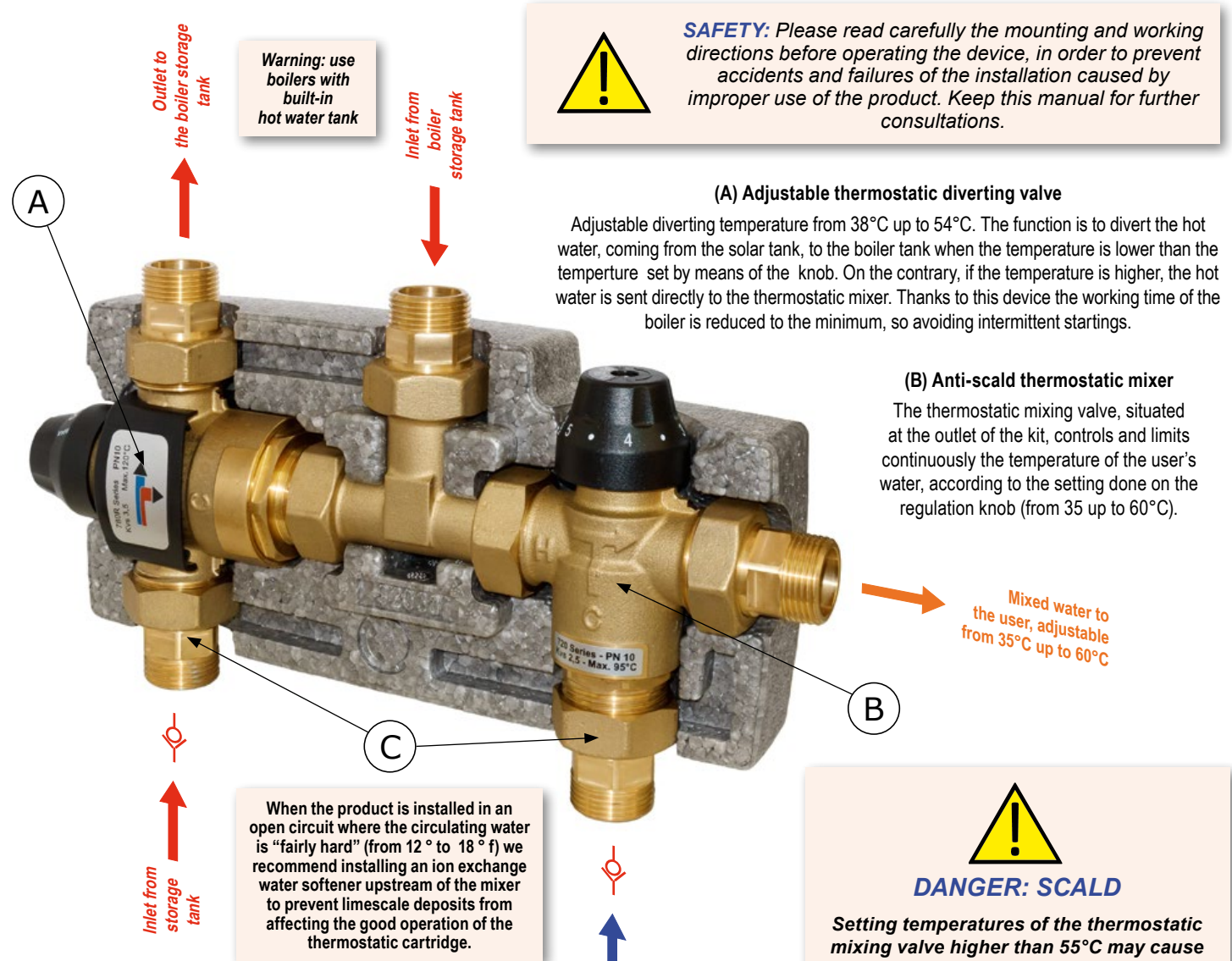


# SOLAR KIT 2 - THERMOSTATIC SOLAR BOILER CONNECTION KIT

## List and features of main components



**SAFETY:** Please read carefully the mounting and working directions before operating the device, in order to prevent accidents and failures of the installation caused by improper use of the product. Keep this manual for further consultations.

