INAA

INSTALACIONES NATURALES ALTEA

Solar hot water working station (self filling pump)

INSTALLATION MANUAL

SGS ISO9001 CE

Foreword

Dear customer

Congratulations on your purchase of solar work station. Installing for superior performance in order to operate reliably at optimal efficiency, it must be correctly installed. Please ensure that you employ the services of a certified installer who will ensure the installation follows the manufacturer's guidelines and meets all government and health regulations

The solar working station has been designed with ease of installation as one of the key design features. This manual includes a clear step by step installation guide If you come across any issues not covered by this manual during the installation, please contact with your accredited installer or representative agent.

Feature:

Is a combined circulation unit for solar applications. On the right hand side, the pump will supply from the storage tank to the solar collector and the left hand pipe is the return from the collector to the tank coil

No filling pump needed. Using the working station with the container supplied could simplfy the installation on filling medium liquid. The circulation pump will allow one man to fill the system

Multifunctional ball valve to simplify the system filling

Install the collector and the cylinder separately

Preset the flow rate

Air stop device . manual integrated vent

Can work conjunction with any controller

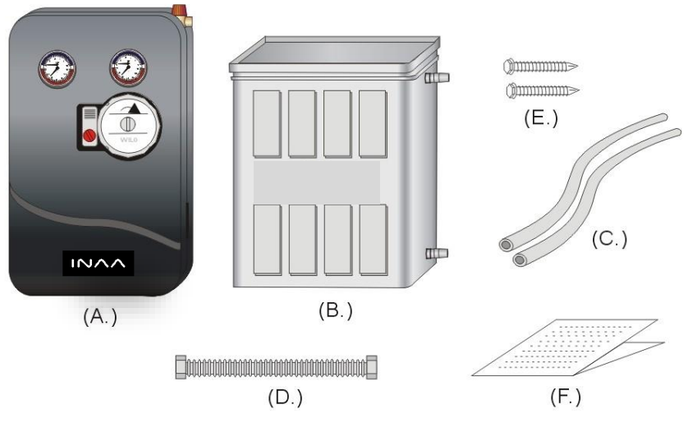
Safety operation, excellent performance, Maintenance free

