



**INSTRUCTIONS BOOKLET  
FOR INSTALLATION, USE AND MAINTENANCE**

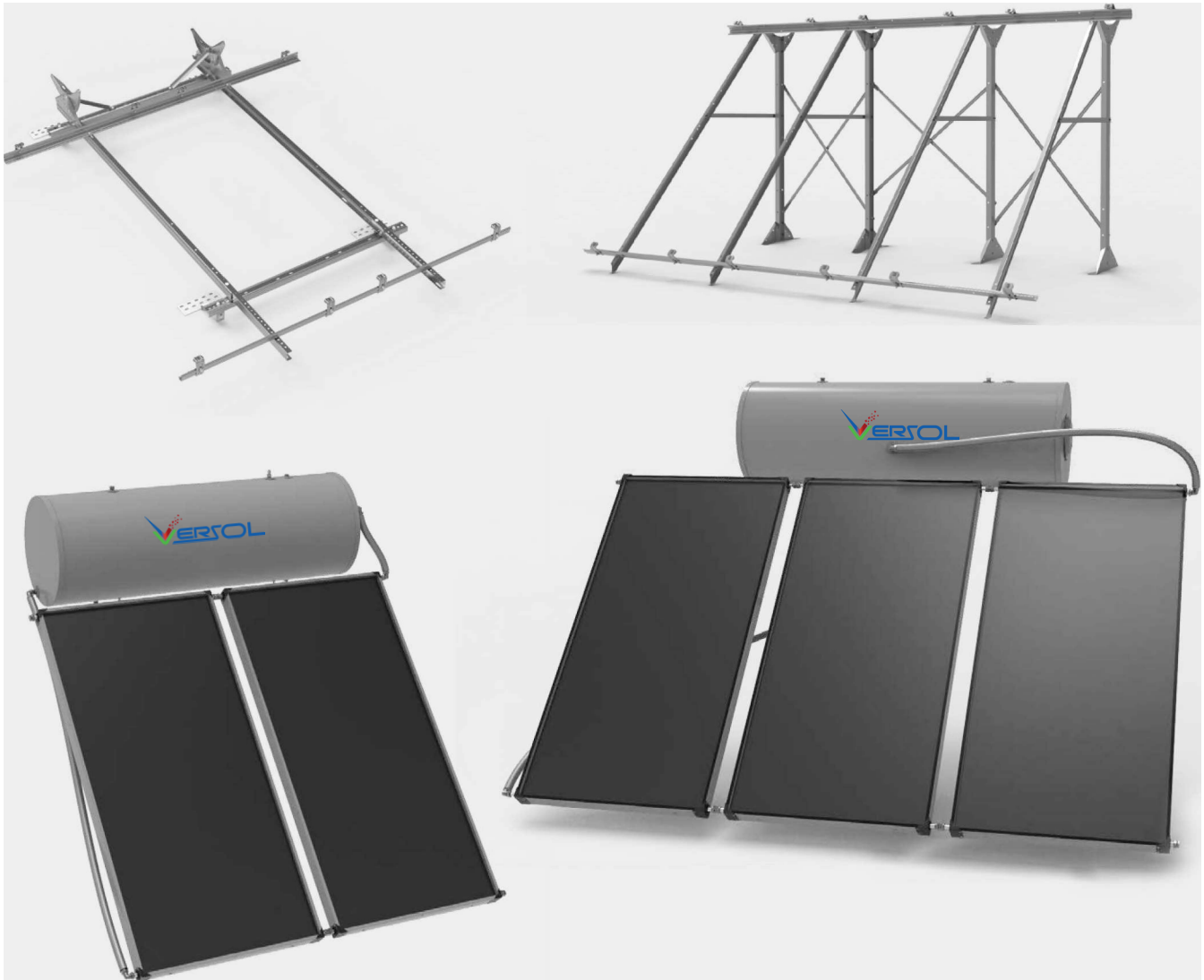
**VERSOSUN SOLAR WATER HEATER  
VERSOSUN(EU) SERIES**



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**INSTRUCTIONS BOOKLET**  
**FOR INSTALLATION, USE AND MAINTENANCE**

**VERSOSUN SOLAR WATER HEATER VERSOSUN(EU)  
SERIES**





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**INSTRUCTION MANUAL FOR MOUNTING STRUCTURE ASSEMBLY  
& SOLAR WATER HEATERS CONNECTION**

**MANUEL D'INSTRUCTIONS POUR L'ASSEMBLAGE DE LA STRUCTURE DE MONTAGE ET  
LE BRANCHEMENT DU CHAUFFE-EAU SOLAIRE THERMOSIPHON »**

**MANUAL DE INSTRUCCIONES PARA EL MONTAJE DE LA ESTRUCTURA DE SOPORTE Y LA  
CONEXION DEL CALENTADOR DE AGUA SOLAR TERMOSIFON"**

**MANUALE D'ISTRUZIONI DI MONTAGGIO  
& CONNESSIONE DEI SOLARI TERMICI**

**ΕΓΧΕΙΡΙΔΙΟ ΟΔΗΓΙΩΝ ΓΙΑ ΤΗΝ ΑΣΜΕΛΕΣΗ ΤΗΣ ΚΑΤΑΣΤΑΣΗΣ ΚΑΙ ΤΗΝ  
ΣΥΝΔΕΣΗ ΤΩΝ ΗΛΙΑΚΩΝ ΘΕΡΜΟΣΙΦΩΝ**

**MANUAL DE INSTRUCCIONES PARA MONTAJE DE LA ESTRUCTURA DE SOPORTE  
E LIGADO DE SISTEMAS SOLARES DE AQUECIMIENTO DE AGUA, TERMOSSIFONES**



Dear Customer,

Thank you for choosing a Versosun Solar Water Heater Versosun(Eu) Series by  
VERSOL GROUP.

In your interest and to maintain the highest level of performance and life of your  
appliance, we recommend that you follow the instructions contained in this booklet and  
have regular maintenance performed by qualified personnel.

We would like to remind you that failure to follow the instructions contained in this booklet  
may invalidate the guarantee

This unit should have maintenance regularly. The regular maintenance and cleaning will  
help the product stability, security, and long-term operation. Clean the dust and dirt  
inside the unit will also help to improve unit heat transfer efficiency and save energy.

If the unit shut down in long time due to some factors, please be sure to drain off the  
water in pipeline, to prevent rust or as the low temperature in winter may cause the pipe  
cracking and system running problem again.

With the constant progress of science and technology, product has constant update and  
optimization; please pay attention to the latest product information.

## GENERAL INSTALLATION GUIDELINES

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### ATTENTION!

The installation shall be done according to the respective local regulations that concern hydraulic and electrical installations.

The package removal shall be done at the installation site, so as to protect the items against scratches or other damages. Under no circumstances shall the solar panel/s stand on the connection tubes. Before the installation please make sure that you have removed the protective plastic cups from the tank and the panel/s. The liquid injection procedure shall not take place over solar radiation, so as to prevent the solar panel overheating. During the whole installation process (until the system is fulfilled) the solar panel/s shall remain covered. Always the tank shall be filled first (domestic water) and then the solar panel circuit (water with anti freeze - anti corrosion liquid).