**DANGER: SCALD**

Setting temperatures of the thermostatic mixing valve higher than 55°C may cause scalds in a very short time, particularly to the childrens. Therefore we recommend to install a security anti-scald device in the crucial outlets.

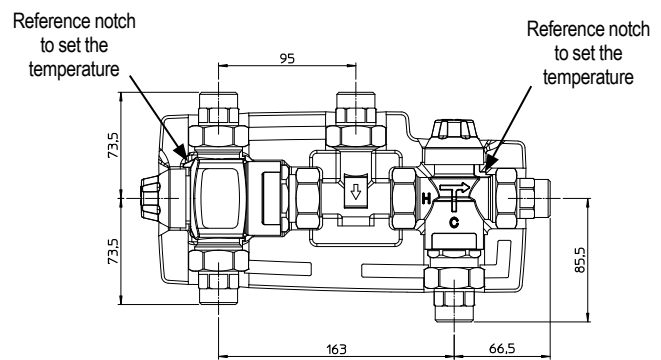
### Technical features

Maximum static pressure: **10 bar**  
 Dynamic minimum pressure: **5 bar**  
 Maximum ratio between the pressures: **2:1**  
 Maximum inlet temperature: **constant 100 °C;**  
**short time: 120 °C for 20 s**  
 Temperature setting range / Precision: **35 ÷ 60 °C / ± 1 °C**  
 Setting range of diverting temperature: **38 ÷ 54 °C**

**Connections:** 3/4" Male (swivel union)  
**Centre distance:** 163 mm. Boiler: 95 mm.  
 "T" central connection with adjustable angular position of connections;  
 in some positions it'll be necessary to remove the insulation box.

