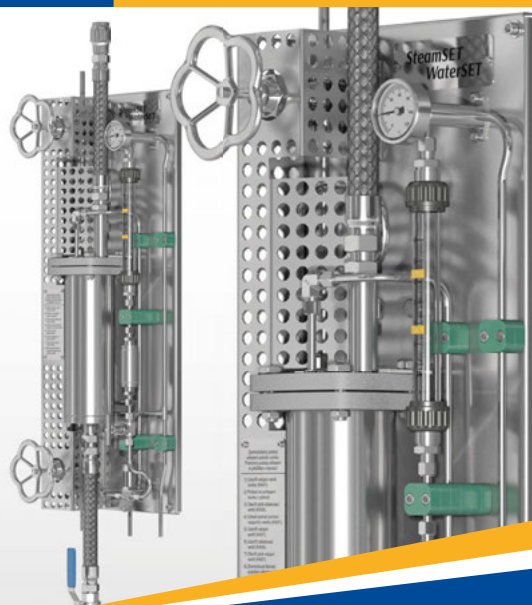


Sampling Panels

- Steam and Water sample conditioning
- Used for online analysis of steam and water sample properties or sample extraction
- Effective reduction of sample temperature, pressure and sample flow control
- Single channel panels can be combined into multi-channel systems
- Turnkey deliveries including installation and commissioning on site

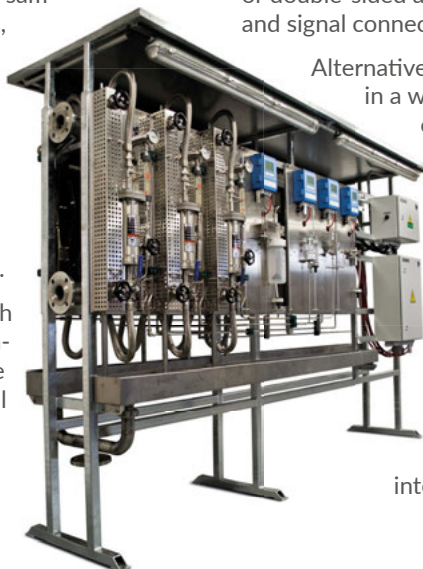


Description

The Sampling Panels SteamSET and WaterSET provide a compact solution for efficient temperature and pressure reduction as well as a flow control of steam and water samples. Based on the application requirements, a choice of several performance levels is available to ensure a stable outlet flow of sample with desired parameters even for the most demanding inlet conditions.

The arrangement of Sampling panels and their dimensions are either selected from standard layouts or could be modified to satisfy special requests or space constraints.

The sampling panels are produced using high quality materials and components to guarantee long service life, the panel design can be flexibly modified in order to include optional equipment or to provide customer defined functionality.



Complete assemblies of sample conditioning

Sampling Panels can be supplied as individual sample conditioning instruments or as complete assemblies, featuring one- or double-sided arrangement on a dedicated rack with media and signal connection interfaces.

Alternatively it is possible to deliver the Sampling panels in a wall-mounted box, in a cabinet or a fully equipped container for outdoor applications with air conditioning, safety measures etc. Such sampling assemblies are often supplied together with steam and water analysers to form a comprehensive automated online SWAS (Steam and Water Analysis System) solution.

In addition it is possible to supply such sampling and analyser systems as a turnkey package involving design study, engineering, system deliveries, installation and connection works, process and signal interconnections, commissioning etc.



ANALYZERS

Alongside Sampling Panels, Analyzers of various properties of steam and water are often requested. These can be easily mounted on the Sampling rack or arranged separately.

Among the most measured parameters are:

- Specific Conductivity
- Dissolved oxygen
- Cation Conductivity
- Silica concentration
- pH
- Sodium content
- Ammonia concentration
- Hydrogen content