### INSTALLATION POINT

Before installing the solar system please make sure you have chosen the right spot and surface that can withstand the system's weight. This spot shall never be shadowed by trees, buildings or other obstacles during the year, so that the solar panels will maintain their full exposure to solar radiation. The installation shall take place only over totally flat surfaces with substantial carrying capacity. Prior to install the system please make sure that the flat or tiled roof disposes sufficient carrying capacity in Statics terms and according to the maximum expected load at the installation site. If the installation site is in a region with extreme wind or snow load the system shall be examined by a certified person (e.g. special engineer).

### INSTALLATION SPACE REQUIREMENTS

Every side of the system shall be away about 1,5m from any other object so as to:

1. Maintain easy access to the solar panel/s for maintenance reasons.
2. Protect the solar panel/s and the support against strong winds over the corners and/or edges of the roof.
3. Be able to get rid off the snow.

### ORIENTATION – OPTIMAL INCLINATION – SHADING

A crucial factor for the system's best performance is the correct choice of the orientation and the inclination in combination with the place (city) and the time during which we aim for max gain. The solar system shall be oriented this way that the selective surface is towards the South when we are talking about the North hemisphere (and respectively towards the North when we are in the South hemisphere), in any case the solar panel/s shall always be facing the equator. Any divergence will affect the system's performance. Is you can't obtain the recommended orientation then the system's performance shall be amended with additional selective surface, after

a specific condition evaluation study is held. The solar radiation's angle of incidence is changing during the year and depending also on the installation site so for this reason the solar panel's inclination angle shall be as much as the latitude in the specific site. This is the correct inclination for the max energy reception in annual base.

### GENERAL PRECAUTIONS

1. Please keep the installation site clean and free of any other irrelevant items during the installation process.
2. Never allow irrelevant persons approach the installation site or the tools.
3. Use only the specific parts/accessories destined for each specific system. The use of other parts or inappropriate tools may cause injury or other damage.

### PERSONNEL CONDITIONS

1. The solar system's installation shall only be effected by certified installer (technician).
2. Always wear protective glasses, suitable working clothes, protective shoes and protective helmet.
3. In dangerous sites, inclined roofs and/or points of great height, there should be taken special protective precautions and special equipment.

## INSTRUCTIONS FOR INSTALLATION & MAINTENANCE OF SOLAR SYSTEMS

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INSTALLATION & MAINTENANCE MANUAL for the SOLAR SYSTEM, for better performance, safe operation, longer life-time and economy.

### A. INTRODUCTION

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The solar tank of our company, has been designed according to the high efficiency, the mechanical strength, the easy installation and the longer life-time. Each part of the tank, has been constructed with the best materials and in accordance to the international standards, in order to ensure the durability of your investment. The tank's pioneer design obtains a high degree of efficiency, in all weather conditions. It is very important, the solar tank, to be combined with the correct collectors and with a base, that has stability and mechanical strength. In this way, the solar tank and the collectors have the best support.

### Safety Instructions

1. All hydraulic connections must have the most suitable sealant.
2. Only registered electricians must connect the heating element.
3. Before supplying electrical power to the heating

element, first, fill the solar tank with water and purge from a spring of hot water.

4. The solar tank must not operate with water only to the mantle (main tank must not be empty).
5. A pressure relief device of 10 bar must be installed at the cold water inlet of the net, unless it is incorporated in the appliance.
6. A discharge pipe connected to the pressure-relief device is to be installed in a continuously downward direction and in a frost-free environment.
7. Water may drip from the discharge pipe of pressurere relief device. This water must be collected.
8. The pressure-relief device is to be operated regularly to remove lime deposits and to verify that it is not blocked.
9. A mixing valve must always be positioned at the outlet of the hot water of the net, in order to avoid any risk of burn, because of the high temperature of the water. At the closed circuit, a safety valve of 2,5 bars should be done.
10. **CAUTION:** The filling/discharge of the tank must not be done, under solar radiation. Otherwise, the collectors must be covered with special covers, in order to be protected against the sun.
11. The antifreeze fluid, should be added in the closed circuit, with a percentage according to the following table. It is important to be diluted in the water first, and then added in the circuit.

## B. FILLING / DISCHARGE OF SOLAR SYSTEM

**For the filling / discharge of the solar system, follow the instructions below:**

**Filling:** The main tank must, ALWAYS, be filled first, and then the closed circuit.

**Discharge:** First, empty the closed circuit and then the main tank.

### RATIO BETWEEN ANTIFREEZE FLUID AND WATER FOR SEVERAL LOW TEMPERATURES

| Antifreeze in weight % | Protection up to (°C) |
|------------------------|-----------------------|
| 20                     | -3                    |
| 40                     | -6                    |
| 50                     | -10                   |
| 60                     | -13                   |
| 80                     | -20                   |
| 90                     | -25                   |
| 100                    | -32                   |

*For regions with temperature always significantly over 0° the suggested anti corrosion quantity is 1Lt for all the available tank's models.*

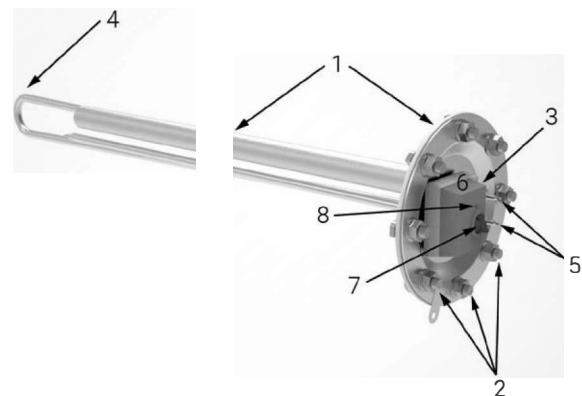
## 1. ELECTRICAL HEATING ELEMENT

### 1.1 GENERAL

The solar tank has an electrical heating element, only after customer's request. The electrical heating element can be applied, only if it is allowed from the country's laws and from the environment of the installation place. When allowed, heating element must respect local limitation of power related to volume of the tank. The heating element is installed at the tank's flange, together with the safety thermostat. The last one is set from the factory at 60°C. At the same flange (with or without heating element) the magnesium anode, is also placed.

