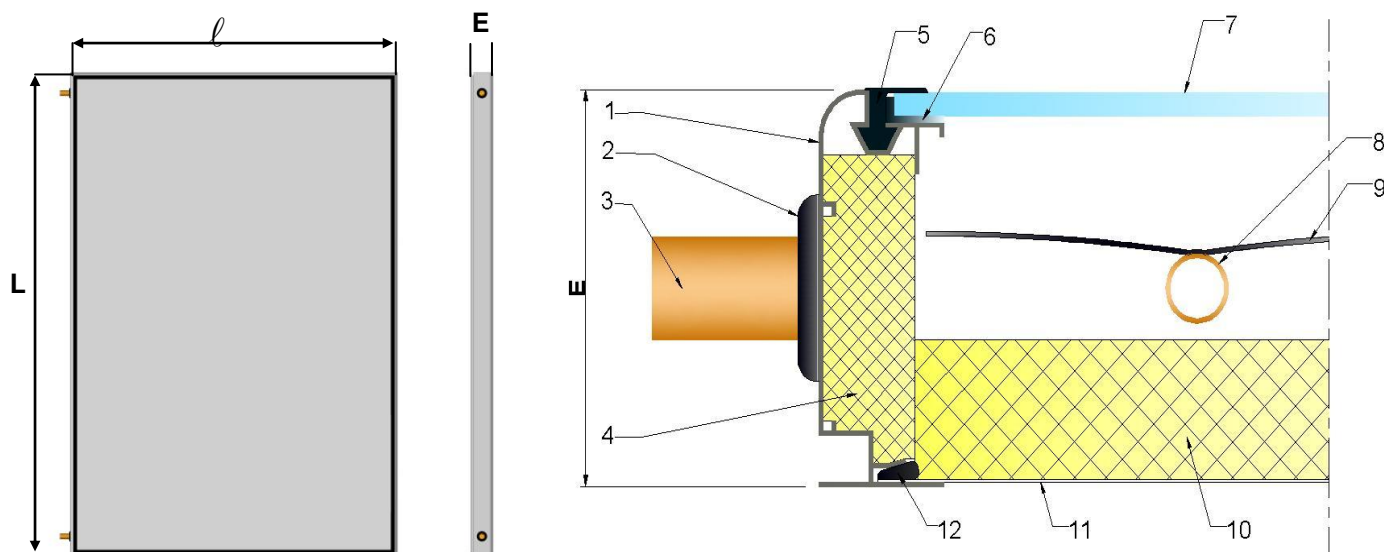




ΣΥΣΤΗΜΑΤΑ ΗΛΙΑΚΗΣ ΕΝΕΡΓΕΙΑΣ

TECHNICAL DATASHEET

Solar Collector Model : T150S



Technical Specifications

Product : Solar Collector
Model : SHE T150S

Dimensions

- Length (L) : 1592 mm
- Width (l) : 992 mm
- Height (E) : 95 mm
- Area: 1.58 m²
- Weight when empty : 33 Kg

Absorber

- Material : Copper / Aluminum
- Coating : Selective paint
- Absorber area: 1.45 m²
- Diameter of riser tubes : 10 mm
- Number of riser tubes : 8
- Diameter of header tubes : 22mm
- Volume of the fluid: 1200ML
- Maximum service pressure: 10 bar

Case

- Material of the frame: Aluminum profile
- Material of the back cover: Galvanized steel sheet
- Thickness of the back cover: 0.4 mm
- Waterproofness: Sealants - polyurethane glue

Cover

- Material: Solar Tempered Glass
- Characteristics: Prismatic, Low iron
- Thickness: 3.2mm

Insulation

	<u>On the back</u>	<u>On the sides</u>
Material :	Glasswool	Glasswool
Thickness:	40mm	20mm

- 1- Outside framing made of aluminum RAL9010.
- 2- Silicone rubber of high thermal resistance.
- 3- Header copper tube \varnothing 22.
- 4- Sides' insulation.
- 5- Waterproof by hybrid polyurethane glue .
- 6- Waterproof by hybrid polyurethane glue .
- 7- Solar Tempered low iron Glass.
- 8- Riser copper tube \varnothing 10.
- 9- Aluminum full plate selective absorber.
- 10- Back insulation.
- 11- The back cover of the collector.

