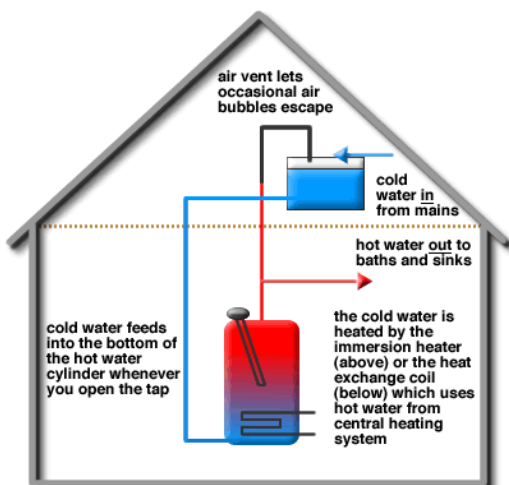
The system is connected to two points of a traditional hot water system, the Vent pipe near to the hot water cylinder and near to the cold water feed. The connections to the Collector are made through white Silicon Microbore Tubing which is sheathed in hard polypropylene plastic and insulated with pipe lagging.

The safety of the system is paramount; the highest voltage present is less than 20V DC the standard operating voltage being between 9-12V.

The collector has a warranty of ten years.

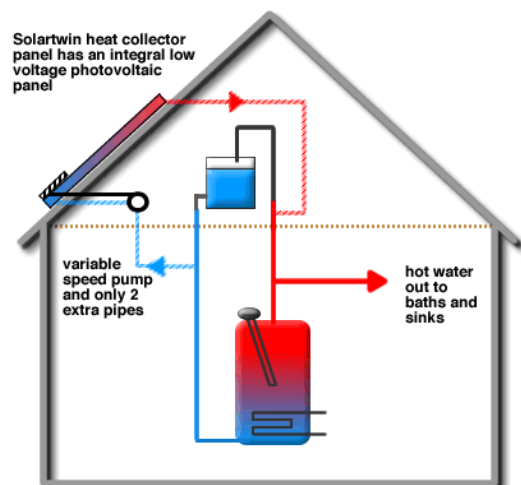
### Basic Plumbing

for a normal low pressure hot water system - no solar



### The Solartwin system

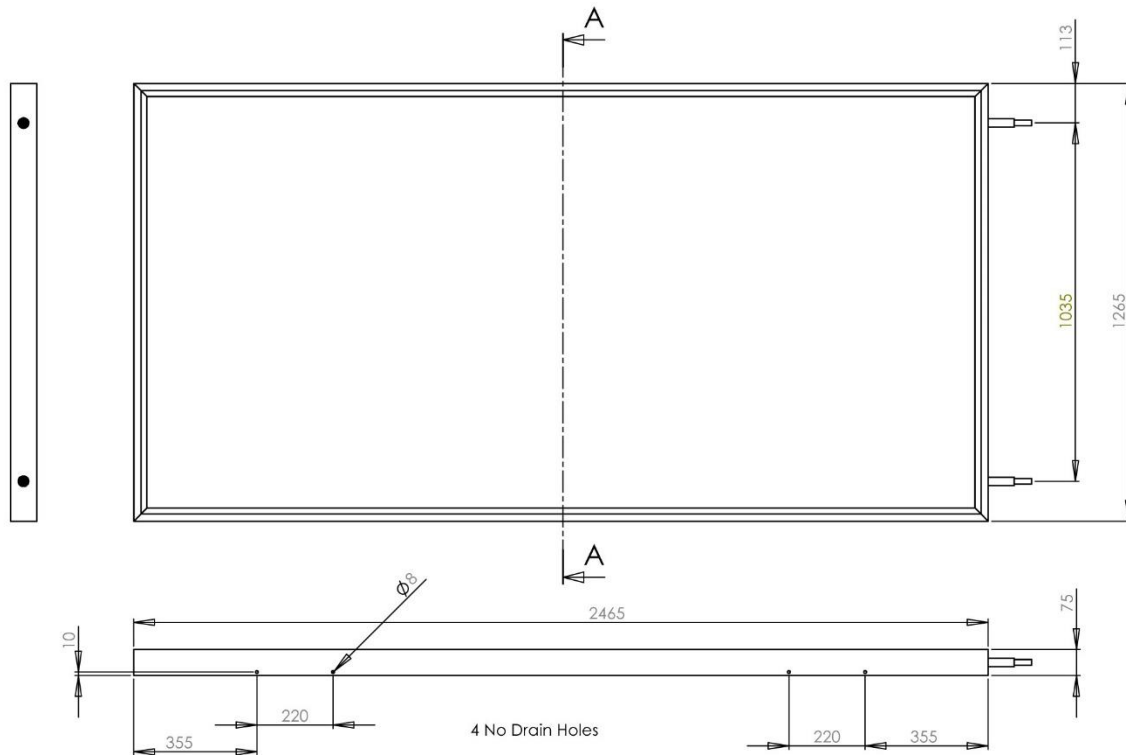
plumbed "direct" showing its low impact installation



## KEY FEATURES

- Lightweight
- Low Profile
- Freeze tolerant system
- Retrofit onto existing vented hot water system
- Fully solar powered, no mains electricity connection
- Left or Righthand entry for pipe connections
- 10 year warranty
- Maintenance free operation

## COLLECTOR DIAGRAM



## TECHNICAL SPECIFICATION

Gross collector area (m <sup>2</sup> )	2.82
Length (mm)	2465
Height (mm)	1264
Depth (mm)	75
Weight (kg)	30.5
Liquid content (l)	2
Zero heat loss efficiency	$\eta_0$ : 0,591
Heat loss coefficient	a1: 3,865 a2: 0,013
Stagnation Temperature (°C)	152
Peak power (W)	1663
Emissions	0
Connections	2x 22mm Reducers to 15mm
Max operating pressure	1,5 bar