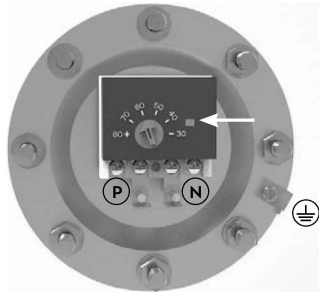
1. The devices are in accordance with standards EN60335-1 and EN60335-2-21.
2. All electrical connections must be made from registered staff.
3. Even if the heating element is not connected to the power supply, the ground cable must always be connected to the ground or to the base.
4. Do not ever adjust the temperature of the thermostat over 75°C.
5. Do not ever switch on the electrical heating element with the tank empty; the damage will be large. In this case, the guarantee of the company is not valid.
6. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

### 1.2 PARTS OF ELECTRICAL HEATING ELEMENT – THERMOSTAT



- [1] Flange of the heating unit and magnesium bar
- [2] Flange screws holes
- [3] Earthing terminal
- [4] Thermostat connection to the heating unit (factory setting)
- [5] Terminals
- [6] Thermostat
- [7] Temperature regulator
- [8] Overheating safety

- (P)** PHASE
- (⊕)** GROUND
- (N)** NEUTRAL



### CONNECTION OF THE ELECTRICAL HEATING ELEMENT WITH THE THERMOSTAT

Switch off the main power supply. Take off the cover, and check if the nuts of the terminals (that connect the heating element with the thermostat) are well tight. Install the supply cord and connect according to the electrical connection's diagram.

### 1.3 MAGNESIUM ANODE REPLACEMENT

Switch off the main power supply and empty the water from the tank. Take off the cover of the heating element and pull out carefully the thermostat. Take off the flange and remove (unscrew) the magnesium anode. Place the new anode and by following the opposite process, restore the tank in operation.

## 2. LIGHTNING PROTECTION

The thermal consequences of lightning currents are considered negligible (Annex E, paragraph E 5.10, standard EN 12976-2). Mechanical loads to the components of the system, because of the lightning loads, are considered to be negligible and they do not affect to their resistance and stability (Annex E, paragraph E 5.11, standard EN 12976-2). Thermal solar system is manufactured sufficiently and is capable of being connected to the present lightning protection to the roof of a building, in order to be protected against any kind of damage, because of the lightning. Additionally, to be mentioned that solar system is thermosiphon and its heating element is supplied from the central electrical power supply of the building. Furthermore, it is foreseen to have always the possibility to connect the heating element of the tank with the central grounding of the building.

### CAUTION:

Solar system has to be installed and operate on the same day. If for any reasons makes such fact impossible, you should follow the procedures below:

- You should not connect the collectors with the tank (closed circuit)
- You should not connect the tank with the supplies in-out (open circuit).
- Collectors should be completely covered (black out) during the period which shall not be functional. Collectors caps (plastic) should not be removed before the collector be connected with the tank, in order to avoid dust or other materials enter in the circuits (open-closed).
- Do not connect the electric element (if existing on the device)
- For the period solar system shall be installed but won't be functional, especially in areas with immense solar radiation and high temperatures, is recommended to periodically check the caps conditions (of the collectors & the tank) and the collector covers, for verify eventual damages and their replacement if it's required
- Before make operative the solar system is suggested to clean the tank (open-close circuit) and the pipes of the collectors.

Necessary system cleaning before connection and first operation. Before filling the solar system with water, you must first completely wash out the closed circuit of the tank and the same is suggested for the pipes of the collectors. Is recommended also the washing of the open circuit before the use. Aggregates can affect negatively the efficiency of the system.

### WATER SPECIFICATIONS TABLE

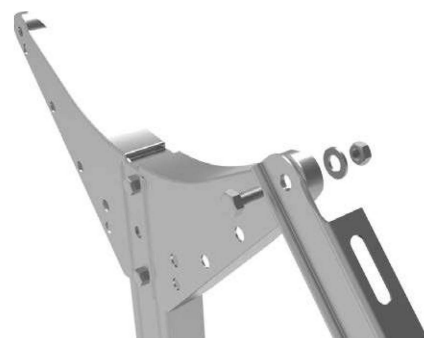
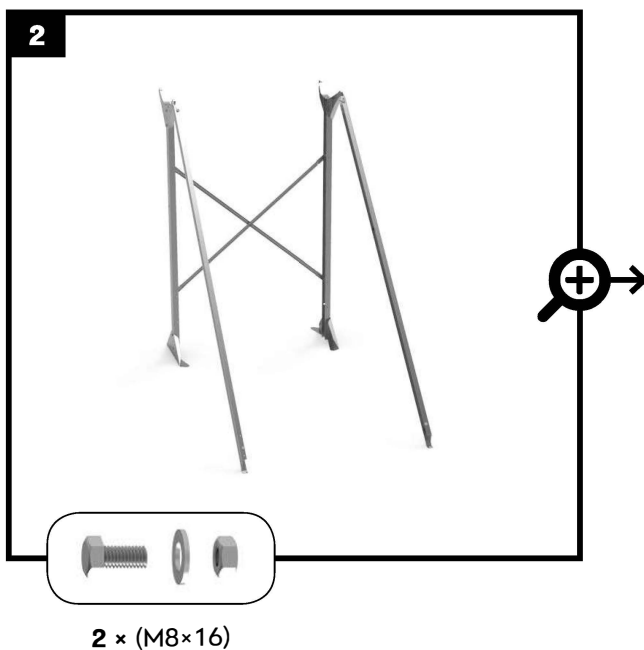
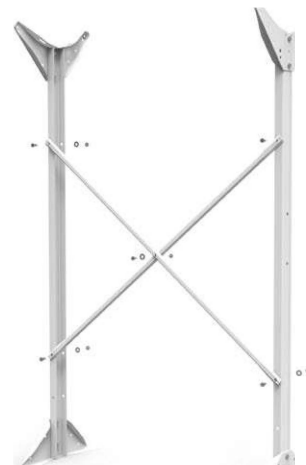
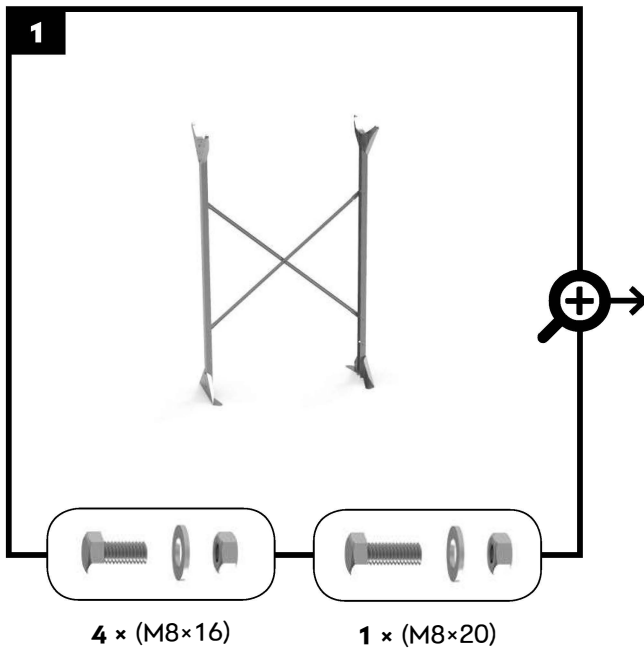
| ELEMENT        | PRICES            |
|----------------|-------------------|
| pH             | 7-9               |
| Total hardness | 6-15° dH          |
| Chlorides      | <100 mg / l       |
| Free chlorine  | <0.5 mg / l       |
| Sulphates      | <80 mg / l        |
| Conductance    | <650 mS / cm 25°C |

