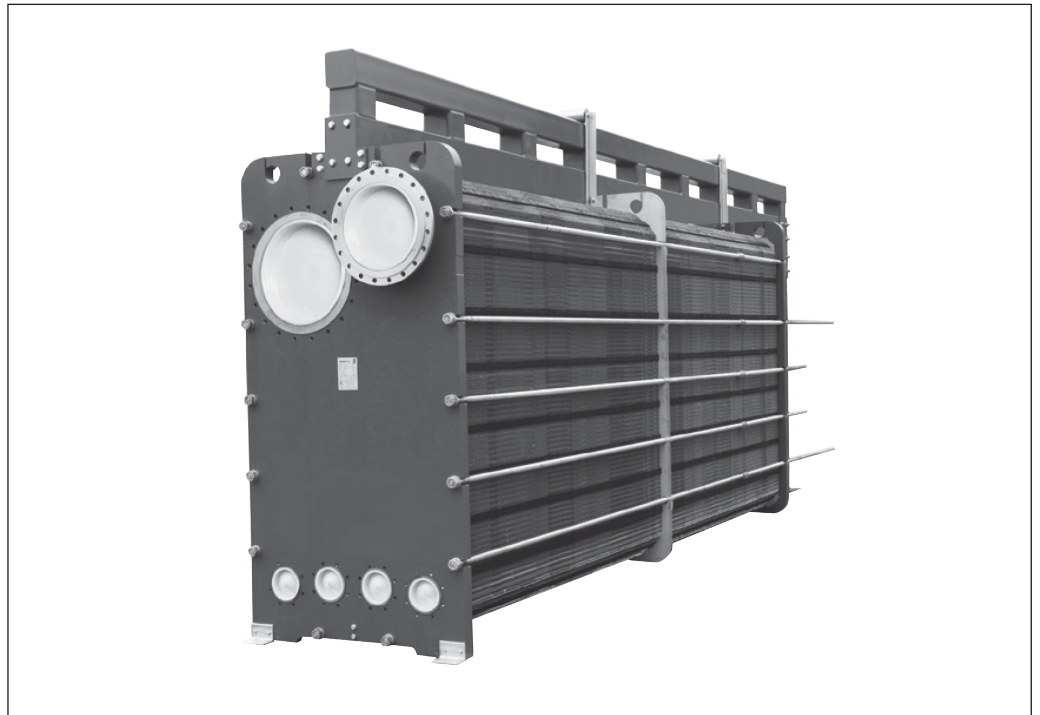


Data sheet

SEC174

Rising Film Evaporator

Description



Recommended Applications

The SEC174 Sondex plate evaporator is a specially developed heat exchanger for evaporation duties.

Design Principle

The plate is designed as a semi-welded cassette, with a welded channel for the medium side, and on the evaporation side there is a traditional plate heat exchanger gasket.

The unique plate design ensures an even distribution of the product over the whole plate making optimal rising film evaporation. The special designed plate pattern ensures a high turbulence of the fluids on both sides, resulting in a high heat transmission co-efficient. This results in a very compact heat exchanger with a small hold-up volume.

Installation:

The large DN600/24" connection on the evaporator makes it possible to cover many duties in a single connection solution. This means that the connections will be on the head of the heat exchanger, which is of big advantage during service work and if the capacity is to be increased.

The plate pattern and inlet area are also designed for CIP cleaning, which makes the service of the plate heat exchanger easy.

Data Required for Correct Quotation:

- Duty
- Flow rate
- Temperature
- Type of media
- Working pressure
- Working Temperature
- Pressure loss
- Boiling point
- Thermodynamic properties
- Preferred number of effects
- Product concentration by inlet and outlet

Above data determines the choice of heat exchanger.

Technical data

Frame

Painted frame, colour RAL 5010
(available in other colours)
The frame comes with clamping bolts placed
around the frame edge.

Design Pressure

Painted frames: 0.6/1.0 MPa. (87/145 PSI)

Construction Standard

- EN13445 (PED 2014/68/EU)
- ASME sec VIII, Div. 1

Connections:

Inlet product side (F4 & F5): DN150/6" flange.
• Outlet (F1): DN600/28" flange.
• Inlet medium side (F2): DN450/18" flange.
• Outlet (F3 & F6): DN150/6" flange.
Flanges in carbon steel, rubberlined or
stainless steel. According to all known
standards.

Plate Material

AISI 304 and AISI 316
Other materials available on request.

Gaskets

The gasket is placed in the closed gasket
groove, that is formed by the plates. This
design makes the plate suitable for high
working pressures. The plates are strongly
guided by the gasket during the assembly of
the plate heat exchanger.
Materials: NBR and EPDM
Other materials available on request.

Extra Equipment:

- Safety cover in stainless steel
- Insulating jacket
- Assembling spanner
- Foundation feet
- Instrument flange
- Thermometer and manometer

Dimensions

