

Panels for Samples Conditioning

- **Effective reduction of temperature, pressure and control of the medium flow.**
- **Constant flow of sample ensures repeatable results.**
- **Usable for on-line measuring or sampling.**
- **Safe and reliable operation thanks to shut-off valves.**
- **Possibility of adjustment to specific conditions of measurement due to the modular construction.**
- **Single channel panels can compose multi-channel systems delivered in analysis conveyors or houses.**
- **Compact design and easy installation is compatible with systems of other manufacturers.**
- **Optional choice and combination of components from various manufacturers.**
- **Turnkey deliveries with project documentation, installation and commissioning.**



Description

The panels SteamSET and WaterSET are complete and efficient assembly for temperature and pressure reduction of measured medium samples. The panels cover ranges from the lowest up to the highest parameters. Solution and completion is performed and combined regards to dimension possibilities and with respect to fulfill all required parameters. Connections on the side of the medium are mostly welded, or because of easier installation, there are used dismountable connections with Parker A-lok, eventually Swagelok fittings.

Complete assemblies of samples conditioning

Panels for samples conditioning can be supplied as complete assemblies, including one or two sided installation on the stand from galvanized or stainless steel. Alternatively it is possible to supply selected autonomous unit (container, glazed box, air conditioning, heating etc.), providing connection of samples or analyzer installation. As an option it is possible to provide complete electrical connection of supplying and signals to the associated rack, delivery with lights, detailed description of all items, color coding etc.

Service and repairs

All needed spare parts are ensured by adequate stock availability of selected components. Service works are done by JSP specialists. Other consumables are provided in favourable delivery terms.

Summary

Panels are supplied with stainless steel assembly plate, with these standard items:

- Pressure cooler
- Shut-off (alternatively drain) vent of sample inlet
- Pressure reducer
- Self-operating temperature shut-off valve – with automatic or manual renewable blocking function
- Bypass regulator to maintain a constant pressure of sample at the outlet
- Manual sampling

Optional items:

- Valves and stainless steel pipes for inlet of cooling medium (including non-return valve)
- Visualization of media flow
- Control of cooling medium flow
- Safety valve on the side of cooling medium
- Measurement of medium temperature
- Measurement of output medium pressure
- Sample filtration

Other options can chosen according to the ordering table, contract documentation and customer requirements.

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SteamSET, WaterSET - Panels for samples conditioning

Type	Description
WS50	WaterSET, standard panel for water, temperature up to 50 °C (without cooler)
WS200	WaterSET, standard panel for water, temperature up to 200 °C
WS350	WaterSET, standard panel for water, temperature up to 350 °C
SS200	SteamSET, standard panel for steam, temperature up to 250 °C
SS350	SteamSET, standard panel for steam, temperature up to 350 °C
SS450	SteamSET, standard panel for steam, temperature up to 450 °C
SS580	SteamSET, standard panel for steam, temperature up to 580 °C
Code	Width of preparing panel - profiled, stainless steel, with mounting holes in corners
250	250 mm
305	305 mm
400	400 mm
500	500 mm
XXX	Other width according to the needs and technical possibilities (fill width value in mm)
Code	Cooler Type
00	Without cooler (only for WS50)
XX	With high pressure stainless steel cooler
Code	REQUIRED ACCESSORIES
Code	Inlet valve
01	Low pressure inlet valve (up to 200 °C, 20 bar)
02	Medium pressure inlet shut-off valve (up to 350 °C, 60 bar)
03	High pressure inlet shut-off valve (up to 500 °C, 400 bar)
04	High pressure inlet shut-off valve (up to 580 °C, 240 bar)
05	Low pressure inlet shut-off and drain valve (up to 200 °C, 20 bar)
06	Medium pressure inlet shut-off and drain valve (up to 500 °C, 400 bar)
07	High pressure inlet shut-off and drain valve (up to 580 °C, 240 bar)
Code	Reducing valve
01	Low pressure reducing valve (up to 200 °C, 20 bar)
02	Medium pressure reducing valve (up to 350 °C, 60 bar)
03	High pressure reducing valve (above 350 °C)
Code	Constant flow regulator
01	Constant flow regulator of output sample - BPRV (approx. 1.4 bar)
02	Constant flow regulator of output sample (approx. 1.4 bar)
Code	Safety temperature shut-off valve
00	Without temperature shut-off valve (only for WS50)
01	Self-operating temperature shut-off valve, pressure up to 207 bar (without contact, automatic reset)
02	Self-operating temperature shut-off valve, pressure up to 280 bar (without contact, automatic reset)
Code	Connection set
1	Standard connection set (fittings, tube, connecting material)
2	Standard + additional connection set (fittings, tube, connecting material)
Code	Sample output
1	Stainless steel needle valve with outlet fitting for tube 10x2
2	Stainless steel needle valve with outlet tube 4/6
3	Stainless steel ball valve
4	Without fitting
Code	OPTIONAL ACCESSORIES
A	T-filter with strainer
B	Thermometer for measurement of sample temperature placed after the cooler - including fitting
C	Gauge for measurement of sample pressure after the cooler - including fitting
D	Safety valve of cooling water (10 bar) on the cooler shell
E	Measurement of total sample flow (rotameter with drift body), limit contact
F	Measurement of total sample flow (rotameter with drift body)
G	Covering with perforated metal sheet
H	Stainless steel tubes for connection of cooling water, including necessary valves
I	Control valve at the outlet of cooling medium
J	Collecting gutter with outlet (for 1 pc of single panel)
K	Collecting gutter with outlet (for panel in assembly with more than 1 pc)
L	Standard documentation for one panel - German
M	Standard documentation for one panel - English
N	Standard documentation for one panel - Russian
O	Pressure test - including the test certificate
P	Welding certificate
Q	Stainless steel plate (100 x 30 mm) with engraved description
R	Stainless steel plate (40 x 10 mm) with engraved description
S	Cation-exchange column including accessories
T	Sight to the output of cooling water
U	Shut-off valve during draining of "cold side"
V	Drain valve for draining of "cold side"
X	Special requirements - taps for measurement of suspended substances

Example of order: **SS450305010604020223BFHOPQR**

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