SHARK COOLER

Heat Exchangers

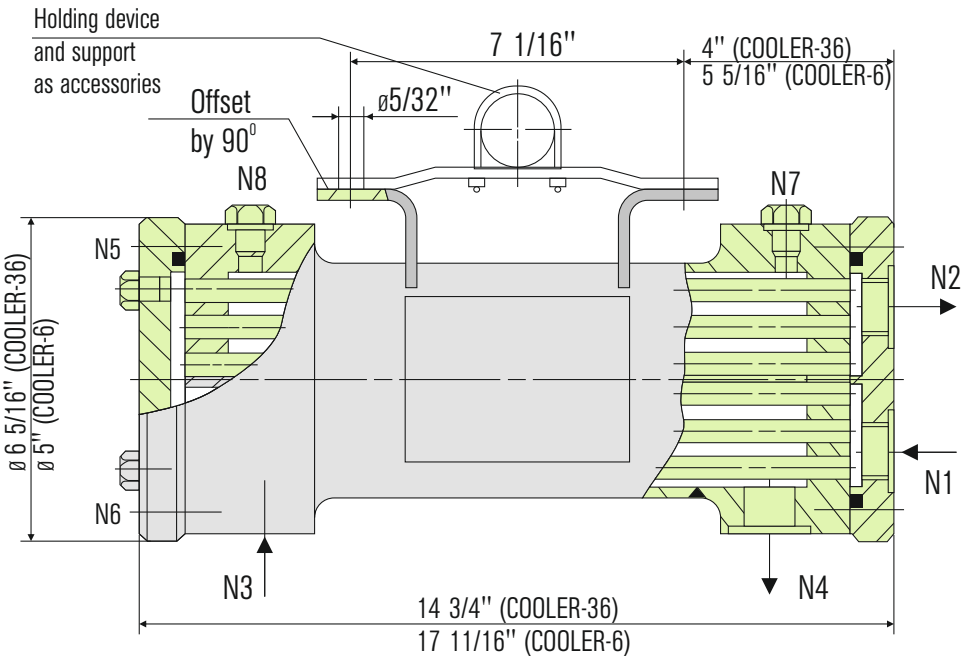
Product Description

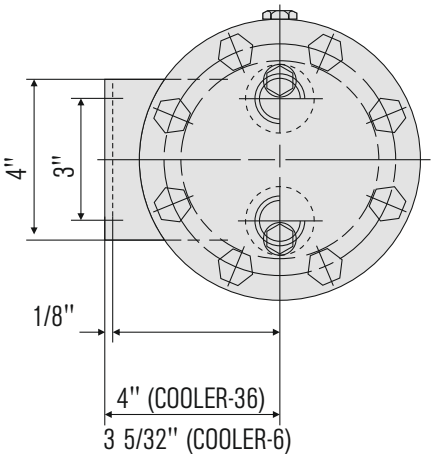
SHARK COOLER Heat exchangers are used to cool process/barrier fluids in seal supply circuits. Designed as a tubular heat exchanger with integrated guide plates, the process/barrier medium is directed through the shell of the unit and the cooling medium through the tubes.

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

Technical Features

1. Cooling capacity of 6 kW (COOLER-6) and 36 kW* (COOLER-36)
2. It can be installed either in vertical or horizontal position
3. The heat exchanger can be dismantled: easy to clean
4. Tubular heat exchanger design with integrated guide plates, extremely efficient cooling capacity yet very compact dimensions
5. Universal compatability: parts in contact with the medium are made of stainless steel





Connections	
N2	Cooling water OUT
N1	Cooling water IN
N4	Process/barrier medium OUT
N3	Process/barrier medium IN
N7/N8	Process/barrier circuit vent
N5	Cooling circuit vent
N6	Cooling water drain

Other versions on request.

1) These values are based on maximum pressure.

2) These values are based on maximum temperature.

***) Based on water as the process fluid**

Typical Industrial Applications

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

Notes

Cleaning:

Process side (shell): The area around the tubes can be cleaned mechanically after the housing is removed

Cooling water side (tubes): flush with a compatible solvent.

Standards

ASME VIII, Div. 1 (Design, calculation and production)

PED 97/23 EC (Design and production in accordance with EU Pressure Equipment Directive)

Technical Data COOLER-6/COOLER-36

Designation	Tubes (cooling water)	Shell (process)
Maximum pressure 1)	230 PSIG	1900/ 1600 PSIG
Maximum temperature 1)	300 °F	300 °F
Inlet temperature 2)	85 °F	150 °F
Maximum Flow (gpm) 2)*	4.4/26.0	2.2/13.2
Volume (gallons)	0.06/0.20	0.37/0.48
Weight (lbs)	31/53	
Cooling capacity (kW)*)	6/36	
Metal parts	SS 316	
O-Rings	Viton®	
Gaskets	PTFE	
Screws	Stainless steel A4-70	

SHARK SEALS