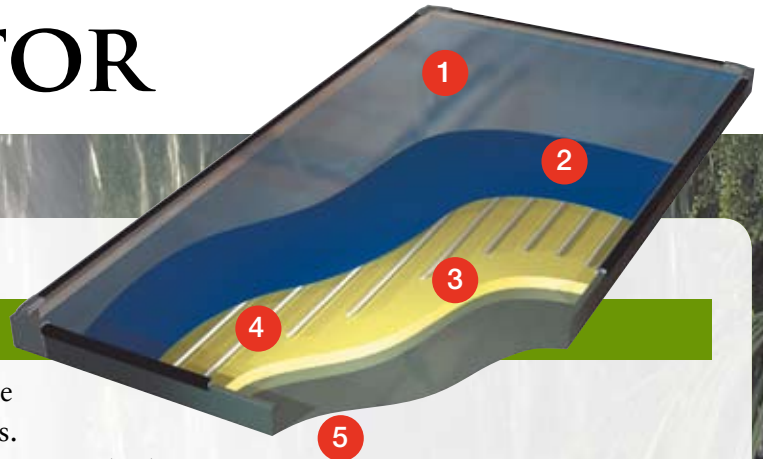


BT COLLECTOR



Description

The Solahart BT collector is designed to generate maximum performance in all climatic conditions.

The ultra-high efficiency absorber with its blue sputtered selective surface maximises absorption and minimises emission (heat loss). The 13 copper risers are mechanically bonded to the copper absorber sheet ensuring maximum heat transfer.

The BT collector can be used in both closed and open circuit systems and is designed to connect multiple collectors easily to each other to create large collector fields.

The BT collector's flexibility means it can be used with almost any solar system and is the performance choice for Solahart's revolutionary range of commercial drain-back pumped solar systems.

Image Key:

1. Low iron Matt/Matt Tempered Glass: Maximises available solar radiation. **2. TiNOX Sputtered Copper Selective Surface Absorber Plate:** Improves solar gain with very low emittance values. **3. Glasswool Insulation:** Reduces heat losses and improves performances. **4. 13 Copper Risers:** Used for their excellent corrosion resistance and heat transfer properties. **5. Strong Aluminium Tray:** provides all weather protection.

Key Features

- High performance copper collector
- High performance sputtered absorber
- High performance glass wool insulation
- Peace of mind with 5 year conditional warranty*
- Certified with the European quality label 'Solar Keymark'



Key Benefits

- Reliable and durable
- High performance
- Can be installed vertical or horizontal
- Can be installed on facade
- Easy installation
- Durable aluminium tray

BT Collector

OVERALL DATA

Overall Collector Dimensions	mm	1941 x 1027 x 83
Weight of Collector - Full	kg	33.1
Accreditation		EN12975
Aperture Area	m ²	1.86

RISERS

Number of Risers		13
Fluid Capacity	ltrs	2.1
Riser Dimensions	mm	9.52 x 0.71 x 1864
Header Dimensions	mm	25.4 x 0.91 x 996
Test Pressure	kPa	300
Maximum Working Pressure	kPa	1400

INSULATION

Glass Wool Insulation Density	kg/m ³	12
Insulation Thickness - Base	mm	38
Polyester Insulation Density - Sides	kg/m ³	32
Insulation Thickness - Sides	mm	28

CONNECTIONS

Inlet/Outlet Connections	kg/m ³	¾" BSP Female Compression
Max. Torque	Nm	34

GLAZING

Glazing Type		Tempered Low Iron Matt-Matt Glass
Glazing Thickness	mm	3.2
Glazing Transmittance		0.89 min
Glazing Iron Oxide Content	%	<0.04

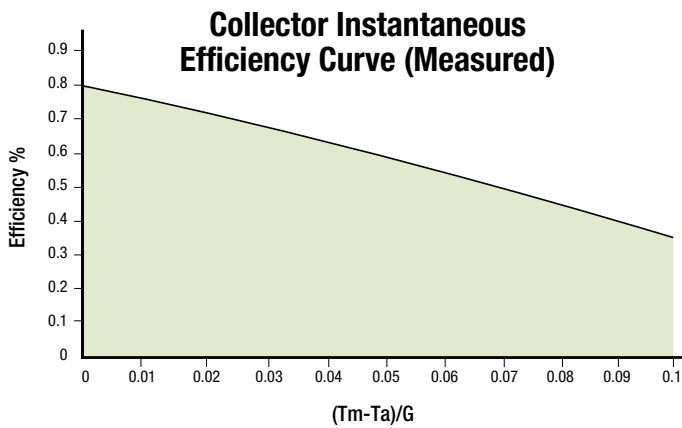
ABSORBER PLATE

Absorber material		Copper with Sputtered surface
Effective Absorber Surface Area	m ²	1.86
Absorber Plate Thickness	mm	0.2
Absorber Plate Dimensions	mm	1895 x 985
Emittance of Surface		0.04 +/- 2%
Absorptance of Surface		0.95 +/- 2%

CASING

Casing Thickness	mm	0.7mm
Casing Drain Holes	mm	4 x Ø4mm

η_0	0.801
a_1	3.858 W/(m ² K)
a_2	0.01 W/(m ² K ²)



Your local distributor:

* Warranty: 5 years Collector, 1 Year labour, 1 year parts.

Solahart Australia Tel: 1300 769 475 • www.solahart.com.au
 Solahart International Tel: +61 8 9351 4600 • www.solahart.com