

Sample Conditioning



Preparing Process Samples

Sample Conditioning

Series SCHC

✓ Principle

SCHC Sample conditioning systems are used to prepare a collected sample from a process to be cool if it is hot or to be warm if it is cold to make it easy to handle the sample and an effective sample testing.

There is a coil for process fluid passage. This coil takes place in a vessel in which the coolant liquid comes in touches the coil and after heat transfer goes out. The coil is used for maximize effective area and prepare enough time for sample to be heat transferred.

Number and size of coil rings and the vessel size either material shall be calculated based on the liquids` property and the flow rate as well.

This product line can be separated to 3 different types:

- *Sample Cooler*
- *Sample Heater*
- *Sample Vessel*

✓ Construction

Design and Calculation : Pressure Mechanical and Thermal Transfer Calculations.

Process Inlet Sizes : ½ to 3 Inch.

Process Outlet Size : ½ to 3 Inch.

Pressure rating : PN 10 - 640, 150 - 2500 lbs.

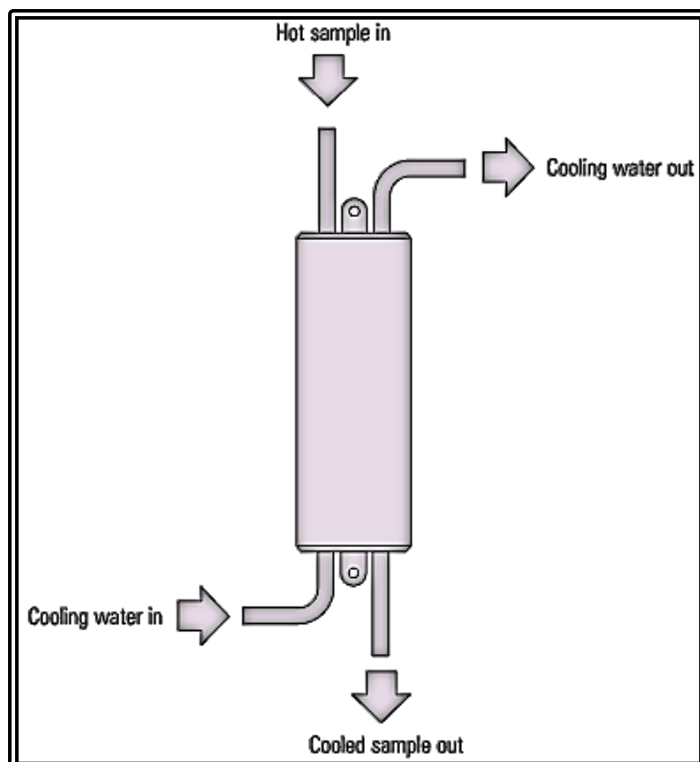
Coolant Connection : ½ to 4 Inch.

Material of Body : Carbon Steel, Stainless Steel

Material of Coil : Stainless Steel, Copper alloys, or any other on request

Inlet Temperature : Up to 825 °C

Outlet Temperature : According to request



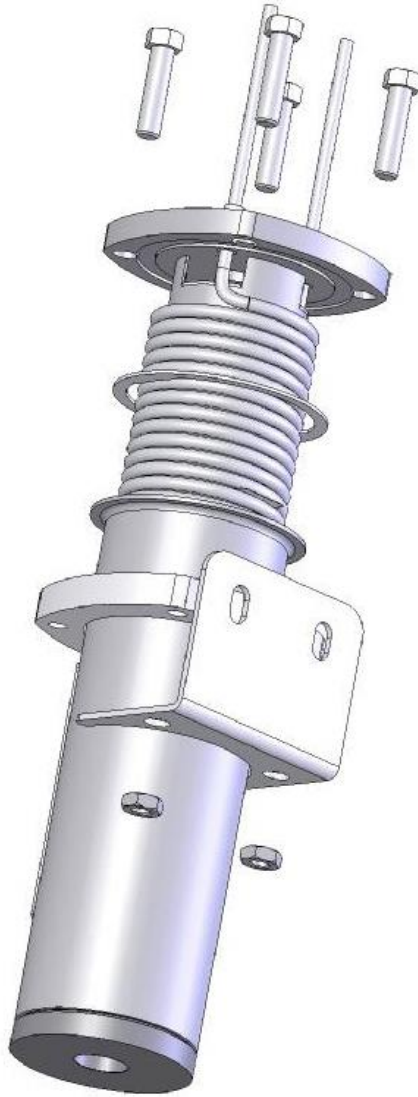
✓ Technical Data

Corrosion Resistance : Default Material is SS 316 for high resistance but based on fluid may be varied to bear enough resistance.

Documentation : Mechanical and Heat Transfer Calculations

✓ Accessories

Shut-off valves and Plugs.



Some picture of Sample cooler and Sample Heater:

