RELY ON EXCELLENCE

WEL1

Seal Supply Systems | Heat exchangers

Features

Heat exchangers of the WEL1000 range are used to cool process/barrier fluids in seal supply circuits. The heat exchangers are made of straight, laser-welded finned tubes. The cooling medium is ambient air. It is important, therefore, for WEL heat exchangers to be installed in well ventilated places indoors or, ideally, outdoors. There is a choice of two different basic versions of the WEL1000 range (1 or 2 tubes), supplied fully assembled along with valves, base frame and other system components.

Circulation in accordance with API 682 / ISO 21049: Plan 21, Plan 22, Plan 23, Plan 41

Notes

WEL heat exchangers should be installed in well ventilated places indoors or, ideally, outdoors. Vertical installation is essential.

Advantages

- Welded finned tubes without gaps for guaranteed optimum energy transmission
- Universal usage: high-quality 1.4571 stainless steel finned tube design
- No cooling water connection or heating required for the cooling water pipe in winter
- There is a choice of two different basic versions

Standards and approvals

- PED 2014/68/EU (Design and production in accordance with EU Pressure EquipmentDirective)
- ASME VIII, Div. 1 (Calculation)

Recommended applications

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

eagleburgmann.com
info@eagleburgmann.com

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.

Installation, details, options

Product variants

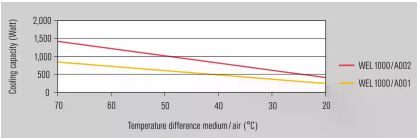
****	WEL1	WEL1
Cooler design	1 finned tube, straight	2 finned tubes, straight
Conformity		
Design code	PED2014/68/EU	PED2014/68/EU
Weight (empty)	5 kg	14 kg
Process fluid		
Process connections1)	G 1/2" (female)	G 1/2" (female)
Drain / vent connection1)		
Design pressure1)	110 bar (g)	110 bar (g)
Design temperature1)	200 °C	200 °C
Material (metal parts)1)	14.571	14.571
Cooling capacity depending on process fluid	(low flow2) / high flow3))	(low flow2) / high flow3))
Water	0,2 kW / 0,5 kW	0,6 kW / 0,8 kW
Oil ISO VG10	0,17 kW / 0,3 kW	0,5 kW / 0,6 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), 0.7 m/s (Wind speed), ΔT = 40 K (Tfluid - Tambient)

3) High Flow: 15 l/min (process fluid), 1.0 m/s (Wind speed), ΔT = 40 K (Tfluid - Tambient)

Charts



Cooling capacity: Values based on moved air min. 0.7 m/s and barrier fluid water.

The cooling performance depends on the available fluids, their temperatures and flow rates. Please contact EagleBurgmann for professionally selecting the correct heat exchanger.

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