



Renewables



FLAT PLATE SOLAR COLLECTOR (harp absorber)

EHC-2.0 Flat Plate Solar Collectors have been developed to provide maximum efficiency, outstanding performance and total reliability which is reflected in the 10 year warranty offered on our panels. Our flat plate collectors are generally used for heating domestic hot water using our EHC Solar Cylinders however they can also be used in conjunction with existing gas or electric heating systems. For properties with no access to mains gas our Fusion E10 Solar Combination Unit, used in conjunction with our Solar Collectors, is the ideal solution.

As well as other key advantages the EHC Solar kits can work as a Stand Alone System or with:

- Electric Boiler systems
- Gas Boiler Systems

We can also supply:

- Brackets for Corrugated roofs mostly found on commercial buildings
- Standard on-roof bracket kit
- A-Frame bracket kit for flat roofs and gable end walls

KEY ADVANTAGES

Absorber plate is manufactured using “Blue Tec eta plus” coating ensuring the highest level of solar radiation conversion. Coefficients: absorption 95%, emission: 5%.

Advanced ultrasonic welding technology is used to attach the copper plate absorber to the copper pipes

Highest efficiency of thermal energy transfer guaranteed

High quality prismatic solar glass to improve the effectiveness of radiation permeability

Sealed housing is made of powder painted aluminium sheet to ensure long term durability of collector structure

Thermal insulation is made of condensed mineral rock wool to minimise the thermal loss

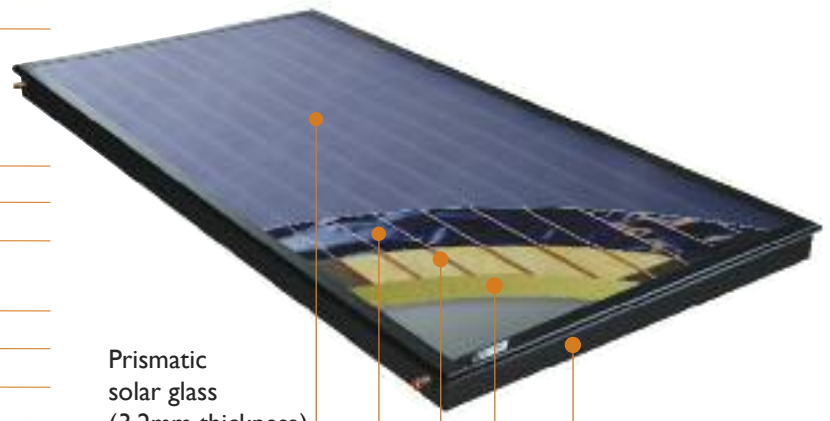
Collector construction elements are made of durable materials (copper, aluminium)

10 year warranty for peace of mind

Technical Data

Width	mm	1072
Height	mm	2119
Depth	mm	90
Weight	kg	36
Copper absorber thickness (with selective layer - Blue Tec eta plus)	mm	0.2
Collector surface area	m ²	2.27
Absorber surface area	m ²	2.00
Active surface area of absorber	m ²	1.98
Insulation thickness	mm	45
Optical efficiency	%	81.5
Coefficient a1	W/(m ² K)	3.49
Coefficient a2	W/(m ² K ²)	0.004
Liquid content	litre	1.13
Max. working pressure	bar	6
Diameter of connection pipes	mm	18
Glass thickness	mm	3.2
Absorption coefficient	%	95
Emission coefficient	%	5
Flow: Min - Max	Litre/min	1 - 4

Construction



Prismatic solar glass (3.2mm thickness)

Absorber plate with high selective Blue Tec ETA PLUS coat

Copper tubes

Rock wool insulation

Aluminium enclosure

