

RELY ON EXCELLENCE

WEL6 Air cooler

API 682 4th edition | Seal supply systems | Coolers



Features

Heat exchangers of the WEL6000A4 range (shown here: WEL6002A4) are used to cool process/barrier fluids in seal supply circuits. The heat exchangers are made of helical, 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 three different basic versions of the WEL6 range as well as being supplied fully assembled together with valves, base frame and other system components.

Notes

PED 2014/68/EU (Design and production in accordance with EU Pressure Equipment Directive) or ASME VIII, Div. 1 (Calculation based on ASME VIII, Div. 1 - cooler not subject to ASME stamp requirements, piping <6")

Advantages

- Operating limits up to 44 bar / 260 °C (638 PSI / 500 °F) (tube side): suitable for a wide range of demanding operating conditions.
- Can be completely vented and drained
- Seamless pipes
- Stainless steel 316/316L: high resistance to corrosive media

Standards and approvals

- API 682 / ISO 21049
- API 682 4th ed. Cat. 2/3 - 1CW-FL
- API 682 4th ed. Cat. 2/3 - 2CW-CW
- API 682 4th ed. Cat. 2/3 - 2CW-CS
- API 682 4th ed. Cat. 2/3 - 3CW-FB
- API 682 4th ed. Cat. 2/3 - 3CW-BB
- API 682 4th ed. Cat. 2/3 - 3CW-FF
- API 682 4th ed. Cat. 1 - 1CW-FX
- API 682 4th ed. Cat. 1 - 2CW-CW
- API 682 4th ed. Cat. 1 - 3CW-FB

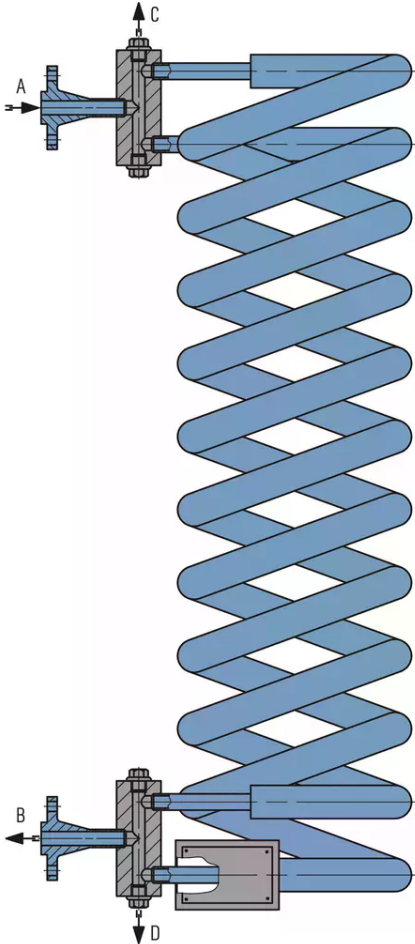
Recommended applications

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

Recommended piping plans

- [Plan 21](#)
- [Plan 22](#)
- [Plan 23](#)
- [Plan 41](#)

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WEL6002A4

- A From mechanical seal
- B To mechanical seal
- C Vent
- D Drain

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Installation, details, options

Product variants

Designation	WEL6001A4A001-D0	WEL6002A4A001-D0	WEL6004A4A001-D0
Type of heat exchanger	ASME	PED	ASME
Number of finned tubes	1	2 finned tubes switched in parallel	2 finned tubes switched in parallel and doubled length
Connections	Flange 3/4", 600 lbs	Flange 3/4", 600 lbs	Flange 3/4", 600 lbs
Drain / vent connection	Flange 1/2", 600 lbs 4)	Flange 1/2", 600 lbs 4)	Flange 1/2", 600 lbs 4)
Allowable pressure ¹⁾	44 bar(638 PSI)	44 bar(638 PSI)	44 bar(638 PSI)
Allowable temperature process / barrier medium side (tube side) 1)	-29 °C ... +260 °C (-20 °F ... +500 °F)	-29 °C ... +260 °C (-20 °F ... +500 °F)	-29 °C ... +260 °C (-20 °F ... +500 °F)
Cooling capacity (kW) ²⁾	1.5	2	3
Cooling capacity (kW) ³⁾	0.9	1.4	1.8
Volume (liters)	0.7	1.1	1.5
Metal parts	316/316L	316/316L	316/316L

Other versions on request.

- 1) Design data, permissible working values depend on the actual conditions of service.
- 2) Guidelines with barrier/buffer fluid water 60 °C (140 °F) - ambient temperature 20 °C (68 °F); moved air at min. 0.7 m/s (2.3 ft/s); product flow rate 8 l/min.
- 3) Guidelines with barrier/buffer fluid oil 60 °C (140 °F) - ambient temperature 20 °C (68 °F); moved air at min. 0.7 m/s (2.3 ft/s); product flow rate 8 l/min.
- 4) Version with screwed connection G1/2" available as an option.