Externality size

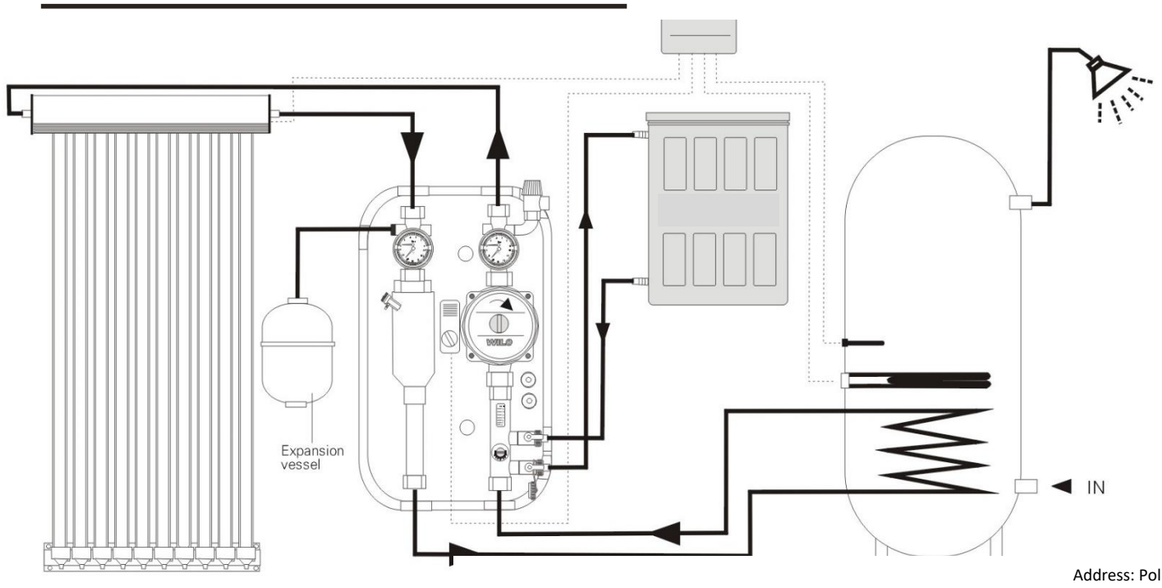
Component

Working station unit

No	Type	Quantity
(A.)	Working station CPU	1 pc
(B.)	Liquid container	1 pc
(C.)	Self-filling flexible pipe	2 purchase
(D.)	Expansion tank connection pipe	1 pc
(E.)	Fix screws	2 set
(F.)	Installation manual	1 set



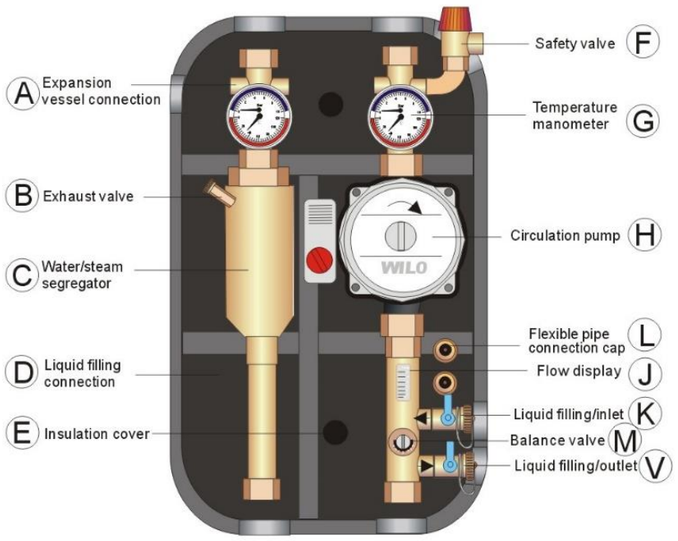
Working sketch map

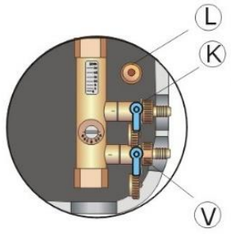


Address: Polígono industrial Cotes Baixes C/G17,
03804. Alcoy (Alicante), Spain
Tel: (+34) 646420507
Website: www.inaa.es
e-mail: info@inaa.es

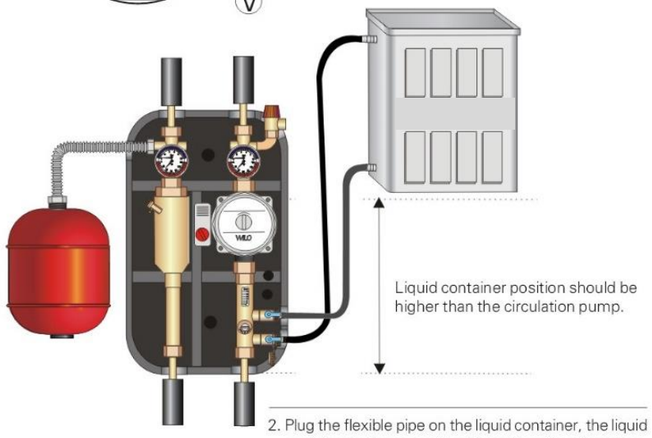
INAA INSTALACIONES NATURALES ALTEA

Structure

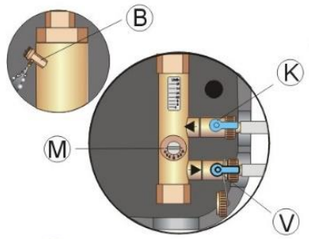




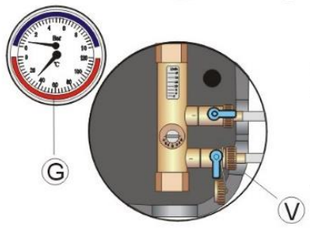
1. Screw off the cap on the valve Ⓚ and Ⓥ, screw on the flexible pipe connection cap Ⓛ.



