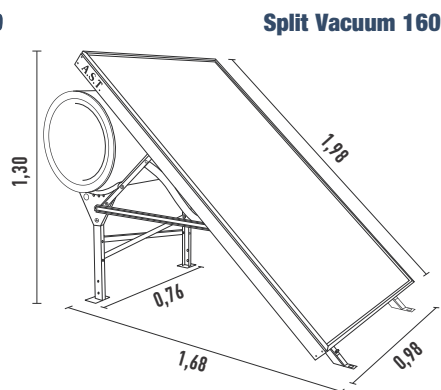
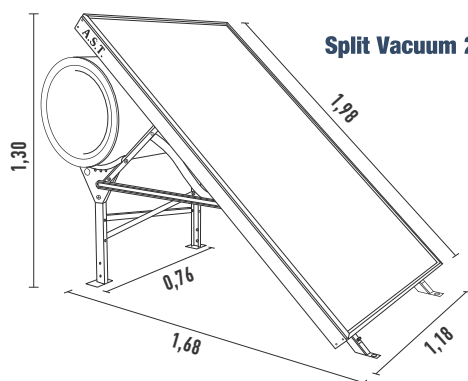


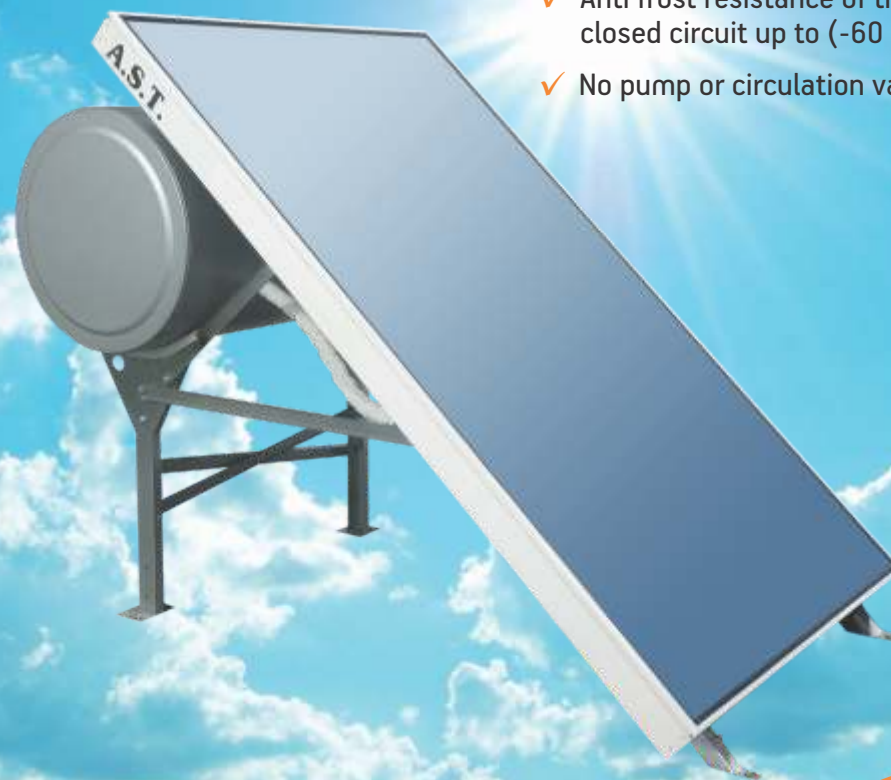
| Τύπος                 | Split Vacuum 160   | Split Vacuum 200    |
|-----------------------|--|---------------------|
| <b>Collector</b>      |  |                     |
| Total collector area  | 1,96 m <sup>2</sup>  | 2,34 m <sup>2</sup> |
| Absorber Type         | Full Plate   |                     |
| Fluid Pressure        | -1 bar   |                     |
| Heat Transfer Fluid   | Ethyl Alcohol  |                     |
| Frost Resistance      | -60 °C   |                     |
| <b>Tank</b>           |  |                     |
| Volume                | 152 lt   | 196 lt              |
| Body Material         | Steel DX51D Powder Coated / Stainless<br>Steel AISI 316L EN 1.4404 |                     |
| Electric back up      | 4 KW / 2 KW  |                     |
| Hydraulic Connections | 1/2" (inch)  |                     |
| Max Pressure          | 10 bar   |                     |
| Weight                | 90 kg  | 110 kg              |

### Dimensions



Vacuum technology and new aesthetics in the solar water heater

- ✓ No antifreeze refill needed
- ✓ Anti frost resistance of the closed circuit up to (-60 oC)
- ✓ No pump or circulation valve



# NEW Split Vacuum

**A.S.T.**  
SOLAR INDUSTRIES

## Design

**Split-Vacuum** is a solar water heater designed according to eco-design. The tank is located in the back of the collector.

## Vacuum

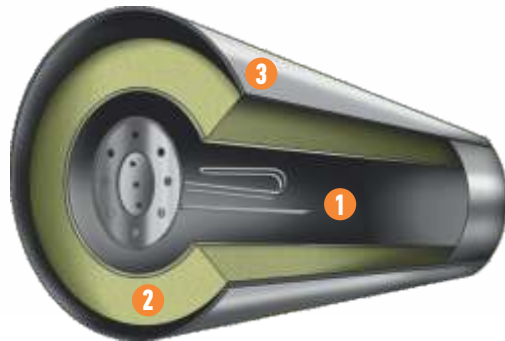
The **Split-Vacuum closed circuit** is in vacuum, achieving **high water heating speed** and **resistance to extreme freezing temperatures** (-60 OC for the collector).

## Mode

**Split-Vacuum** operates by **natural circulation** and **prevents reverse flow**. In the closed circuit of **Split-Vacuum** circulates ethyl alcohol, which heats the water during sunshine, and is isolated at night to prevent losses. No pump or circulation valve required.

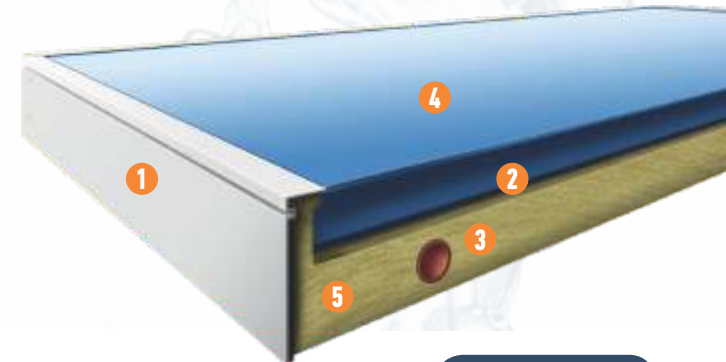
## Tank

- 1 Tank wall made of steel powder coated or stainless steel
- 2 Ecological polyurethane insulation 45mm thick and weighing 43kg / m<sup>3</sup>
- 3 Outer shell



## Collector

- 1 Aluminum Profile
- 2 Selective Surface
- 3 Copper Heat Exchanger
- 4 Security glass
- 5 Insulation



## AST INNOVATION

AST changes the way the water heaters operate **by placing the Heat Exchanger of the Split - Vacuum in the Flat Plate Collector.**

Based on our specialty in vacuum systems, we have developed a **Flat Plate Collector** that **incorporates the Heat Exchanger of the solar water heater.** This technology **allows the collector to be prefilled with the thermal fluid at the factory in vacuum condition ensuring superior performance without the use of circulation valves or pumps.** This means that the collector **comes ready for use, simplifying the installation process and reducing maintenance requirements.**

**Split - Vacuum** never needs refill or replacement of the antifreeze liquid.