Our T150S solar collectors are the result of continuous works of research and development and are designed by using advanced technology to guarantee high efficiency and perfect design.

The Solar collector T150S is mainly characterized by its :

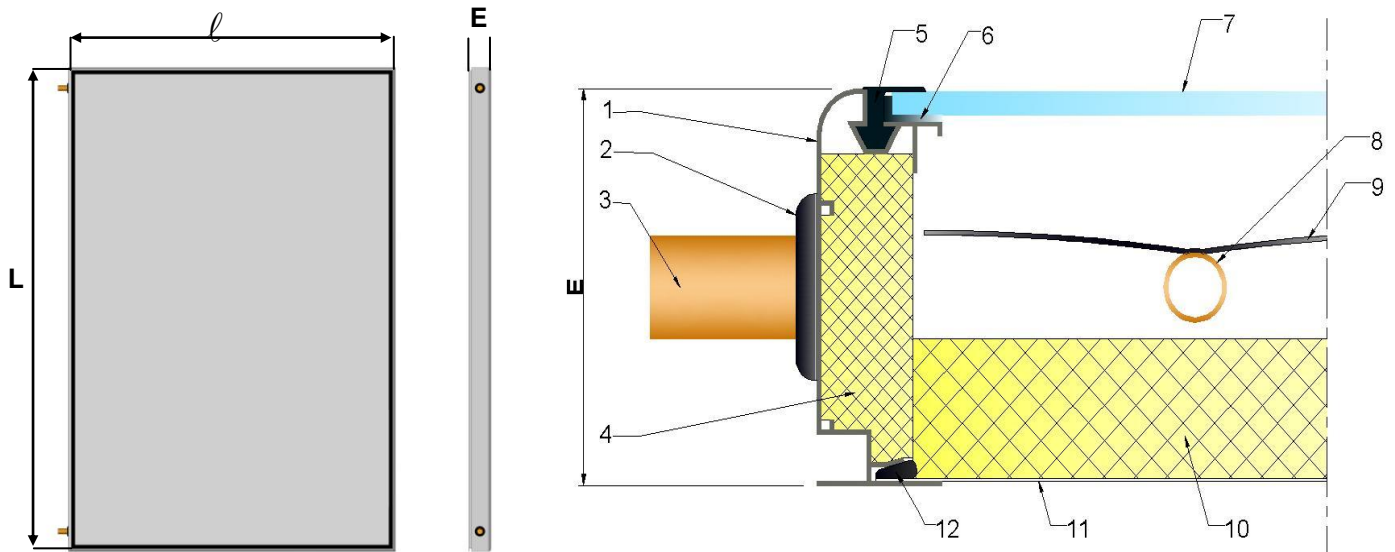
- Selective coating of the absorber's plate to guarantee high efficiency by maximizing energy collection and reducing emittance.
- Low iron Solar tempered glass with high optical efficiency to increase transmittance and with micro-prisms from the inside to reduce energy's waste due to wave's reflection. On the other hand, this glass is "Securit" in order to provide protection against brutal chocks and/or rude environmental conditions.
- Dual thermal insulation on the back and the sides to minimize heat losses.
- First quality sealants with high thermal resistance to accommodate differential expansion of the case and the cover when the collector is under stagnation temperature conditions.



