

DOPAK® Component sheet

Single coil, tube/shell type sample cooler





A Dopak single coil, tube/shell type sample cooler is an effective and efficient heat exchanger. The compact design makes it easy to install, next to a Dopak sampling system mounted on a stainless steel support plate. It protects the sampling system against high temperatures and ensures safe sampling.

1 FEATURES

- Compact single coil design
- High cooling capacity
- A wide variety of exotic alloys is available for corrosion resistance

2 SPECIFICATIONS

Part number	Description	Connection process	Connection coolant	Tube/shell material			
2011648	Dopak sample cooler	1/4" tube	3/8″ F NPT	SS316 (L)			
Maximum allowable working pressure (Coil): 235 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				
400	1	1	3	0,2			
500	1	2	3	0,3			
600	2	3	6	0,4			
800	3	8	18	0,7			
	Appro	oach temperatu	ire °C				
Typical performance data based on maximum cooling water at 12 l /minute							

Approach temperature + cooling water inlet temperature = final sample temperature							
Flow rate	Sample temperature °F			Sample pressure drop (psi)			
cc/min	300	500	700				
400	1	2	5	3			
500	2	3	6	4			
600	3	5	10	6			
800	5	14	32	10			
	Appr	oach temperatu	ure °F				
Typical performance data based on maximum cooling at 3 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

- 1/2" 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 Dovianus 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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