# DELTA (1)

**EN** Mounting structure DELTA for one collector.

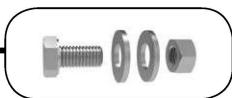
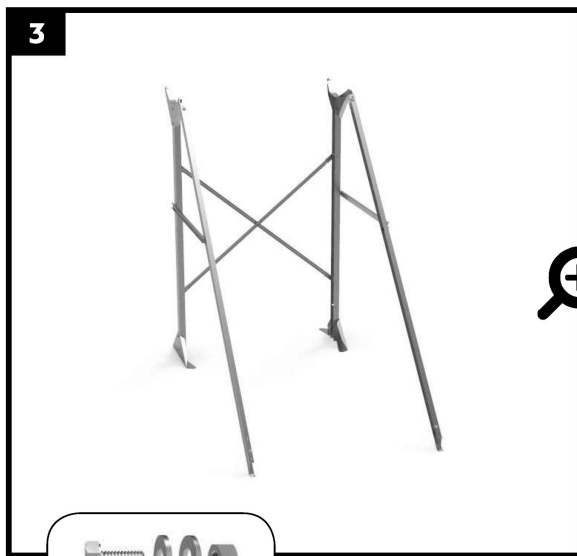
**FR** Modèle DELTA de structure de montage, pour un capteur.

**ES** Modelo DELTA de estructura de soporte, para un colector.

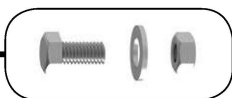
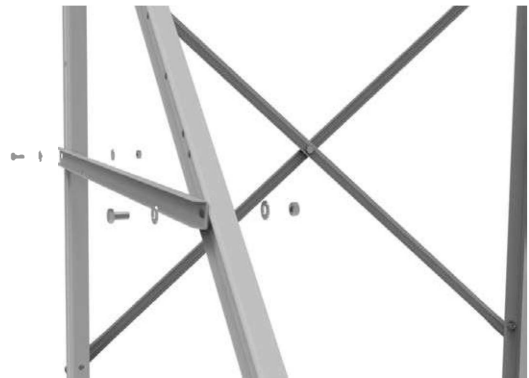


**IT** Struttura tipo DELTA per un collettore.  
**GR** Βάση τύπου DELTA για ένα συλλέκτη.

**PT** Estrutura de suporte DELTA para um coletor.



4 x (M8x16)



4 x (M8x16)



4 x M8

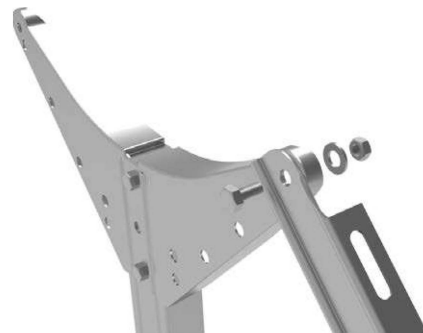
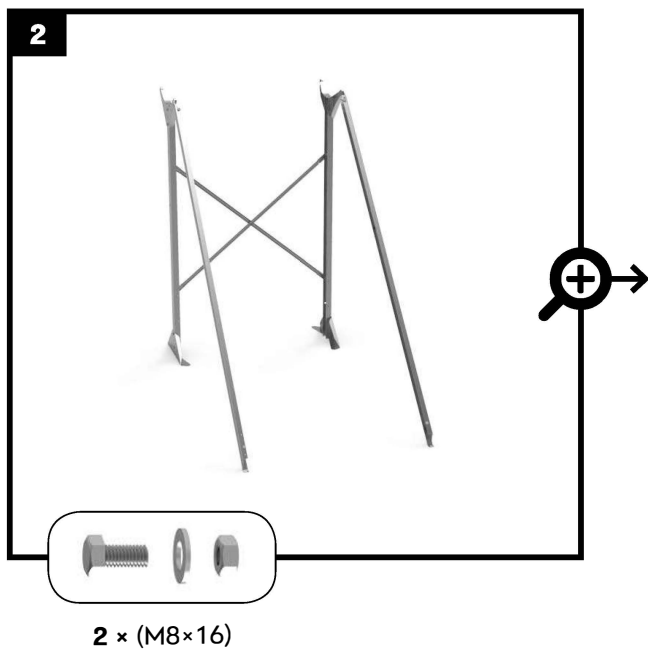
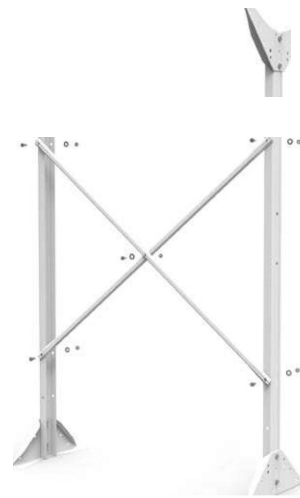
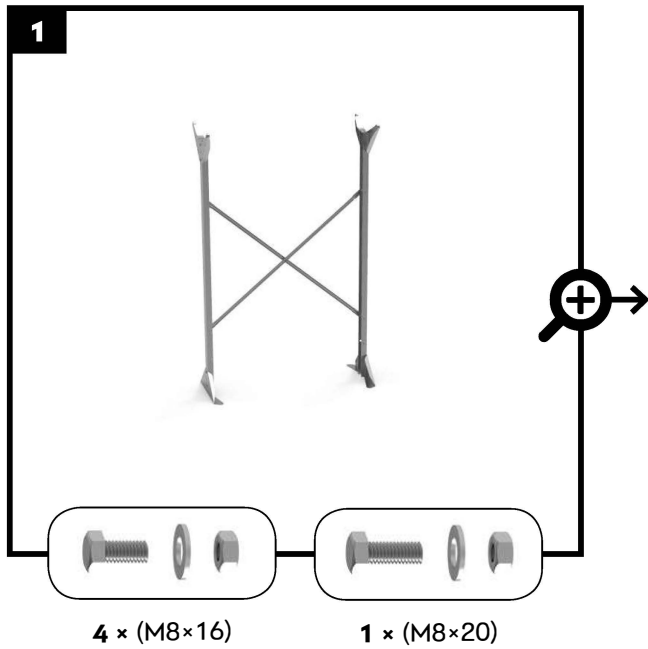


## DELTA (2)

**EN** Mounting structure DELTA for two collectors.

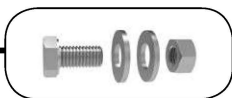
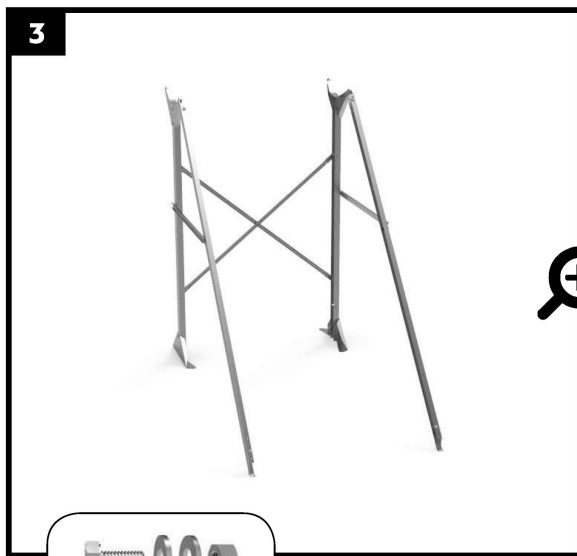
**FR** Modèle DELTA de structure de montage, pour deux capteurs.