### Available models

✓ Medium use up to 49 l/min (3 bar): **Kvs 1,7**



### EPP insulation box

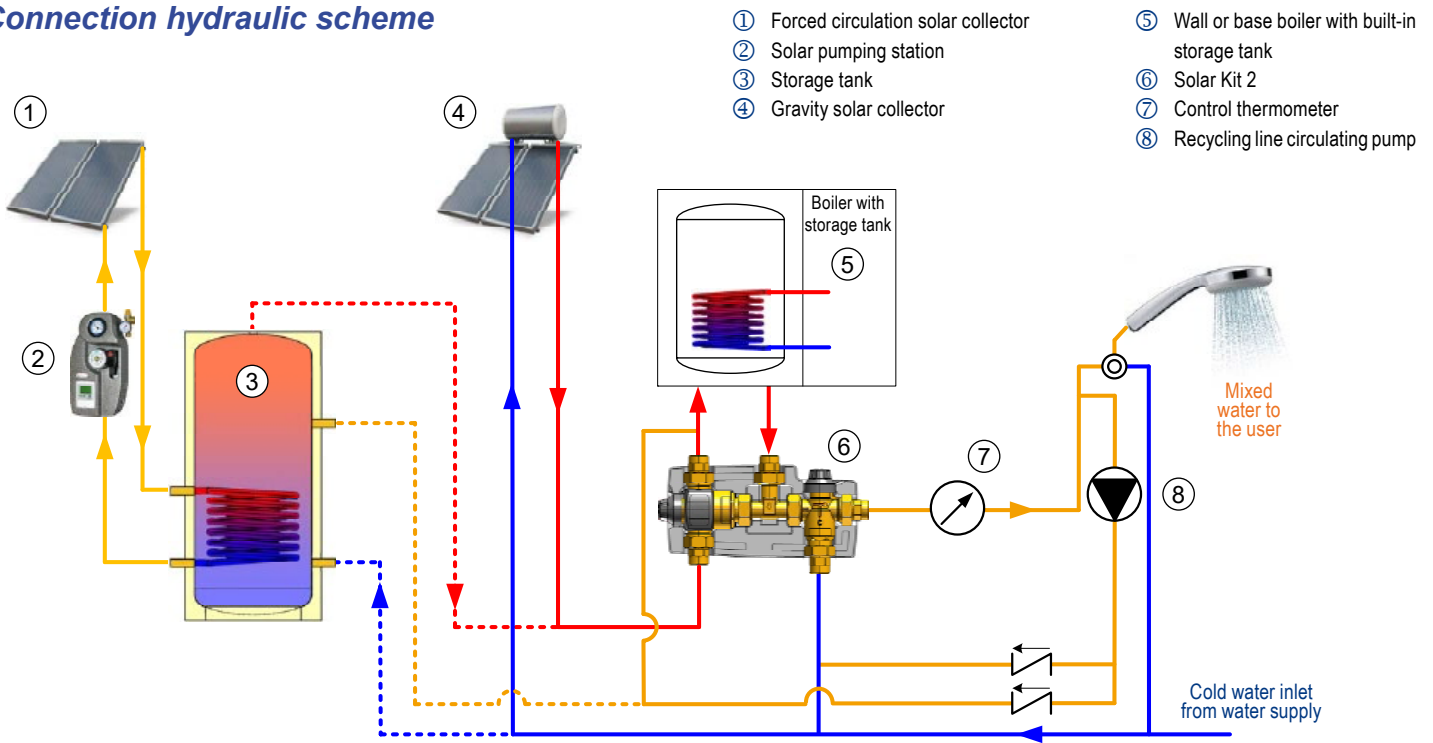
**Measurements: 255 x 125 x 100 mm.**

Once the installation finished place the protection cover (we suggest a minimum distance of 100 mm from the pipes axis to the wall to make easy the insertion) and check again the fittingness of the connections together with the indications written on the cover.



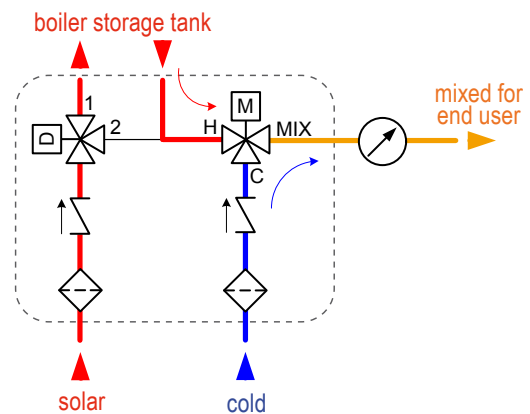
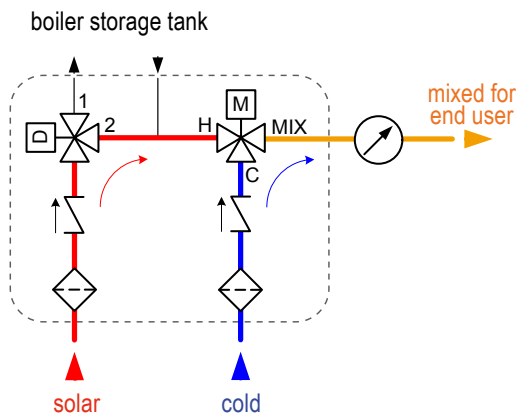
# SOLAR KIT 2 - THERMOSTATIC SOLAR BOILER CONNECTION KIT

## Connection hydraulic scheme



**Scheme 1:** working conditions at a diverting temperature of 42°C (summer time setting)

**Scheme 2:** working conditions at a diverting temperature of 48°C (winter time setting)



- Adjustable thermostatic diverting valve:** outlet towards the gate 1 if the temperature is lower than the selected temperature; outlet towards the gate 2 if it is higher than the selected value.
- Anti scald thermostatic mixing valve, adjustable from 35°C to 60°C:** H inlet hot water from the brass fitting; C inlet cold water from mains; MIX exit mixed hot water towards end user.

- Solar check valve**  
it is built-in in the 3/4" male fitting
- Filter**  
it is built-in in the 3/4" male fitting



## Temperature setting

The temperature setting is done by rotating the knob to put the requested temperature value on the reference notch.

### Temperatures at the reference notches:

MIN	1	2	3	4	5	MAX
~32°C	40°C	47°C	51°C	54°C	57°C	~60°C

The above indicated values are related to the following operational conditions:  
 $T_H = 65^\circ\text{C}$        $T_C = 15^\circ\text{C}$        $P = 1\text{ bar}$



## ANTI-SCALD SAFETY

The anti-scald function automatically cuts the hot water flow in case of failure of the cold water circuit. This security is operating at a temperature difference of 10 K between the hot water inlet temperature and the mixed outlet temperature. Check this operation when the installation is running by closing the cold water isolating valve: the outlet flow of the mixed water must come down to zero very quickly.