

DOMVS CIRC 1 - HOT DOMESTIC WATER (HDW) RECYCLING KIT

1. Employment

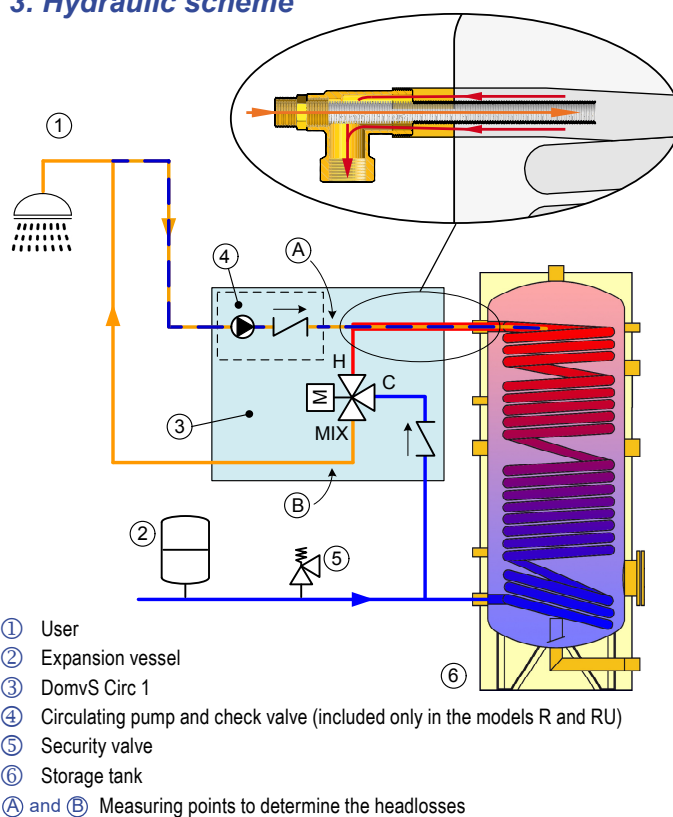
The kit allows to make the connections of the recycling line of hot domestic water to a storage tank with coils in a very simple way. The pre-assembled kit, by means of a stainless steel flexible pipe, makes a counter-current circulation that warms the water along the recycling line.

2. Working

When the circulating pump starts, the cold water into the recycling loop, flowing through the flexible pipe, comes back warmed towards the gate H of the mixer; the gate C of the mixer is usually closed until when the temperature of the recycling loop is approaching to the one selected on the mixer (this condition is unlikely to be happened). The recycling circulation into the recycling loop is working until the circulating pump sensor or timer are satisfied.

USERS' TEMPERATURE SETTING: as concerns the working of the mixing valve please refer to the specific instructions here enclosed.

3. Hydraulic scheme



POSITIONING OF THE CIRCULATING PUMP: in case of use of high temperature storage tanks (>65°C), we recommend to install the circulating pump at a minimum distance of 2 m from the "T" connection, to avoid the conduction heating of the temperature sensor of the circulating pump.

Users' mixed water, adjustable from 35°C up to 60°C

min. distance 2 m

Model with pre-mounted circulating pump

4. Technical features

Maximum static pressure:	10 bar (PN10)
Maximum dynamic pressure:	5 bar
Maximum ratio between the pressures:	2:1
Maximum inlet temperature:	95 °C
Users' setting temperature range:	35÷60 °C
Setting stability:	±2 °C (Kvs 4,0); ±1 °C (Kvs 2,5)
Connections:	3/4" Union Male (connections)
Recycling:	1/2" Male
"T" connection:	1" Male to the storage tank

5. Mounting

Before mounting the recycling kit, the domestic water line must be cleaned. The recycling kit has to be mounted directly into the hot water connection of the storage tank with coil. When mounting the recycling unit please follow precepts, regulations and instructions.

In case of use of a circulating pump equipped with built-in thermic sensor, this one must be placed at almost 2 metres far from the storage tank, in order to avoid thermic conduction phenomena that could distort the reading of temperature.

6. Recycling line headloss curve (*)

The pressure drop between hot water and mixed water is measured at 51°C (handle position:3 approximately) with 65°C hot water temperature and 15°C cold water temperature.

In case of big installations we recommend you to use the model equipped with Kvs 4,0 mixing valve for flows up to 82 l/min (1,5 bar).

The kit equipped with Kvs 2,5 mixing valve is suitable for flows up to 51 l/min (1,5 bar).

(*) measured between the point A and the point B of the installation.

