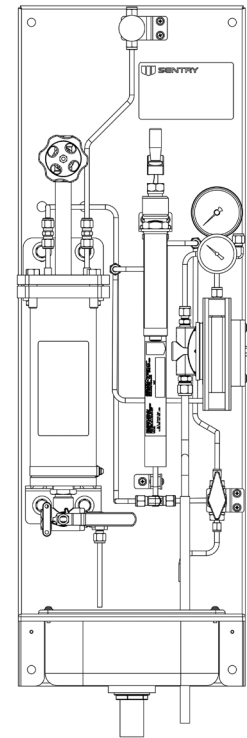
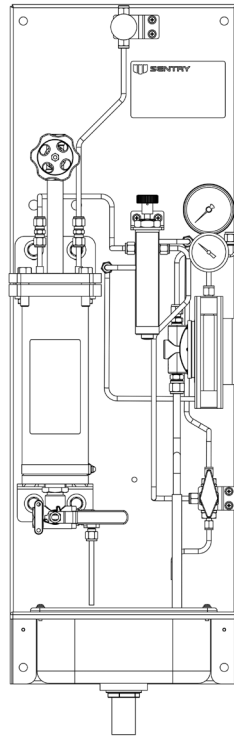
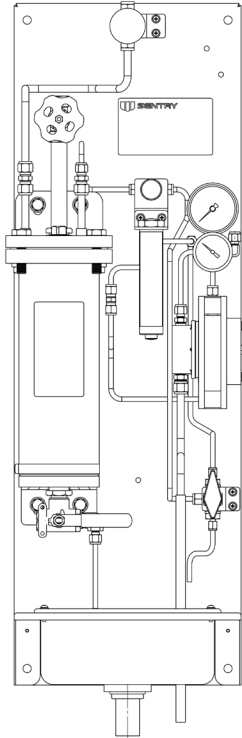




# Standard Analyzer Sample Conditioning Panel

## Applications

- Power Generation
- Steam Systems
- Cogeneration



Application <300psig (20.7 bar) / <600 °F (315 °C)    Application <600psig (41.4 bar) / <600 °F (315 °C)    Application <3000psig (206.8 bar) / <1000 °F (537 °C)

## Simple to install. Safe to operate.

Hach®'s Sample Conditioning Panel (SCP) for a single sample line allows for 1-3 analyzers (depending on flow requirements) to be easily connected to a hot and pressurized sample. It helps to protect and respect all safety and sample requirements.

The standard sample preparation panels include all necessary components for temperatures up to 1000 °F (537 °C) and are available in three different pressure/temperature versions based on whether the sample is incoming water or steam.

### Complete Solution

Everything from one single source: pre-configured panel, service, digital learning modules, and quality control. The single standardized platform minimizes time required to teach and learn product operations, getting new systems in use faster.

### Easy and Safe Operation

The SCP (Sample Conditioning Panel) is easy to install and requires very little maintenance. Safe operation through shut-off valves for hot samples, safety valves for cooling water, protection for hot parts, and certified pressure tests.

### Robust and Industrial Design

The efficient cooler designs for each panel ensures the need for less cooling water for the wide sample pressure and temperature ranges. Key parts are in stainless steel. The design allows for easy connection to any single independent analyzer or for integration in any complete skid of analyzers.

## Technical Data\*

### Sample conditions

	Low Pressure Steam Panel	Medium Pressure Panel	High Pressure Panel
<b>Sample Pressure</b>	<300 psig (20.7 bar)	Liquid: 50 - 500 psig (3.4 - 34.4 bar) Steam: 300 - 500 psig (20.7 - 34.4 bar)	500 - 3000 psig (34.5 - 206.8 bar)
<b>Sample Temperature</b>	<600 °F (315 °C)	<600 °F (315 °C)	<1000 °F (537 °C)
<b>Sample Flow Rate</b>	200 mL/min for conductivity 150 mL/min for SiO <sub>2</sub> and PO <sub>4</sub> 100 mL/min for pH, O <sub>2</sub> , Na Plus 350 mL/min for grab sample Maximum total sample flow for the panel is 1600 mL/min for hot water or 1000 mL/min for steam. Up to 3 analyzers can be connected to one sampling panel.		

### Cooling water conditions

<b>Pressure Range</b>	Cooling water: <150 psig (10.3 bar)
<b>Temperature</b>	Cooling water: <110 °F (43 °C)
<b>Requirements</b>	Turbidity: < 50 NTU; pH Range: 7 - 12 pH; Conductivity: <100 µS/cm
<b>Defined Chloride Range</b>	<250 mg/L for sample temperature 77 - 356 °F (25 - 180 °C) <100 mg/L for sample temperature 356 - 554 °F (180 - 290 °C) <25 mg/L for sample temperature 554 - 1022 °F (290 - 550 °C)
<b>Cooling Water Quality</b>	Filtered, softened/decarbonized water quality required

For any extra range of the parameters please contact Hach Technical Support.

## Order Information\*

### Sample Conditioning Panel for online analysis, consisting of the following components:

Sentry Back Pressure Relief Valve with a Set-point of 20 psig (1.4 bar), Grab Sample, 304 SS Sample Sink; all components are factory mounted on a 12 in. (W) x 36 in. (H), T304SS backplate. All sample tubing throughout panel is SA249, T316 SS.

Cooling Water Valve Materials are Stainless Steel. Sentry Thermal Shut off Valve with a Set-point of 120 °F (49 °C).

Low Pressure (Cooled Sample) Blow-down Valve, Total Flow Indicator; 0-1600 cc/min, Temperature Gauge; 0-250 °F (-20-120 °C) Pressure Gauge; 0-60 psig (0-4 bar). Globe Valve on the Cooling Water Outlet. 3-Way Cooling Water Inlet Valve with drain.

	Low Pressure Steam Panel	Medium Pressure Panel	High Pressure Panel
<b>Application</b>	Steam sample only in low pressure boilers for Power & Industry	Make up water, feed water, boiler water, condensate and steam in medium pressure boilers for Power & Industry	Feed water, boiler water & steam in high pressure boilers for Power & Industry
<b>Features related to Panel Version</b>	SCP Panel (model SL200L-STM), <300 psig (20.7 bar), <600 °F (315 °C) <ul style="list-style-type: none"> <li>• 3/8 in. Sample Inlet Isolation Valve</li> <li>• Primary Sample Cooler, Sentry Model FLR6222</li> <li>• Sample Flow Control Valve</li> </ul>	SCP Panel (model SL200L), <500 psig (34.4 bar), <600 °F (315 °C) <ul style="list-style-type: none"> <li>• 1/4 in. Sample Inlet Isolation Valve</li> <li>• Primary Sample Cooler, Sentry Model TLR4225</li> <li>• Sample Flow Control Valve</li> </ul>	SCP Panel (model SL200H), <3000 psig (206.8 bar), <1000 °F (537 °C) <ul style="list-style-type: none"> <li>• 1/4 in. Sample Inlet Isolation Valve</li> <li>• Primary Sample Cooler, Sentry Model TLR4225</li> <li>• Sentry VREL High Pressure Reducing Valve</li> </ul>
<b>Part number</b>	<b>LYP106.99.01003</b>	<b>LYP106.99.01004</b>	<b>LYP106.99.01005</b>

\*Subject to change without notice.



World Headquarters: Loveland, Colorado USA | [hach.com](http://hach.com)

United States 800-227-4224 fax: 970-669-2932 email: [orders@hach.com](mailto:orders@hach.com)  
 Outside United States 970-669-3050 fax: 970-461-3939 email: [int@hach.com](mailto:int@hach.com)

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