**ES** Modelo DELTA de estructura de soporte, para dos colectores.

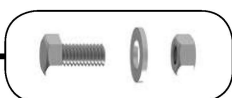
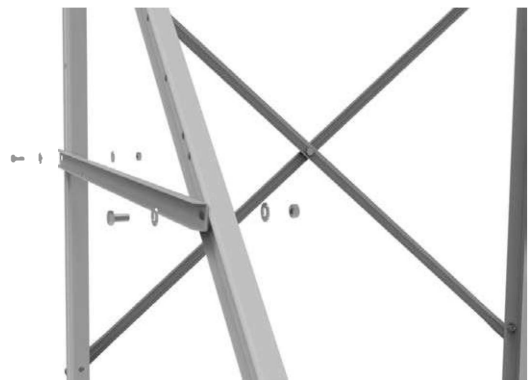


**IT** Struttura tipo DELTA per due collettori.  
**GR** Βάση τύπου DELTA για δύο συλλέκτες.

**PT** Estrutura de suporte DELTA  
para dois coletores.



4 x (M8x16)



4 x (M8x16)

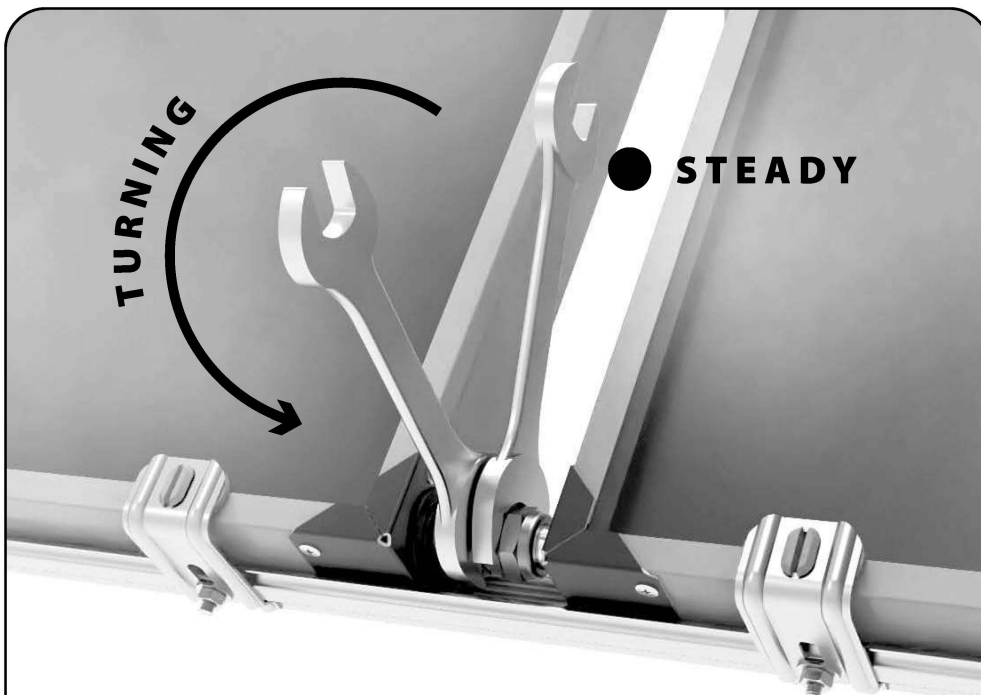


8 x M8

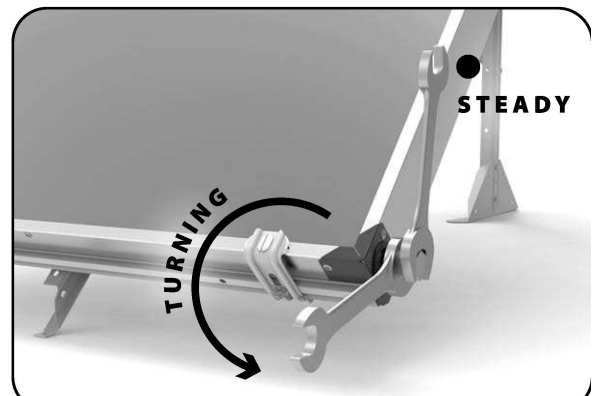


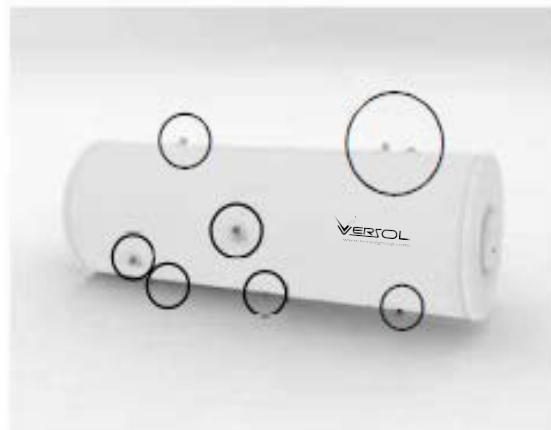
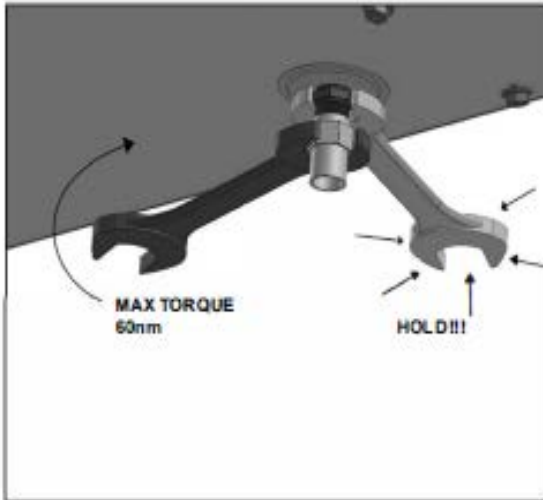
# TIGHTEN INSTRUCTIONS







- EN** Appropriate way to tighten hydraulic components.
- FR** Moyen approprié pour serrer les composants hydrauliques.
- ES** Forma adecuada de apriete de componentes hidráulicos.
- IT** Adeguato modo di serraggio componenti idraulici.
- GR** Ενδεικτικός τρόπος σύσφιξης υδραυλικών εξαρτημάτων.
- PT** Maneira apropriada de apertar os componentes hidráulicos.