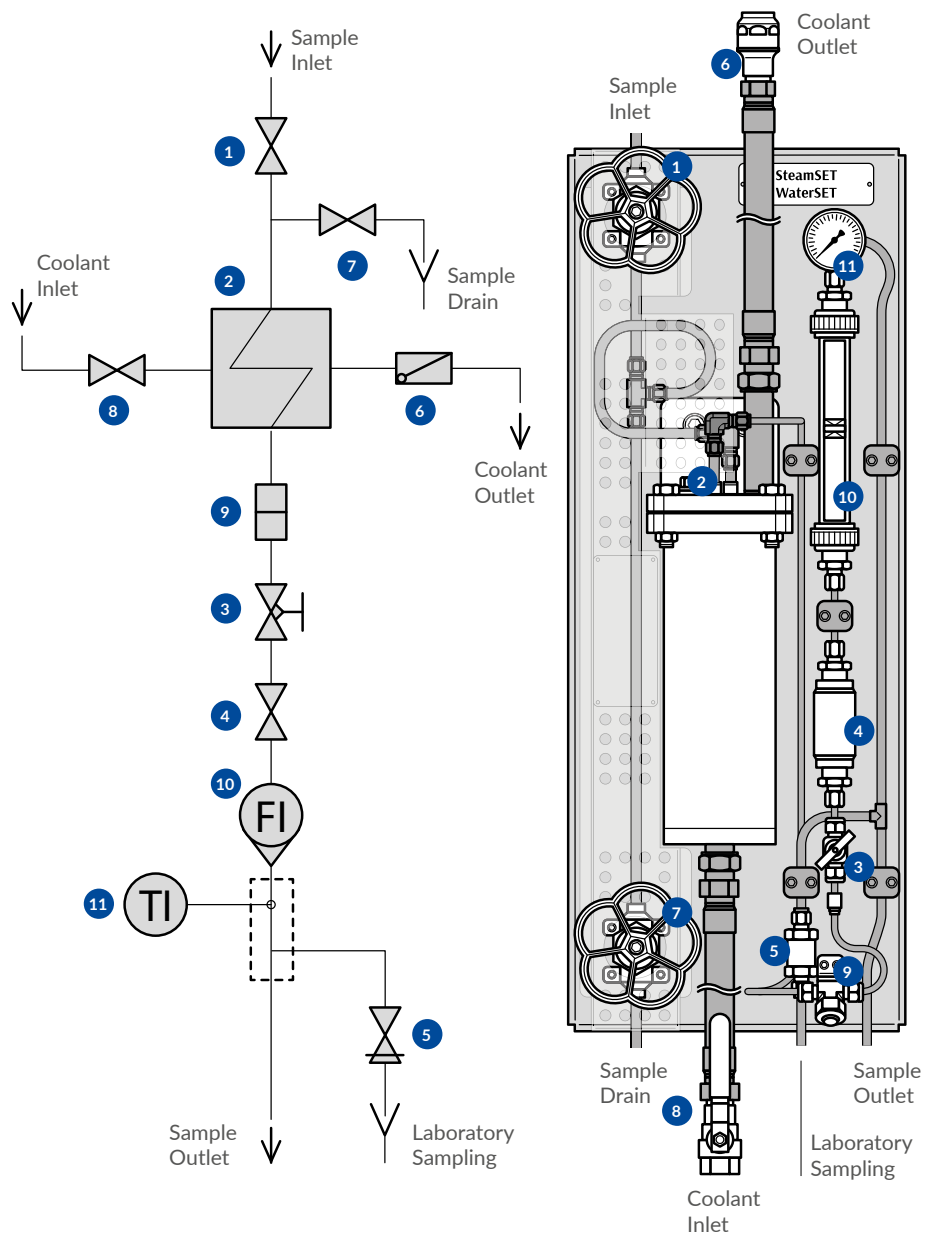
Sampling Panel Layout

> MAIN COMPONENTS:

- Input Valve** 1
- High pressure Cooler** 2
- Reduction Valve** 3
- High Temperature Protection Valve** 4
- Backpressure Regulator** 5
- Check Valve** 6

> OPTIONAL COMPONENTS:

- Drain Valve** 7
- Coolant Shut-off Valve** 8
- Sample Filter** 9
- Flow Meter** 10
- Sample Temperature Gauge** 11



Selected references

Ledvice SCP 660 MW – Czech Republic
 Pocerady PPC 880 MW – Czech Republic
 Prunerov II 3x 250 MW – Czech Republic
 Synthesia Pardubice – Czech Republic

Al Nouran Sugar – Egypt
 E.ON Rotterdam – Netherlands
 US Steel Kosice – Slovakia
 KGHM Glogow – Poland