ΣΥΣΤΗΜΑΤΑ ΗΛΙΑΚΗΣ ΕΝΕΡΓΕΙΑΣ

TECHNICAL DATASHEET-PLAN

Solar Collector Model : T200S



Technical Specifications

Product : Solar Collector
Model : SHE T200S

Dimensions

• Length (L) :	1992 mm
• Width (l) :	992 mm
• Height (E) :	95 mm
• Area:	1,98 m ²
• Weight when empty :	35 Kg

Absorber

• Material :	Copper / Aluminum
• Coating :	Blue Selective
• Area:	1.84 m ²
• Diameter of riser tubes :	10 mm
• Number of riser tubes :	8
• Diameter of header tubes :	22 mm
• Volume of the fluid:	1600ML
• Maximum service pressure:	10 bar

Case

• Material of the frame:	Aluminum profile
• Material of the back cover:	Galvanized steel sheet
• Thickness of the back cover:	0.4 mm
• Waterproofness :	Sealants - polyurethane glue

Cover

• Material:	Solar Tempered Glass
• Characteristics:	Prismatic, Low iron
• Thickness:	3.2mm

Insulation

	<u>On the back</u>	<u>On the sides</u>
Material :	Glasswool	Glasswool
Thickness:	40mm	20mm

- 1- Outside framing made of aluminum RAL9010.
- 2- Silicone rubber of high thermal resistance.
- 3- Header copper tube Ø 22.
- 4- Sides' insulation.
- 5- Waterproof by hybrid polyurethane glue .
- 6- Waterproof by hybrid polyurethane glue .
- 7- Solar Tempered low iron Glass.
- 8- Riser copper tube Ø 10.
- 9- Aluminum full plate selective absorber.
- 10- Back insulation.
- 11- The back cover of the collector.

Our T200S solar collectors are the result of continuous works of research and development and are designed by using advanced technology to guarantee high efficiency and perfect design.

The Solar collector T200S is mainly characterized by its :

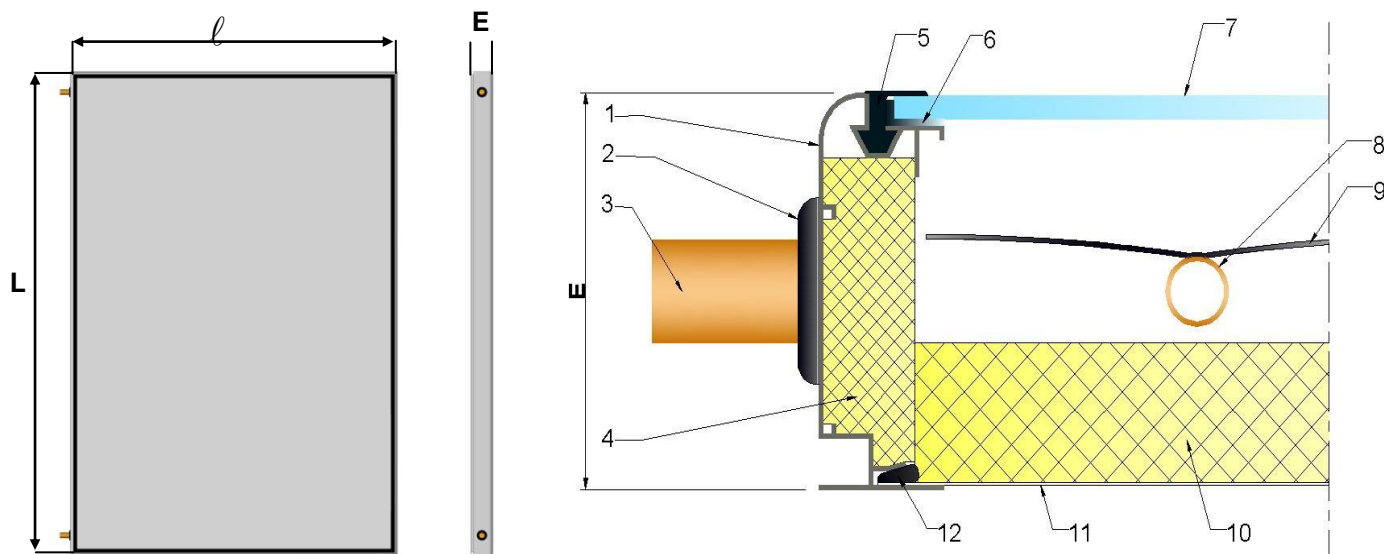
- Selective coating of the absorber's plate to guarantee high efficiency by maximizing energy collection and reducing emittance.
- Low iron Solar tempered glass with high optical efficiency to increase transmittance and with micro-prisms from the inside to reduce energy's waste due to wave's reflection. On the other hand, this glass is "Securit" in order to provide protection against brutal chocks and/or rude environmental conditions.
- Dual thermal insulation on the back and the sides to minimize heat losses.
- First quality sealants with high thermal resistance to accommodate differential expansion of the case and the cover when the collector is under stagnation temperature conditions.



ΣΥΣΤΗΜΑΤΑ ΗΛΙΑΚΗΣ ΕΝΕΡΓΕΙΑΣ

TECHNICAL DATASHEET-PLAN

Solar Collector Model : T230S



Technical Specifications

Product : Solar Collector
Model : SHE T230S

Dimensions

• Length (L) :	1877 mm
• Width (l) :	1265 mm
• Height (E) :	95 mm
• Area:	2.37 m ²
• Weight when empty :	40 Kg

Absorber

• Material :	Copper / Aluminum
• Coating :	Blue Selective
• Area:	2.23 m ²
• Diameter of riser tubes :	10 mm
• Number of riser tubes :	11
• Diameter of header tubes :	22 mm
• Volume of the fluid:	2049ml
• Maximum service pressure:	10 bar

Case

• Material of the frame:	Aluminum profile
• Material of the back cover:	Galvanized steel sheet
• Thickness of the back cover:	0.4 mm

Waterproofness : Sealants - polyurethane glue

Cover

• Material:	Solar Tempered Glass
• Characteristics:	Prismatic, Low iron
• Thickness:	3.2mm

Insulation

	<u>On the back</u>	<u>On the sides</u>
Material :	Glasswool	Glasswool
Thickness:	40mm	20mm

- 1- Outside framing made of aluminum RAL9010.
- 2- Silicone rubber of high thermal resistance.
- 3- Header copper tube Ø 22.
- 4- Sides' insulation.
- 5- Waterproof by hybrid polyurethane glue .
- 6- Waterproof by hybrid polyurethane glue .
- 7- Solar Tempered low iron Glass.
- 8- Riser copper tube Ø 10.
- 9- Aluminum full plate selective absorber.
- 10- Back insulation.
- 11- The back cover of the collector.

Our T230S solar collectors are the result of continuous works of research and development and are designed by using advanced technology to guarantee high efficiency and perfect design.

The Solar collector T230S is mainly characterized by its :

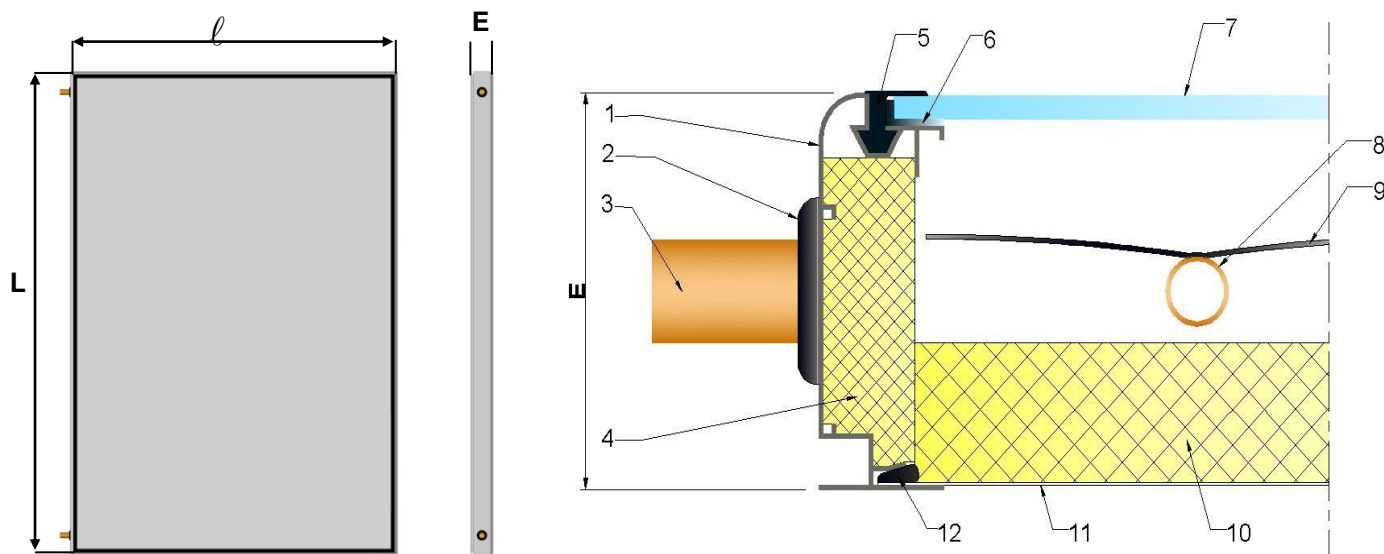
- Selective coating of the absorber's plate to guarantee high efficiency by maximizing energy collection and reducing emittance.
- Low iron Solar tempered glass with high optical efficiency to increase transmittance and with micro-prisms from the inside to reduce energy's waste due to wave's reflection. On the other hand, this glass is "Securit" in order to provide protection against brutal chocks and/or rude environmental conditions.
- Dual thermal insulation on the back and the sides to minimize heat losses.
- First quality sealants with high thermal resistance to accommodate differential expansion of the case and the cover when the collector is under stagnation temperature conditions.