MAX TORQUE  
60nm





- GR ΟΡΘΟΣ ΤΡΟΠΟΣ ΤΟΠΟΘΕΤΗΣΗΣ ΑΝΟΞΕΙΑΩΤΗΣ ΣΩΛΗΝΑΣ ΣΕ ΡΑΚΟΡ ΜΗΧΑΝΙΚΗΣ ΣΥΣΦΙΞΗΣ ΚΑΤΑ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ ΤΟΥ ΗΛΙΑΚΟΥ ΘΕΡΜΟΣΙΦΩΝΑ** 
- EN CORRECT WAY TO INSTALL STAINLESS STEEL PIPE TO MECHANICAL TIGHTENING FITTING DURING SETUP OF SOLAR WATER HEATER.** 
- FR FAÇON CORRECTE D'INSTALLER LE TUYAU EN ACIER INOXYDABLE DANS LE RACCORD DE SERRAGE MÉCANIQUE LORS DU MONTAGE DU CHAUFFE-EAU SOLAIRE.** 
- ES FORMA CORRECTA DE INSTALAR TUBO DE ACERO INOXIDABLE EN ACCESORIOS DE APRIETE MECÁNICO DURANTE EL MONTAJE DEL CALENTADOR DE AGUA SOLAR.** 
- IT MODALITÀ CORRETTA DI INSTALLAZIONE DEL TUBO IN ACCIAIO INOX NEL RACCORDO DI SERRAGGIO MECCANICO DURANTE L'INSTALLAZIONE DEL SOLARE TERMICO** 
- PT FORMA CORRETA DE LIGAÇÃO DO TUBO DE AÇO INOXIDÁVEL COM O CASQUILHO DE APERTO MECÂNICO DURANTE A INSTALAÇÃO DO TERMOSSIFÃO SOLAR** 

**GR** ΠΑΝΤΑ ΑΦΗΝΟΥΜΕ ΜΙΑ ΣΠΕΙΡΑ- ΠΡΟΕΞΟΧΗ (Σχημά1) ΑΝΑΜΕΣΑ ΣΤΟ ΔΑΧΤΥΛΙΔΙ ΚΑΙ ΤΟ ΚΥΡΙΟ ΣΩΜΑ ΤΟΥ ΡΑΚΟΡ.

**EN** ALWAYS LEAVE A SPIRAL EXCEED (Figure 1) BETWEEN THE RING AND THE MAIN BODY OF THE FITTING.

**FR** LAISSER TOUJOURS UNE SPIRE LIBRE (Figure 1) ENTRE LA BAGUE ET LE CORPS PRINCIPAL DU RACCORD.

**ES** SIEMPRE DEJE UNA ESPIRAL LIBRE (Figura 1) ENTRE EL ANILLO Y EL CUERPO PRINCIPAL DEL ACCESORIO.

**IT** LASCIARE SEMPRE UNA SPIRALE - PROIEZIONE (FIGURA 1) TRA L'ANELLO E IL CORPO PRINCIPALE DEL RACCORDO.

**PT** DEIXAR SEMPRE UMA RANHURA LIVRE (FIGURA 1) ENTRE O ANEL E O CORPO PRINCIPAL DO CASQUILHO.

**GR** Η ΠΡΟΕΞΟΧΗ ΑΥΤΗ ΚΑΤΑ ΤΗΝ ΣΥΣΦΙΞΗ ΘΑ ΔΗΜΙΟΥΡΓΗΣΕΙ ΦΛΑΝΤΖΑ ΣΤΕΓΑΝΟΠΟΙΗΣΗΣ

**EN** THIS FREE SPIRAL DURING TIGHTENING WILL CREATE A SEALING FLANGE.

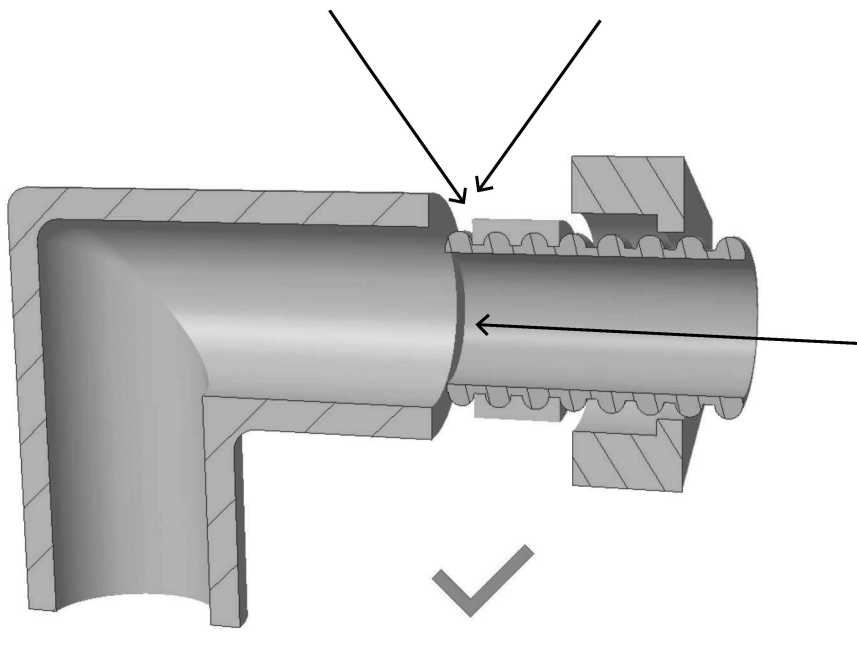
**FR** CETTE SPIRE LIBRE PENDANT LE SERRAGE CRÉERA UNE BRIDE D'ÉTANCHÉITÉ.

