

RELY ON EXCELLENCE

WEL1

Seal Supply Systems | Heat exchangers



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 Equipment Directive)
- ASME VIII, Div. 1 (Calculation)

Recommended applications

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

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.

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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 connections ¹⁾	G 1/2" (female)	G 1/2" (female)
Drain / vent connection ¹⁾		
Design pressure ¹⁾	110 bar (g)	110 bar (g)
Design temperature ¹⁾	200 °C	200 °C
Material (metal parts) ¹⁾	14.571	14.571
Cooling capacity depending on process fluid	(low flow ²⁾ / high flow ³⁾)	(low flow ²⁾ / high flow ³⁾)
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), $\Delta T = 40 \text{ K}$ (Tfluid - Tambient)

³⁾ High Flow: 15 l/min (process fluid), 1.0 m/s (Wind speed), $\Delta T = 40 \text{ K}$ (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.