



The Dopak double coil, bucket type sample cooler is an effective and efficient heat exchanger where higher flow is required. Standard tube side material is SS316/316(L). Other material is available on request.

1 FEATURES

- Double helical coil design
- Easy cleaning
- Retained shell side gasket reduces re-assembly time
- A wide variety of exotic alloys is available for corrosion resistance

2 SPECIFICATIONS

Part number	Description	Connection process	Connection coolant in	Connection coolant out	Tube/shell material
2018691	Dopak sample cooler	1/4" tube	3/4" F NPT	1/2" F NPT	SS316 (L)
Maximum allowable working pressure (Coil):		290 bar	@ 350 °C		
Minimum design metal temperature (Coil):		-48 °C	@ 355 bar		
Maximum allowable working pressure (Jacket):		24 bar	@ 148 °C		
Minimum design metal temperature (Jacket):		-48 °C	@ 24 bar		



3 PERFORMANCE DATA

Approach temperature + cooling water inlet temperature = final sample temperature				
Flow rate cc/min	Sample temperature °C			Sample pressure drop (bar)
	149	260	371	
500	0	0	1	0,3
1000	2	1	2	1,0
1500	2	3	6	1,9
2000	4	8	20	3,2
Approach temperature °C				
Typical performance data based on maximum cooling water at 26 l / minute				

Approach temperature + cooling water inlet temperature = final sample temperature				
Flow rate cc/min	Sample temperature °F			Sample pressure drop (psi)
	300	500	700	
500	0,5	0,8	1,5	4
1000	1,5	2	4,5	15
1500	3	5,5	11	28
2000	7,5	15	37	47
Approach temperature °F				
Typical performance data based on maximum cooling at 7 GPM				

4 OPTIONS

- Temperature indicator
- (Throttling) Needle valve
- Block valves and / or drain valves
- Thermal relief valve
- Exotic alloy tube and shell material (Including but not limited to Monel, Hastelloy, (Super)Duplex, Alloy 625/825)

5 ALTERNATIVES

- ½" Single coil sample coolers
- Pipe spec. sample coolers (1/2" 3/4" or 1" size available)

Note:

Dopak sample coolers are exempt from CE marking per Pressure Equipment Directive (PED) 97/23/EC. The vessels are below or equal to the limits set forth in Article 3, Sections 1.1, 1.2, 1.3 and section 2 as applicable and are designed and manufactured in accordance with Sound Engineering Practice (SEP). Specifically, the vessels meet the general requirements of the ASME Section VIII, Division 1 Boiler And Pressure Vessel Code. The nameplate will bear the name of Dovicus B.V. and safety instructions will be included per Article 3, Section 3.

For any other information required, please contact our sales department at Bergschenhoek, Houston (US) or your local Dopak representative.

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