

# EUROWATER

A GROUP OF CO-OPERATING EUROPEAN WATER TREATMENT SPECIALISTS

CUSTOMER INFORMATION

## SAMPLE COOLER TYPE SE

- IDEAL FOR BOILERS AND THERMAL DEAERATORS
- EFFICIENT COOLING ACCORDING TO THE COUNTER-CURRENT PRINCIPLE
- NO CONTAMINATION OF THE SAMPLE
- EASY TO INSTALL
- SIMPLE AND SAFE OPERATION
- COMPACT DESIGN
- GLASS BLASTED SURFACE
- STAINLESS STEEL AISI 316L



## APPLICATION

The sample cooler is used when sampling of water samples from boilers and thermal deaerators. It is necessary to sample regularly in order to monitor that the boiler or the thermal deaerator functions optimally.

## MATERIALS

All components (shell, ends, coil, needle valve, ball valve, hose connection, and other fittings) are made of stainless steel AISI 316L/EN No. 1.4404.

Weight: 4.5 kg.

## PRESSURE AND TEMPERATURE RANGES

Coil:	Design pressure	40 bar
	Design temperature	250 °C
Housing:	Design pressure	15 bar
	Design temperature	150 °C

## CONNECTIONS

Cooling water inlet:	Rp ¼ ball valve
Cooling water outlet:	R ¼
Sample inlet:	Rp ¼ needle valve
Sample outlet:	6 mm hose connection

## INSTALLATION

The sample cooler is mounted vertically by means of the welded installation armature and placed so that operation is not made difficult. The pipe connections to and from the sample cooler are of AISI 316L in minimum ¼". The cooling water outlet is conducted to an open drain. In order to prevent contamination of the sample it is recommended that the piping from the boiler or the thermal deaerator is as short as possible.

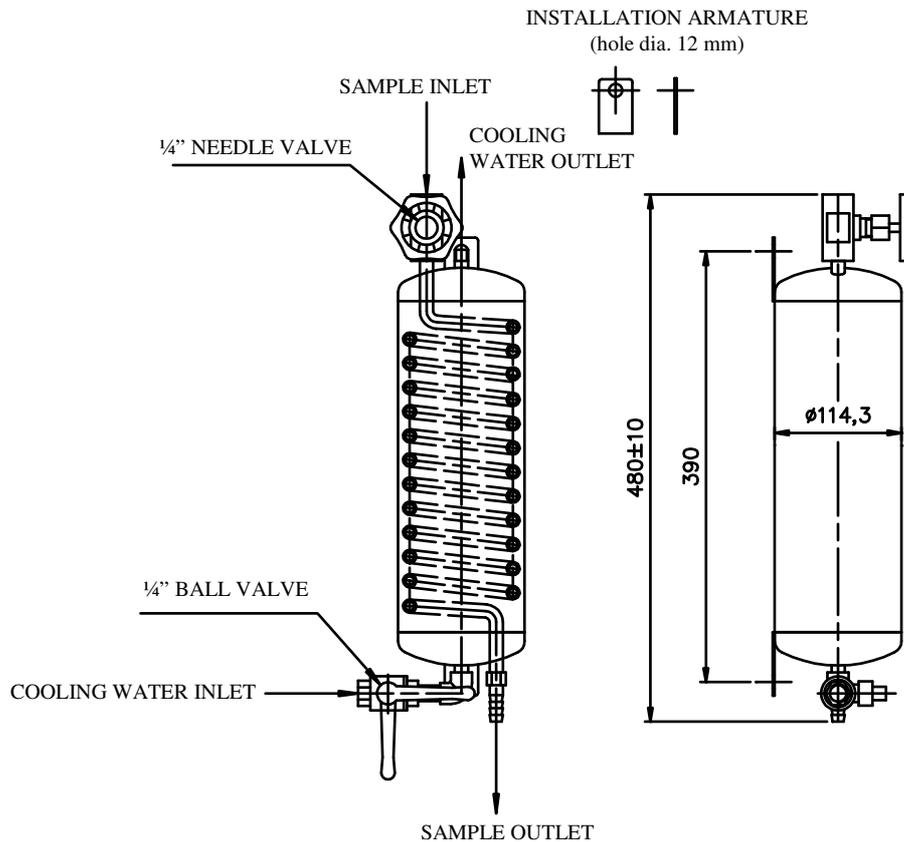
## OPERATION

The following procedure ensures a correct result:

Completely open the ball valve on the cooling water inlet. Conduct the cooling water from the sample cooler to drain. Check that cooling water runs out.

Then slowly open the needle valve on the sample inlet and adjust the needle valve until the water temperature at the sample outlet is stabilized at 20 °C. Let the water run until you are certain that the water is representative.

After the sampling first close the needle valve on the sample inlet. Then close the ball valve on the cooling water inlet.



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