EagleBurgmann
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RELY ON EXCELLENCE

WDK

Seal Supply Systems | Heat exchangers

Features

WDK5120 heat exchangers are used to cool process/barrier fluids in seal supply circuits. The heat exchanger has a wound double helix around the guide tube. Process/barrier medium in the tubes, cooling medium around the tubes.

Circulation based on API 682 / ISO 21049: Plan 21, Plan 22, Plan 23, Plan 41

Notes

Mount vertically with connections pointing up. Provide for external venting on the process/barrier medium side (the user has to install a vent at the highest point of the pipe work).

Cleaning:
Cooling water side: the area around the tubes can be cleaned mechanically after the housing is removed.
Buffer medium side: flush with a suitable solvent.

Advantages

- Effective cooling: with wound double helix around a guide tube
- Cooling capacity up to 10.5 kW
- Excellent value for money
- Vessel can be dismantled: for optimum cleaning of the cooling water side
- Universal usage: parts in contact with the buffer medium are made of 1.4571

Standards and approvals

- PED 2014/68/EU, Art. 4, Paragraph 3 (Design and production in accordance with EU Pressure Equipment Directive, without CE-Sign)

Recommended applications

- Chemical industry
- Petrochemical industry
- Power plant technology
- Refining technology
- Oil and gas industry

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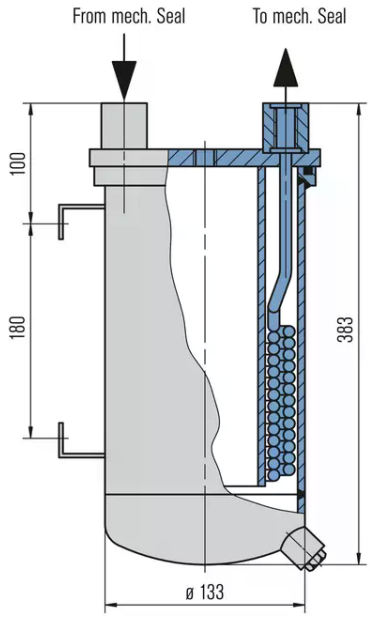

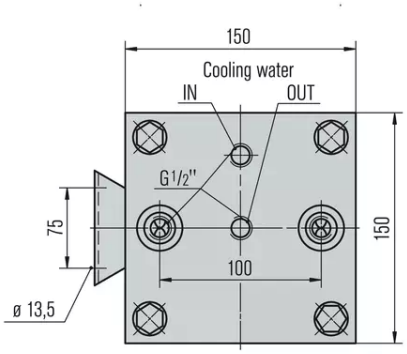

Installation, details, options

Product variants

****	WDK5
Cooler design	Tube coil, dismantable
Conformity	
Design code	PED2014/68/EU
Weight (empty)	10 kg
Process fluid	
Process connections1)	G 1/2" (inside)
Design pressure1)	120 bar (g)
Design temperature1)	150 °C
Material (metal parts)1)	1.4571
Cooling water	
Process connections1)	G 1/2" (inside)
Drain / vent connection1)	G 1/4" (inside)
Design-pressure1)	16 bar (g)
Design temperature1)	95 °C
Material (metal parts)1)	P235/265GH
Cooling capacity depending on process fluid	(low flow2) / high flow3))
Water	6,5 kW / 9,5 kW
Öl ISO VG10	3,3 kW / 5,0 kW

[1]) further versions available upon request (e.g. operating conditions, flange connection 1500 lbs, duplex material, etc.)
[2]) Low Flow: 8 l/min (process fluid), 10 l/min (cooling water), ΔT = 40 K (hot-cold)
[3]) High Flow: 15 l/min (process fluid), 20 l/min (cooling water), ΔT = 40 K (hot-cold)
The cooling performance depends on the available fluids, their temperatures and flow rates. Please contact EagleBurgmann for professionally selecting the correct heat exchanger.