

# Solar Collector

Our **Solar Keymark's certified collectors** are the result of a long track of continuous efforts of research and development and are designed by using advanced technologies to guarantee high efficiency and perfect design.

Our solar collectors are, mainly, characterized by:

**Full plate selective absorbers** and optimal number of riser tubes to provide High efficiency by maximizing energy absorption and reducing emittance.

**Low iron (Extra-Clear) Solar tempered glass** « Securit » with high optical efficiency to maximize transparency and to provide a protection against brutal chocks and/or rude environmental conditions. On the other hand, the **micro-prisms** of the inside face of the glass provide an optimal utili-

zation of solar energy by reducing energy losses of reflected sunrays.

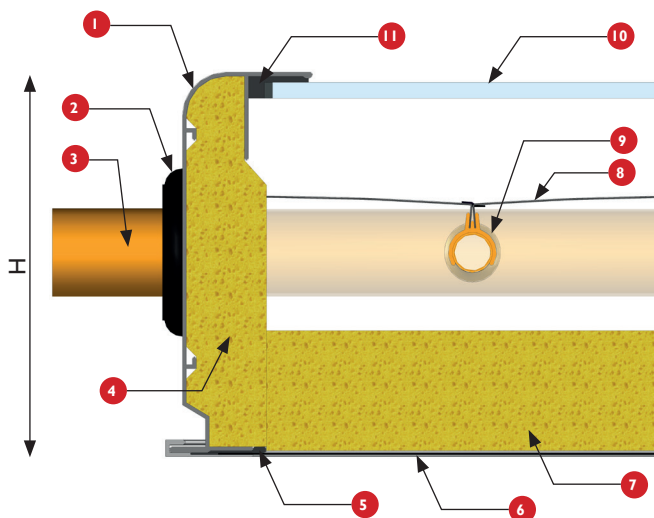
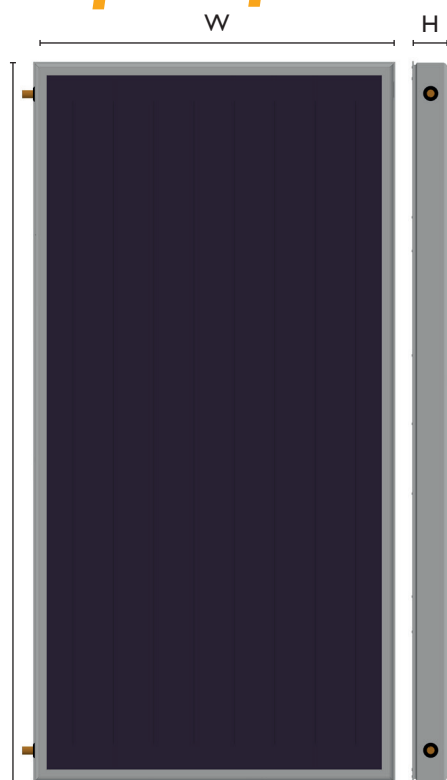
**Dual thermal insulation** on the back and the sides of the frame to minimize heat losses.

**High quality Polyurethane sealing glue** with high adherence and durability as well as a high thermal resistance to accommodate differential expansion between the frame and the cover even under stagnation temperature conditions.



*Ecological*  
**Saving**

# Specifications



- |  |   |
|--|---|
| 1 - Outside framing made of aluminum profile.        | 7 - Back insulation made of 40mm thick glass wool |
| 2 - Silicone rubber of high thermal resistance.      | 8 - Full plate Selective Aluminum absorber.       |
| 3 - Header copper tube Ø 22.                         | 9 - Riser copper tube Ø 10.                       |
| 4 - Sides' insulation made of 20mm thick glass wool. | 10 - Solar low iron tempered Glass.               |
| 5 - Polyurethane sealing glue                        | 11 - Polyurethane sealing glue                    |
| 6 - Back cover made of Galvanized steel sheet        |   |

|  | Model |       |       |
|--|-------|-------|-------|
|  | T200S | T230S | T250S |

## Dimensions

|                       |                     |                     |                     |
|-----------------------|---------------------|---------------------|---------------------|
| • Length ( L ) :      | 1992 mm             | 1877 mm             | 1992 mm             |
| • Width ( W ) :       | 992 mm              | 1265 mm             | 1265 mm             |
| • Height ( H ) :      |                     | 95 mm               |                     |
| • Gross Area :        | 1.98 m <sup>2</sup> | 2.37 m <sup>2</sup> | 2,52 m <sup>2</sup> |
| • Weight when empty : | 33 Kg               | 41 Kg               | 43 kg               |

## Absorber

|   |                     |                     |                     |
|---|---------------------|---------------------|---------------------|
| • Type :                                  | Full Plate          |                     |                     |
| • Material :                              | Selective aluminum  |                     |                     |
| • Aperture area :                         | 1.78 m <sup>2</sup> | 2.17 m <sup>2</sup> | 2,31 m <sup>2</sup> |
| • Material and diameter of riser tubes :  | Copper Ø 10 mm      |                     |                     |
| • Number of riser tubes :                 | 8                   | 11                  | 11                  |
| • Material and diameter of header tubes : | Copper Ø 22 mm      |                     |                     |
| • Number of header tubes :                | 2                   |                     |                     |
| • Absorber volume capacity :              | 1600 ml             | 2050 ml             | 2130 ml             |
| • Max. operating pressure :               | 10 bar              |                     |                     |

## Frame

|                                |                        |
|--------------------------------|------------------------|
| • Material of the frame :      | Aluminum Profile       |
| • Material of the back cover : | Galvanized steel sheet |
| • Thickness of the back cover: | 0.4 mm                 |
| • Sealing :                    | Polyurethane glue      |

## Glazing

|                     |                      |
|---------------------|----------------------|
| • Material :        | Solar Securit Glass  |
| • Characteristics : | Low iron - Prismatic |
| • Thickness :       | 3.2 mm               |

## Insulation

|                         |            |
|-------------------------|------------|
| • Material :            | glass wool |
| • Thickness on the back | 40mm       |
| • Thickness on the side | 20mm       |

Distributor

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