Steam Sample Conditioning - LPHT

Low Pressure High Temperature
Pressure < 35 bar  Temperature < 538 °C

Control Your Steam Quality
- Increase lifetime of your steam applications
- Prevent corrosion in boilers and pipelines
- Optimize steam chemical composition
- Extract true representative samples of your steam water cycle

Mechatest Steam Sample conditioning panels are available in many configurations for as many applications in the industry. This sampling panel is used in power plants and mostly used in combination with water analyser equipment for analysis on chemical parameters like Conductivity, pH, Dissolved Oxygen, Silica and Sodium. The panels are used for sample conditioning and collection.

SPECIFICATIONS
- Sample pressure (recommended) < 35 bar
- Sample temperature (recommended) Max. 538 °C
- Flow single phase samples (water/condensate) Max. 108 L/h
- Flow condensing samples (steam) Max. 60 L/h
- Cooling water flow Max. 1500 L/h
- Sample tube length and cooling area 11 m (0.22 m²)
- Standard panel dimension 850 x 500 mm

TYPICAL APPLICATOINS
- Demi water
- Feed water
- Boiler water
- Condensate
- LP/HP Steam
- Life Steam

BUILT CONFORM
- ASME PTC 19.11-2008
- ASTM D1066
- ASTM D1192 / D3370
- SO 5667.7
# SCS Steam Panel Configurator - LPHT

## Low Pressure High Temperature

<table>
<thead>
<tr>
<th>Series</th>
<th>Cooler Type</th>
<th>Tube Material</th>
<th>Tube Design</th>
<th>Shell Material</th>
<th>Shell Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPHT</td>
<td>TLR-4225</td>
<td>1/4&quot; OD - 316 SS</td>
<td>345 bar @ 538°C</td>
<td>304 SS</td>
<td>31 bar @ 343°C</td>
</tr>
<tr>
<td>LPHTA</td>
<td>TLR-42B5</td>
<td>1/4&quot; OD - Inconel 625</td>
<td>345 bar @ 593°C</td>
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**Designators**

<table>
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<th>Example Ordering No.</th>
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<tbody>
<tr>
<td>LPHT - 1 1 1 1 1 - 0 0 0 0 X</td>
<td></td>
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</tbody>
</table>

1. **INLET BLOCK VALVE**
   - 0 No inlet valve
   - 1 Needle valve 316 SS (Std. Swagelok)
   - 2 Double inlet valve

2. **FILTER**
   - 0 No filter
   - 1 T-Filter 90 micron 316 SS (Std. Swagelok)
   - 2 Filter large volume 90 micron 316 SS (Std. Classic)

3. **PRESSURE REGULATION**
   - 0 No pressure regulating valve
   - 1 Regulating valve 316 SS (Std. Swagelok)

4. **TEMPERATURE INDICATION**
   - 0 No temperature gauge
   - 1 Temperature gauge 0 - 60 °C 316 SS in flow chamber (Std.)

5. **TEMPERATURE SAFETY**
   - 0 No temperature shut-off valve
   - 1 Automatic Temperature shut-off valve @ 46°C (Std.)
     (automatic open if temperature below setpoint)
   - 2 Reset Temperature shut-off valve @ 46°C (Std. Centry)
     (reset to open if temperature below setpoint)
   - 3 Electronic Temperature shut-off valve @ 46°C

6. **BACK PRESSURE REGULATION**
   - 0 No BPR mounting plate
   - B Mounting plate for Swan BPR on panel

7. **SAMPLE BLOWDOWN OPTIONS**
   - 0 No sample blowdown (Std.)
   - C Cold sample blowdown
   - H Hot sample blowdown
   - CH Cold and Hot sample blowdown

8. **PRESSURE SAFETY OPTIONS**
   - 0 No pressure safety (Std.)
   - 1 Pressure relief valve on C.W. connection
   - 2 Pressure relief valve on Sample connection

9. **FLOW INDICATION**
   - 0 No flow indication (Std.)
   - F Flow indicator in sample line
   - S Sight glass indicator in C.W. line

10. **OPTIONS**
    - X No options
    - A Acid purging connection (T-conn. + valve)
    - E Extension handle (on hot inlet valve)
    - L Lab sample tablet / drain funnel
    - P Portable (system on rack with wheels)

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Mechatest is a Certified Industrial Sampling Systems Company with over 26 years of experience in design and manufacturing of fluid sampling systems. We understand how a sample behaves at the sample tap and transport into the lab. We offer the best knowledge, equipment and sampling solutions in the field.