ΣΥΣΤΗΜΑΤΑ ΗΛΙΑΚΗΣ ΕΝΕΡΓΕΙΑΣ

TECHNICAL DATASHEET-PLAN

Solar Collector Model : T250S



Technical Specifications

Product : Solar Collector
Model : SHE T250S

Dimensions

• Length (L) :	1992 mm
• Width (l) :	1265 mm
• Height (E) :	95 mm
• Area:	2.52 m ²
• Weight when empty :	45 Kg

Absorber

• Material :	Copper / Aluminum
• Coating :	Blue Selective
• Area:	2.38 m ²
• Diameter of riser tubes :	10 mm
• Number of riser tubes :	11
• Diameter of header tubes :	22 mm
• Volume of the fluid:	2130ML
• Maximum service pressure:	10 bar

Case

• Material of the frame:	Aluminum profile
• Material of the back cover:	Galvanized steel sheet
• Thickness of the back cover:	0.4 mm
• Waterproofness :	Sealants - polyurethane glue

Cover

• Material:	Solar Tempered Glass
• Characteristics:	Prismatic, Low iron
• Thickness:	3.2mm

Insulation

	<u>On the back</u>	<u>On the sides</u>
Material :	Glasswool	Glasswool
Thickness:	40mm	20mm

- 1- Outside framing made of aluminum RAL9010.
- 2- Silicone rubber of high thermal resistance.
- 3- Header copper tube Ø 22.
- 4- Sides' insulation.
- 5- Waterproof by hybrid polyurethane glue .
- 6- Waterproof by hybrid polyurethane glue .
- 7- Solar Tempered low iron Glass.
- 8- Riser copper tube Ø 10.
- 9- Aluminum full plate selective absorber.
- 10- Back insulation.
- 11- The back cover of the collector.

Our T250S solar collectors are the result of continuous works of research and development and are designed by using advanced technology to guarantee high efficiency and perfect design.

The Solar collector T250S is mainly characterized by its :

- Selective coating of the absorber's plate to guarantee high efficiency by maximizing energy collection and reducing emittance.
- Low iron Solar tempered glass with high optical efficiency to increase transmittance and with micro-prisms from the inside to reduce energy's waste due to wave's reflection. On the other hand, this glass is "Securit" in order to provide protection against brutal chocks and/or rude environmental conditions.
- Dual thermal insulation on the back and the sides to minimize heat losses.
- First quality sealants with high thermal resistance to accommodate differential expansion of the case and the cover when the collector is under stagnation temperature conditions.