

**ESTECH**  
**ENERGY**

# VTS -S COMPACT SYSTEM



ESTECH ENERGY LLC

## PRODUCT DESCRIPTION

A complete and economical **VTS** Solar water Heater system designed to accommodate your need for high efficiency.

It has been constructed with the help of 30 years of experience, technical know-how, high construction technology and tests that ensure your investment on such a Solar Water Heater.

They have been awarded with the **Solar Keymark** certificate and every separate part has been analytically tested and certified.

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## COLLECTOR TECHNICAL SPECIFICATION H80 - H81



**Collector:** HARP type copper collector

**Absorber:** Full face or strip aluminum selective surface (MS) 0,4mm

**Insulation cover:** Specially designed and undivided insulation cover for the protection of the collector against humidity and all weather conditions

**Glass panel/Thickness:** High permeability Clearlight Low Iron 3,2mm

**Welding:** Laser Welding

**Layout of the water circulation tubes:** Vertical

**Insulation thickness:** 30mm of mineral wool with 50Kg/m<sup>3</sup> density

**Laboratory test pressure:** 15 Bar

**Recommended installation angle:** Depending on the area of installation

**Absorption coefficient:** 95%

**Heat transmission coefficient:** 5%

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## TANK TECHNICAL SPECIFICATION



**A tank constructed and tested according to the EN 12976**

**Inner tank material:**

- a) Carbon Steel Shell with Protection Coating
- b) Stainless Steel

**Inner anti-corrosive protection:**

- a) Liquid smalt (DIN 4753-3), safe towards public health (DIN 51032 & EN 1388-2) and b) magnesium anode (EN 12438)

**Welding:** MAG

**Insulation:** Hard polyurethane 48kg/m<sup>3</sup> (DIN 53420), self-extinguishing (DIN 4102)

**Inner tank maximum operation pressure:** 10 Bar

**Inner tank test pressure:** 15 Bar (EN 12976-1, 4.1.6)

**Side sheeting (exchanger) maximum operation pressure:** 3,2 Bar

**Side sheeting (exchanger) test pressure:** 5 Bar (EN 12976-1/2006, 4.1.6) Inner

**tank maximum operation temperature:** 95 C°

**Electric resistor:** Optional, custom made

**Outer shell:** Pre-painted galvanized panel, 0,5mm (EN 10204/2.2) and optional aluminium or stainless steel

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## MOUNTING SYSTEM

It is constructed by heat galvanized panel and produced by modern CNC machines.

It was designed in such a way, so that it can be installed by using just a few screws/lug nuts and without having to use any welding. In this way, the installation is less expensive and time-consuming.



**We can provide a complete connection kit for the product you have chosen.**

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SYSTEM NAME	V.121.15.10	V.151.20.10	V.151.20.13	V.152.15.10
TANK TYPE	120L	150L	150L	150L
Net Tank Capacity (lt)	110	136	136	136
Collector Model	(1,5m <sup>2</sup> )	(2,0m <sup>2</sup> )	(2,5m <sup>2</sup> )	(1,5m <sup>2</sup> )
Number of Collectors in System	1	1	1	1

SYSTEM NAME	V.201.20.10	V.201.20.13
TANK TYPE	200L	200L
Net Tank Capacity (lt)	190	190
Collector Model	(2,0m <sup>2</sup> )	(2,5m <sup>2</sup> )
Number of Collectors in System	1	1

SYSTEM NAME	V.202.15.10	V.202.20.10	V.251.20.13	V.225.15.10	V.302.20.10
TANK TYPE	200L	200L	250L	250L	300L
Net Tank Capacity (lt)	190	190	230	230	276
Collector Model	(1,5m <sup>2</sup> )	(2,0m <sup>2</sup> )	(2,5m <sup>2</sup> )	(1,5m <sup>2</sup> )	(2,0m <sup>2</sup> )
Number of Collectors in System	2	2	1	2	2

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suppliers for  
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pumps



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promise to you, you  
always keep the promise  
to your customers



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pumps, THREE years  
warranty for Compres-  
sor and Condenser



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