**ES** ESTA ESPIRAL LIBRE DURANTE EL APRIETE CREARÁ UNA BRIDA DE SELLADO.

**IT** LA SPIRALE - PROIEZIONE DURANTE IL SERRAGGIO CREA UNA FLANGIA DI TENUTA.

**PT** A RANHURA LIVRE, QUANDO O CASQUILHO FOR APERTADO CRIA IMPERMEABILIDADE.

ΣΧΗΜΑ 1  
FIGURE 1  
FIGURA 1



**GR** Η ΣΩΛΗΝΑ ΠΡΕΠΕΙ ΝΑ ΚΟΒΕΤΑΙ ΕΥΘΕΙΑ ( ΣΧΗΜΑ 1) ΑΝΑΜΕΣΑ ΣΤΗΝ ΕΣΟΧΗ ΚΑΙ ΣΕ ΚΑΜΙΑ ΠΕΡΙΠΤΩΣΗ ΠΛΑΓΙΑ.

**EN** THE PIPE MUST BE CUT STRAIGHT (FIGURE 1) IN THE GAP, AND IN ANY CASE IN DIAGONAL.

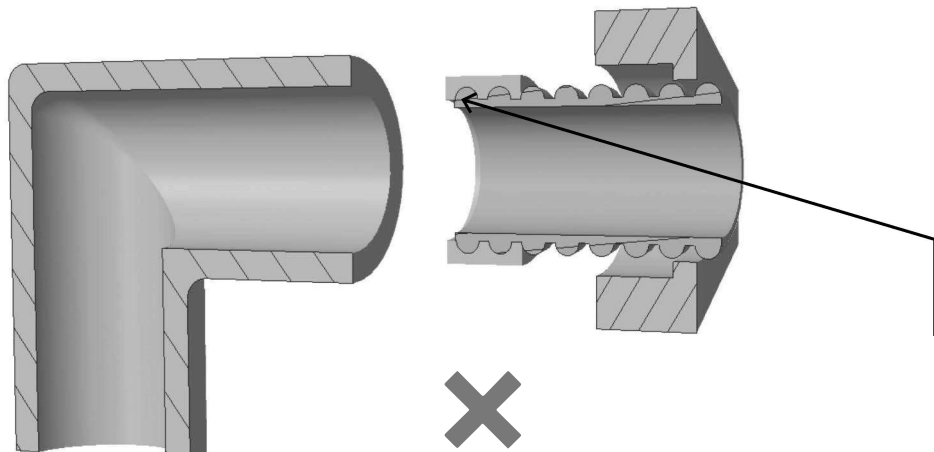
**FR** LE TUYAU DOIT ÊTRE COUPE DROIT (FIGURE 1) DANS L'INTERVALLE, ET DANS TOUS LES CAS, PAS EN DIAGONAL.

**ES** LA TUBERÍA DEBE CORTARSE RECTA (FIGURA 1) EN EL INTERVALO, Y EN TODOS LOS CASOS, NO DIAGONALMENTE.

**IT** IL TUBO DEVE ESSERE TAGLIATO DRITTO (FIGURA 1) NEL LOCALE E MAI IN DIAGONALE.

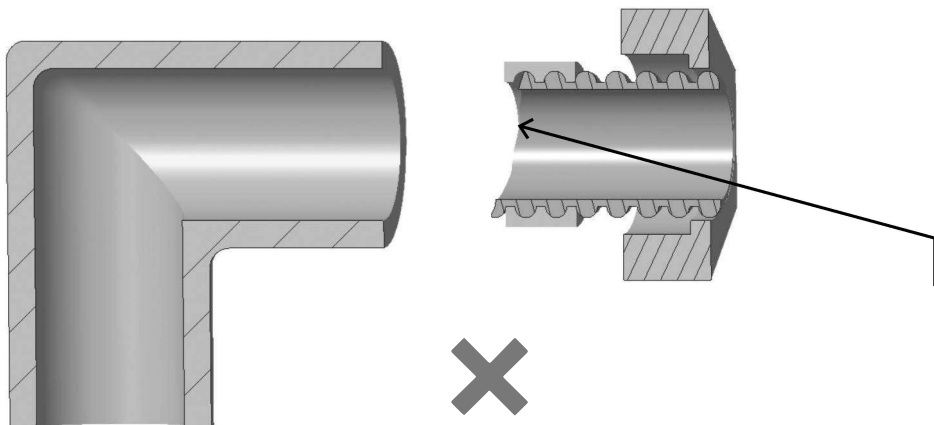
**PT** O TUBO DEVE SER CORTADO A DIREITO (FIGURA 1) ENTRE AS RANHURAS E NUNCA NA DIAGONAL.

ΣΧΗΜΑ 2  
FIGURE 2  
FIGURA 2



- GR** ΠΟΤΕ ΔΕ ΤΟΠΟΘΕΤΟΥΜΕ ΤΟ ΔΑΧΤΥΛΙΔΙ ΤΟΥ ΡΑΚΟΡ ΕΤΣΙ ΩΣΤΕ ΝΑ ΚΑΛΥΠΤΕΙ ΤΗΝ ΤΕΛΕΥΤΑΙΑ ΠΡΟΕΞΟΧΗ
- EN** NEVER INSTALL THE FITTING RING A WAY THAT WOULD COVER THE GAP
- FR** NE JAMAIS INSTALLER LA BAGUE DE RACCORD D'UNE MANIÈRE QUI COUVRIerait L'INTERVALLE.
- ES** NUNCA INSTALE EL ANILLO DE MONTAJE PARA CUBRIR EL ÚLTIMO INTERVALO.
- IT** NON INSTALLARE MAI L'ANELLO DI RACCORDO CHE COPRI L'ULTIMA PROIEZIONE.
- IT** NUNCA SE DEVE INSTALAR O ANEL DE LIGAÇÃO DO CASQUILHO DE FORMA A TAPAR A ÚLTIMA RANHURA.

ΣΧΗΜΑ 3  
FIGURE 3  
FIGURA 3



- GR** ΠΟΤΕ ΔΕ ΚΟΒΟΥΜΕ ΤΗΝ ΣΩΛΗΝΑ ΠΛΑΓΙΑ ( ΣΧΗΜΑ3)
- EN** NEVER CUT THE TUBE IN DIAGONAL (FIGURE 3).
- FR** NE JAMAIS COUPER LE TUBE EN GIAGONAL (FIGURE 3).
- ES** NUNCA CORTE EL TUBO DIAGONALMENTE (FIGURA 3).
- IT** NON TAGLIARE MAI IL TUBO IN DIAGONALE (FIGURA 3).
- PT** O TUBO NUNCA DEVE SER CORTADO NA DIAGONAL (FIGURA3).

- GR** Η ΠΕΡΙΣΤΡΟΦΙΚΗ ΔΥΝΑΜΗ ( ΡΟΠΗ ) ΠΟΥ ΘΑ ΠΡΕΠΕΙ ΝΑ ΑΣΚΗΘΕΙ ΓΙΑ ΤΗΝ ΕΝΩΣΗ ΤΟΥ ΡΑΚΟΡ ΜΕ ΤΗΝ ΣΩΛΗΝΑ ΠΡΕΠΕΙ ΝΑ ΕΙΝΑΙ 60N/m
- EN** THE ROTARY POWER (TORQUE) TO BE EXERCISED TO JOIN THE FITTING WITH THE PIPE SHOULD BE 60 N/m.
- FR** LA PUISSANCE DE ROTATION (COUPLE) EXERCÉE POUR JOINDRE LE RACCORD AVEC LE TUYAU DOIT ÊTRE DE 60 N/m.
- ES** LA POTENCIA ROTATIVA (PAR) QUE EJERCER PARA UNIR EL ACCESORIO CON LA MANGUERA DEBE SER DE 60 N/m.
- IT** LA POTENZA DI ROTAZIONE (COPPIA) CHE DEVE ESSERE ESERCITATA PER UNIRE IL RACCORDO CON IL TUBO DEVE ESSERE 60 N/m
- PT** A POTÊNCIA ROTATIVA (PAR) QUE DEVE SER USADA PARA UNIR O TUBO AO CASQUILHO DEVE SER DE 6 N/M.

