HEW

HEW HEAT EXCHANGERS FOR API PLAN 21, PLAN 23 OF MECHANICAL SEAL





PRODUCT FEATURES

- The cooler adopts serpentine coil inside, convection heat transfer, heat exchange area is fully utilized, heat exchange effect is good, TUBE coil system, outer wall polishing Ra≤0.4μm, increase heat exchange efficiency, and is not easy to scale.
- The outlet of the cooler is equipped with universal shock resistant bimetal thermometer, which can adjust the Angle arbitrarily, so that the on-site staff can conveniently monitor the temperature of flush liquid in real time.
- The back bracket adopts the design of hanging ear, which is convenient for on-site installation and disassembly.
- The top is equipped with exhaust device to facilitate the heat exchange system exhaust for Plan 23.

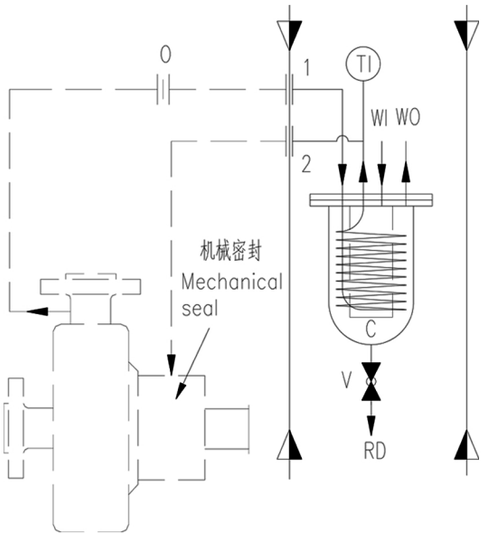
SYSTEM MATERIALS

Storage tank	Carbon steel / Stainless steel
Heat exchange tubes	304SS / 316L

PRODUCT APPLICATION

For API Plan 21

1. HE series heat exchange system can be used for single seals alone or combined with THS series thermosiphon system for double seals.
2.After the pumped fluid is cooled by the cooler, meet secondary sealing element temperature limits to reduce coking or polymerizing.
3.Improve the lubrication performance of the seal end face.
4.Provide enough differential pressure to achieve a good flush flow rate.



ITEM	SERVICE
RD	Cooler Drain
O	Flow control orifice
C	Cooler
1	From high-pressure region of pump
2	Flush
WI	Cooling Water Inlet
WO	Cooling Water Outlet
V	Valve
TI	Temperature Gauge

SYSTEM PARAMETERS

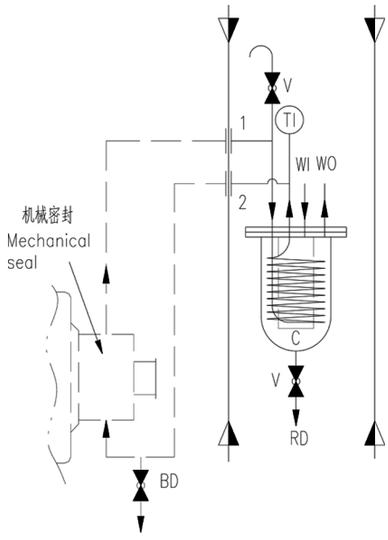
Temperature	-20°C~ +200°C
Pressure	30Bar
Pressure	35bar
heat exchange area	0.24m², 0.4m²

APPLICABLE INDUSTRIES

- Process pumps
- Mixer and agitators
- Elevated pressure and heat dissipation requirements
- Wide range of applications requiring high reliability across oil and gas, chemical and general Industry, and high-purity and organics

For API Plan 23

1.HE series heat exchange system cools only that fluid in which the seal operates, and this cool fluid does not enter the process, This results in high energy efficiency. Lessening the duty is very desirable because it extends the life of the cooler.
2.HE series heat exchange system is only used to remove the friction heat generated by the seal end face and the heat absorption of the process medium, which can effectively reduce the heat load of the cooler. Compared with Plan21 and 22, the heat load is lower, thus prolonging the life of the cooler.
3.Piping Plan 23 is the plan of choice for all hot water services, particularly boiler feed water, and many hydrocarbon services. This plan is the standard selection for hot water at 80 °C (180 °F) and above, and boiler feed water.



ITEM	SERVICE
RD	Cooler Drain
BD	Piping Fluid Drain
C	Cooler
1	Flush From Seal
2	Flush To Seal
WI	Cooling Watar Inlet
WO	Cooling Water Outlet
V	Valve
TI	Temperature Gauge

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