



STEAM
Equipments

SAMPLE COOLER

SS-316, Monel / Inconel / Titanium Coils



The sample cooler is a compact unit, specially designed as per ASME SEC-VIII, Div-1 & ASME PTC-19.11 recommendations. to handle high pressure & High temperature applications. These coolers as designed for counter flow cooling to achieve very close temperature approach of the sample to coolant. These cooler as made up of double helix coil which meets ASME D1192 requirements, fitted with a baffle for maximum efficiency. The shell is mounted through flanged connections and it can be removed without disturbing sample lines.

Features

- Single continuous stainless steel tube with no welded joints ensuring long maintenance free operation
- Designed to handle high pressure (250 Bar) & High Temperature (580Deg. C) steam samples
- Shell & Tube design
- Removable Coil for easy replacement.
- Low cost & Compact Design
- On-Line shell cleaning
- IBR / Lloyds approved cooler coils

Optional Features

- Shell relief valves to protect against the unlikely events such as coil failure & coolant failure.
- Monel / Inconel coil coolers for high chloride content cooling water
- Grab Sampling / Root cooler module with panel & accessories.
- Titanium cooler coils for HCL applications & other corrosive applications
- Built-in Thermal relief valve
- High temperature sample shut-off valve

Specifications							
Model Number	Tube Design	Tube Material	Shell Design	Shell Material	Area	C.W. Connection	Sample connection
SC-4-6-SS	250 Bar @580°C	¼"OD, ASTM A213, TP-316, Seamless	10 Bar @200°C	ASTM A312, TP-304	1.2 Sqft	½"NPT (F)	¼"OD
SC-4-12-SS	250 Bar @580°C	¼"OD, ASTM A213, TP-316, Seamless	10 Bar @200°C	ASTM A312, TP-304	2.4 Sqft	½"NPT (F)	¼"OD
SC-4-18-SS	250 Bar @580°C	¼"OD, ASTM A213, TP-316, Seamless	10 Bar @200°C	ASTM A312, TP-304	3.5 Sqft	¾" NPT (F)	¼"OD
SC-6-6-SS	250 Bar @580°C	3/8" OD, ASTM A213, TP-316, Seamless	10 Bar @200°C	ASTM A312, TP-304	1.7 Sqft	¾" NPT (F)	3/8" OD
SC-6-12-SS	250 Bar @580°C	3/8" OD, ASTM A213, TP-316, Seamless,	10 Bar @200°C	ASTM A312, TP-304	3.4 Sqft	¾" NPT (F)	3/8" OD
SC-6-18-SS	250 Bar @580°C	3/8"OD, ASTM A213, TP-316, Seamless	10 Bar @200°C	ASTM A312, TP-304	5.1 Sqft	¾" NPT (F)	3/8" OD

Sample coolers (Raw cooling water chloride above 35ppm)

SC-4-6-IN6	250 Bar @650°C	¼"OD, 20 SWG, Inconel-625,	10 Bar @200°C	ASTM A312, TP-304	1.2 Sqft	½"NPT (F)	¼"OD
SC-4-12-IN6	250 Bar @650°C	¼"OD, 20 SWG, Inconel-625,	10 Bar @200°C	ASTM A312, TP-304	2.4 Sqft	¾" NPT (F)	¼"OD
SC-4-18-IN6	250 Bar @650°C	¼"OD, 20 SWG, Inconel-625,	10 Bar @200°C	ASTM A312, TP-304	3.5 Sqft	¾" NPT (F)	¼"OD

Sample coolers for Boiler feed pump seal cooling

SC-8-12-SS	250 Bar @580°C	½" OD, ASTM A213, TP-316,	10 Bar @200°C	ASTM A312, TP-304	5.4 Sqft	½"NPT (F)	½" OD
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Sample coolers for corrosive sample cooling (e.g. HCL)

SC-6-6-TI	250 Bar @580°C	1/4" OD, 20 swg, Titanium Tube	10 Bar @200°C	ASTM A312, TP-304	1.7 Sq.Ft	½"NPT (F)	1/4" OD
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Data Required for selection of sample cooler.

1. Sample inlet temperature
2. Sample inlet pressure
3. Process Media
4. Cooling water inlet temperature & Quality
5. Sample flow required
6. Sample outlet temperature required.

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