

Twin Solar System Manual

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1. Introduction

General

Many thanks for choosing our pre-insulated solar systems. To avoid any damage for the product, we strongly recommend to read the whole contents of this manual before you start the work, and follow the exact advices in these instructions .

Constructions must be carried out only by a professional. We will not accept any liability for damage done to persons or property resulting from undue handling or usage of this product.

The warranty of this product should be proved that the product was installed, checked and maintained exactly in accordance with instructions in this manual ,and only done by a professional .

Transportation and Stock

The pre-insulated solar pipes will be delivered coiled up and practically packed in carton boxes. During transportation and unpacking, please make sure that neither the insulation nor the tubes will be damaged. To avoid pressure marks on the insulation, please stock in a horizontal position.

2. Our Twin Solar System

Product Features and Descriptions

Our twin solar system is an easy-to-install pre-insulated tubing system for reducing the energy loss .It is specially designed for the solar hot water systems to save time, money while saving the environment .

The whole system is a product that a corrugated stainless steel pipe fully insulated and incorporates a two core sensor cable for ease of connection of the collector and control unit for the temperature sensors.



The stainless steel corrugated hose allows the connection from the collector to the pump unit without any joints. Some of the hose left from the pump unit can be connected to the tank directly using extra fittings.

The insulation of the hose is suitable for outdoor installation, as the EPDM closed cell material is high temperature, UV and weathering resistant.

The flow and return path of the solar hose are connected, and can separate as required.

3. Quick assembly technology (optional)

Assembly with the screw set





1. Cut the corrugated pipe at the desired length with a pipe cutter
2. Slide on a nut on the corrugated pipe and snap on circlip ring
3. Screw in the the double nipple
4. Form flange with the double nipple and two wrenches
5. Unscrew the double nipple
6. Insert the washer and connect with other fittings

Assembly with tool



1. Slide on a nut
2. Form flange with tool
3. Snap on the cir clip ring

4. Installation

Safety Precautions

- a. By working on roof , use suitable fall protection methods .
- b. The tubes should cut properly and neatly , in case any injury caused.
- c. Always use glasses while drilling .

Warnings :

- a. Make sure that the stainless steel pipe does not contact with acidic building materials , as it can cause corrosion and failure of the product !
- b. Do not bend the corrugated stainless steel tube more often than is necessary.

Solar Hose Connections

A . Connection with Collectors

Make flanges of the hose end using optional way 1 or way 2 mentioned above.

Connect the end of the pre-insulated hose to the end of the hose from collector



B. Connection with Pump Unit

Cut the flexible hose to length and make sure enough length for compressing the first convolution .

Leave the insulation long enough so that it reaches into the pump casing when connected .



Notes :

- a. Do not damage the sensor cable during the cutting of insulation .
- b. Ensure the flow and return pipe are connected correctly.

C. Connection with Storage Tank



5. Commissioning

When check the whole system connection, check all connections and ensure that it is tight enough and no leak occurred .

6. Maintenance

When maintaining the solar hose installation, check the connections for tightness and check the insulation for damage. Replace the damaged insulation as required , but ensure the sensor cable not damaged when cutting the insulation.

7. Accessories Identifications



1. Compression kit
2. Pipe cutter
3. Flange-make piston tool