# ECO-F

**EN** Connection System ECO-F one collector.

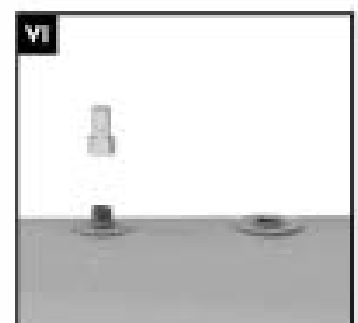
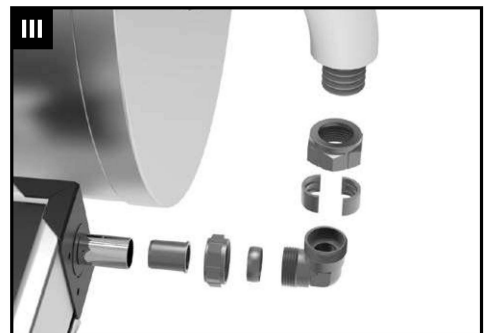
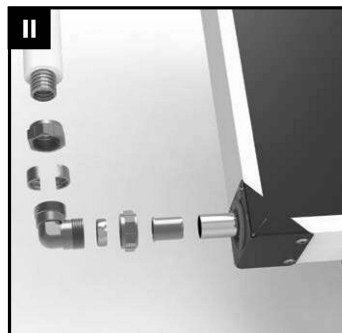
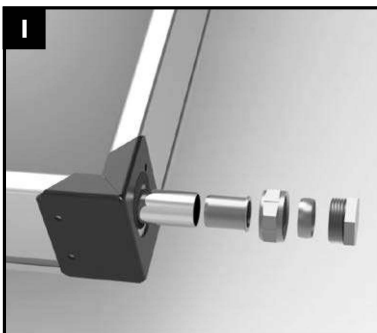
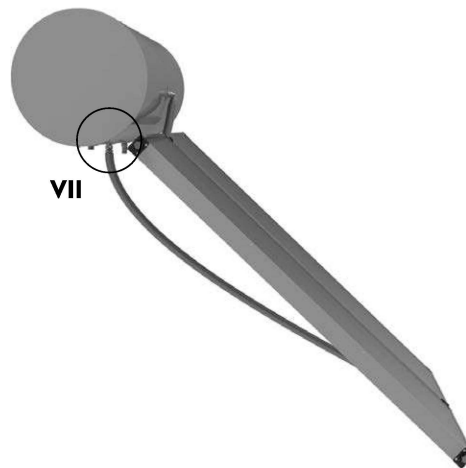
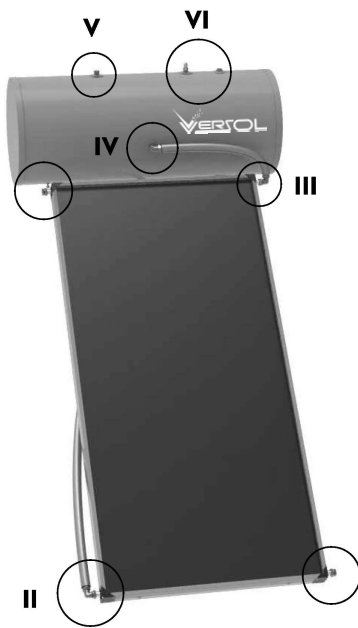
**FR** Montage du système ECO-F avec un capteur.

**ES** Montaje del sistema ECO-F con un colector.

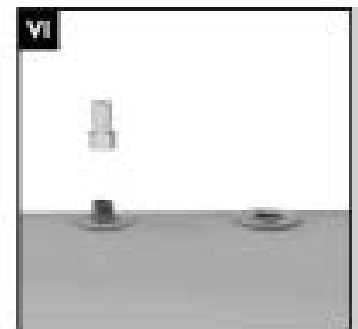
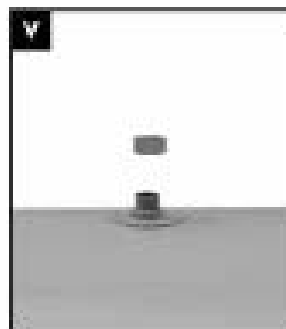
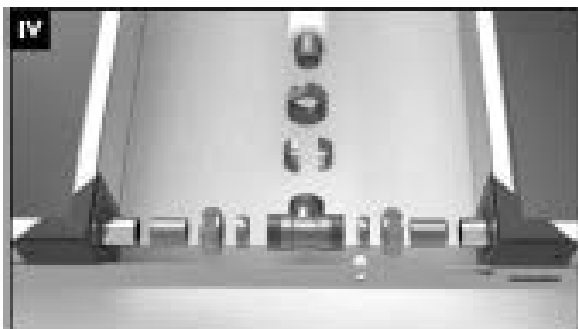
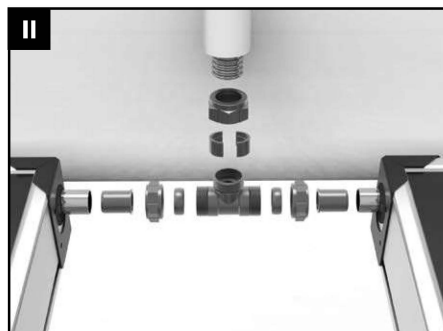
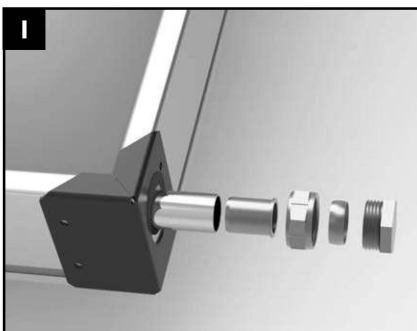
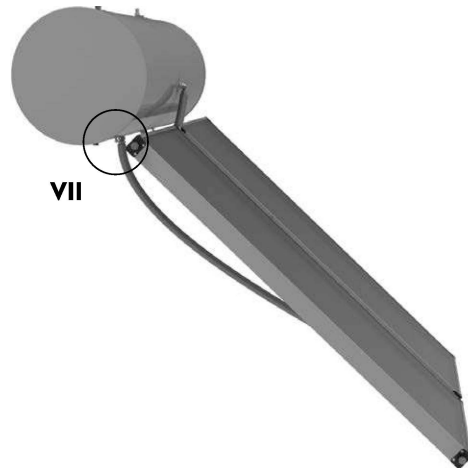
**IT** Istruzioni connessione sistema ECO-F con un collettore.

**GR** Τρόπος σύνδεσης συστήματος ECO-F με ένα συλλέκτη.

**PT** Instruções para a ligação do sistema ECO-F com um colector.



- EN** Connection System ECO-F two collectors.  
**FR** Montage du système ECO-F avec deux capteurs.  
**ES** Montaje del sistema ECO-F con dos colectores.  
**IT** Istruzioni connessione sistema ECO-F con due collettori.  
**GR** Τρόπος σύνδεσης συστήματος ECO-F με δύο συλλέκτες.  
**PT** Instruções para a ligação do sistema ECO-F com dois coletores





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