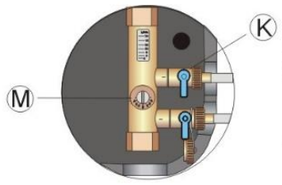
2. Plug the flexible pipe on the liquid container, the liquid container bottom must be higher than the circulation pump, so that the medium liquid could flow inside the pump by natural force.



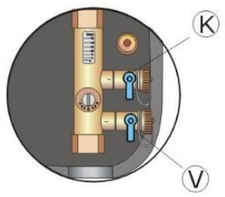
3. Please keep the valve Ⓜ in close state, open the valve Ⓚ and Ⓥ, let the medium liquid flow inside the circulation pump by natural force, then turn on the **"force circulation"** function on the controller. The circulation pump would suck the medium liquid from the container and feed it into the pipeline, ensure that the liquid could flow out from the valve Ⓥ into the container to form a loop. Meanwhile open the exhaust valve Ⓑ for evacuating the air, finally close it.



4. The circulation state should be kept at least 2–3 minutes, to ensure all the air inside the pipeline was exhausted. Close the valve Ⓥ, observing the manometer Ⓖ which pressure should not be lower than 1bar.



5. Close the valve Ⓚ, then open the valve Ⓜ to adjust to be the appropriate flow rate.



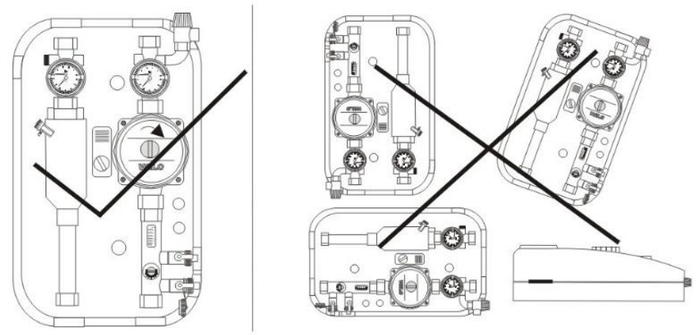
6. Take off the flexible pipe, screw off the flexible pipe connection cap Ⓛ, screw on protective cap on the valve Ⓚ and Ⓥ.

The liquid feeding procedure completed.

Caution:

1. Do not connect the flexible pipe and liquid container contrarily after the solar station installing on the system.
2. please turn the circulation pump on the MAX power during the liquid feeding.
3. ensure all the air in the pipeline should be exhausted
4. keep the appropriate pressure in the pipeline. If no pressure, please check the pipeline carefully to ensure no any leaking on the pipeline, then re-feeding liquid.
5. it is forbidden to open any valve during the working state, to avoid the liquid leaking.

Please keep the solar station in vertical installation.



1. Do not install it in the humid place
2. Please connect the safety valve with the sewer.
3. Please check the manometer regularly. Any pressure drop found should be re-feeded in time.
4. Please contact with the professional person for any maintenance or repair.

Technical parameters

Application range: Combined self-fill circulation unit for solar thermal applications
Body Dimensions (HxWxD): 476x285x158mm
Max pressure: 10 Bar
Max working temperature: 100°C
Max surrounding temperature: 45°C
Connection size: G3/4" female

Safety Device

Safety valve: 6 Bar
Air stop device: G 1/4"
Thermometer/pressure gauge: 0~10Bar / 0~120°C

Circulation Pump

Mode: WILO RS-15/6 RS-25/6
Maximal flow rate: 2.5T/h
Max lift: 6 m
Max working pressure: 10 Bar
Working temperature: -25 °C +110 °C
power supply: 220V/60Hz or 110V/50Hz

Balance valve

Flow rate control range: 4 to 16 l/min
applicability: Flow meter is control the flow rate from the rang 4–16 L/ min. the flow meter can display exactly flow rate. Anti-blast glass and brass cover Vertical install-ation is obligatory.

Cover

Outer EPP black ppe

Installation vertically

Address: Polígono industrial Cotes Baixes C/G17, 03804. Alcoy (Alicante), Spain
Tel: (+34) 646420507 website: www.inaa.es
e-mail: info@inaa.es