

Basic Accessories (included in package)

Connection Accessories

All of the necessary connection accessories of each unit are located in an incorporated packaging which consists of the following:

- Screws, bolts, nuts, moly plugs, etc.
- Bronze cross
- Connection raccords of collectors and plugs
- Flexible tube for the expansion pot
- Sensor-socket (boiler-collectors)
- Degasser of the collectors



Hydraulic kit



Description on page 24, 25, 42, 43 and 44

Differential thermostats TCD1 PLUS



Description on page 23

Expansion pot



The expansion pot of 18 liters is suitable for all of the systems (VS-150 up to VS-500) and the maximum length of 50m of pipes $\varnothing 22\text{mm}$ for the closed circuit. It is connected to the hydraulic kit with the flexible tube which is included in the package.

Antifreeze Liquid

Dilution	
% v. in water	Freezing Point
20%	- 7°C
30%	- 13°C
40%	- 23°C
50%	- 34°C

Glicol is used to avoid the freezing of the thermal liquid of the solar collectors of the closed circuit. It is delivered in a plastic bottle of 10 liters.



It must be mixed with water depending on the weather conditions (minimal environmental temperature) in the area where the solar system is installed. The table on the left shows the analogy of Water / Glicol to the environmental temperature.

Optional Accessories (not included in kit)

Electric Resistance

On all V - BL1 & V - BL2 boilers, an electric resistance can be installed which is delivered upon a special order. The electric resistance 2 or 4 kW / 1~230V is delivered with the thermostat and a plastic cover. The electric resistance 6 or 9 kW / 3~400 V is delivered without the thermostat (obligation of the installer).

The existence of a back up energy source secures the availability of hot water in the cases of low sunshine and /or inavailability of other back up energy source (central heating system or heat pump).

Technical Characteristics of the electric resistance:

Material:	copper
Connection inlet:	N 40 (1 ½") M.
Power:	2 or 4 kW (1~230 V) with thermostat 6 or 9 kW (3~400 V) without thermostat



Thermostat

All of the single-phase electric resistances (up to 4 kW) are delivered with a thermostat with a uni-polar interruption function as well as a bi-polar interruption thermal safety button with manual reset.

Technical Characteristics of the thermostat:

Control:	incorporated
Model of thermostat:	B2-10
Protection at IP:	00
Tmax - maximum environmental temperature:	105 °C
Cycles start / pause :	10.000 times (cycles)
Fire resistance category:	B
Environmental function:	Clean Environment



Always follow the installation instructions as described in chapter 5, page 45.

Notes:

- When the electric resistance is installed, you must also fix a protective cover so that to ensure a complete water tightness and security.
- All the installations and connections must be done according to the rules and regulations (electrical, plumbing, urbanism and others) applicable in your area.