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Installation – Step by Step

**STEP 1**

**Preparation**

**Prepare your Home** Installing a new water heater is the perfect time to examine your home’s plumbing system and make sure the system is up to current code standards. Verify that the structure can support the full weight of the SOLAV (approximately 120kg per unit). Ensure there is enough access space to the system for installation and maintenance.

**Sunlight Exposure**

**Orientation:** The performance of solar water heating systems in the Northern Hemisphere is optimal when the collector is mounted facing True South. Performance, however, suffers very little when the collector is oriented no more than 15° East or West of True South.

Tilt: Optimal annual efficiency is achieved by tilting the SOLAV solar collector at an angle that equals your latitude plus an additional 10°, but no less than 22.5° from the horizon. This tilt angle favors the lower winter sun when collector performance is at its lowest and minimizes overheating during the hottest summer months.

Shading: The collector should be un-shaded by any permanent obstructions between 09:00 and 17:00 on any day of the year.

**Water Pipes and Accessories:**

Install the SOLAV as close to the hot water taps as possible, using a minimal length of piping in order to reduce heat loss from the pipes. All pipes must be insulated. Solav Energy recommends using PP, PEX or PEX-Al-PEX pipes with a diameter of 20mm (preferably) or 16mm. Use approved compression fittings only. Never use fittings that require Soldering or Brazing as they may harm the SOLAV.

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**STEP 2**

**Installing the SOLAV**

2.1 Place the SOLAV’s base in a manner that the glazing is faced due true South.

Anchor the base to the structure or the floor safely (120 kg Gross per unit).

Ensure an obstacle free route for moving the SOLAV to its place. Using 2 people, carefully place the SOLAV on the base, glazing faced up and “THIS SIDE UP” arrows pointing upwards (Barcode should be on the top of the SOLAV).

**Warning:** Cover the SOLAV’s Glazing until installation is complete to avoid accumulation of hot air in the SOLAV body that may cause a risk of injury.

2.2 Connecting the Threads

**Threads:** Important note: The plastic threads in the SOLAV unit are easily damaged when threading metal parts. Therefore, plastic fittings have been provided for connecting the SOLAV to the existing mains. Only these items are approved for use. Installation of non-approved threaded fittings could risk the unit’s threads and will result in loss of warranty.

Make sure you have all the provided accessories:

- 2X PP Threaded Plug
- 2X PP Threaded Bushing

Additional accessories: PTFE sealing tape, and suitable connectors (¾“F) to the pipes used. Solav Energy recommends using PP, PEX, or PEX-Al-PEX pipes.

Wrap all threads with PTFE tape:

- Connect ¾"Mx¾"F PP Threaded Bushing to the bottom thread marked "INLET"
- Connect ¾"Mx¾"F PP Threaded Bushing to the top left thread marked "OUTLET"
- Connect ¾"M PP Threaded Plugs to the remaining top and bottom threads

As the SOLAV’s body is comprised of plastic, exposure to excessive heat (>95°C) can damage the SOLAV.

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Once full, close the inlet tap and connect Piping to the Hot Water Outlet

Open the hot water taps in the house, then open the cold water tap and allow remaining air bubbles to exit the system until a steady flow of water is achieved.

Close taps in the house, then check for leaks and repair if needed.

Remove all covers from the glazed screen

An air relief valve may also be added in order to drain the system from air without disassembly and to prevent bubble formation in the tap's stream of water. Fix the air relief valve vertically in a high point where air can be channeled out of the system.

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7. This warranty excludes any damage inflicted by vandalism or by animals such as dogs, monkeys, domestic animals, birds or any other creatures.

8. Under this warranty, no responsibility is accepted for any consequential loss or damage caused by any defect.

9. The repair or replacement, if any, shall be carried out by the Company or by its authorized dealer or representative within the reasonable time required for communication, processing the complaint, procurement of the component, transportation of material and appointment of an authorized person for examination & determination of remedial action to be taken to solve the problem. It is essential that the customer should grant access to the Company’s representative for examination of the solar water heating system in full and facilitate the repairs as and whenever convenient to the customer and the Company’s representative.

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Company Signature _______________ Date ______________

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</tr>
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</tr>
<tr>
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</tr>
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</tr>
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</tr>
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</tr>
<tr>
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<td>Plastic reducing nipple</td>
</tr>
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<td>1X ½” Pressure Relief Valve</td>
<td>Plastic pressure relief valve for exhaust</td>
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Solav – Solar Water Heater, 85L
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Installation Instruction and Use & Care Guide

Solav Energy www.solavenergy.com

Version 2.1
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<td>1X PP Reducing Nipple ¾&quot; X ½&quot;</td>
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Additional accessories: PTFE sealing tape, Valves (optional), and suitable connectors (¾"F) to the pipes used. Solav Energy recommends using PP, PEX, or PEX-Al-PEX pipes.

Wrap all threads with PTFE tape:

Connect ¾"Mx¾"F PP Threaded Bushing to the bottom thread marked "INLET".

Connect ¾"Mx¾"F PP Threaded Bushing to the top left thread marked "OUTLET".

Assemble and connect the Pressure Relief Valve, ensure that the Valve's exhaust is horizontal.

Connect Plug to Top Right Thread (Unmarked).

As the SOLAV's body is comprised of plastic, exposure to excessive heat (>95°C) can damage the SOLAV.

### 2.3 Connecting the Heating Rod

**Warning:** All and any electric work including installation and servicing must be executed by a licensed electrician in accordance to local codes and regulations.
**Warning!** Do not operate the rod unless it is submerged in water!

The SOLAV can be fitted with a heating rod as a heating backup.

**Heating Rod Specifications:**
P=1000 W  
v=230 V  
f=50 Hz  
IP67

Ensure that the SOLAV is drained of water.  
Ensure suitable voltage and frequency.  
Drill a Ø13mm hole concentric with the threads in the middle thread.  
Remove drilling debris.  
Wrap PTFE tape on the male thread of the rod (blue).

Insert rod into drilled hole and tighten the thread using a 27 mm spanner.

Ground the Rod in accordance with local codes and regulations.

Connect to electric switch, DO NOT TURN THE SWITCH ON.

Fill the SOLAV with water according to section 2.4.  
Check the rod only after the system has been filled with water.

**2.4 Connecting the Water Supply**

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Connect Piping to the Cold Water Inlet and fill the SOLAV with water.

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31. This warranty excludes any damage inflicted by vandalism or by animals such as dogs, monkeys, domestic animals, birds or any other creatures.

32. Under this warranty, no responsibility is accepted for any consequential loss or damage caused by any defect.

33. The repair or replacement, if any, shall be carried out by the Company or by its authorized dealer or representative within the reasonable time required for communication, processing the complaint, procurement of the component, transportation of material and appointment of an authorized person for examination & determination of remedial action to be taken to solve the problem. It is essential that the customer should grant access to the Company’s representative for examination of the solar water heating system in full and facilitate the repairs as and whenever convenient to the customer and the Company’s representative.

34. The Product is designed to withstand ambient temperatures no less than minus five degrees centigrade (-5°C).

35. This warranty in no case shall extend to payment of any monetary consideration or compensation.

36. This warranty automatically becomes void on expiry of the warranty period.

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