



SWC136 Condenser

SONDEX®

Recommended Applications:

The SWC136 Sondex condenser is specially developed for condensing of low pressure vapour.

Design Principle:

The plate is designed as a semi-welded cassette, with a welded channel for the condensing side. On the medium side there is a traditional plate heat exchanger gasket. The unique plate design makes it possible to utilize almost the whole plate area as heat transmission area. This plate is designed in two different plate patterns on the welded side. For dirty and fibre products, the plate is designed with a wide gap plate pattern. For clean products the plate pattern is on both the welded side as well as the medium side a herring bone pattern. The plate has a combination of two different plate patterns heights. This makes it optimal for keeping a low pressure drop on the welded side and at the same time a high turbulence on the medium side. This results in a high heat transmission.

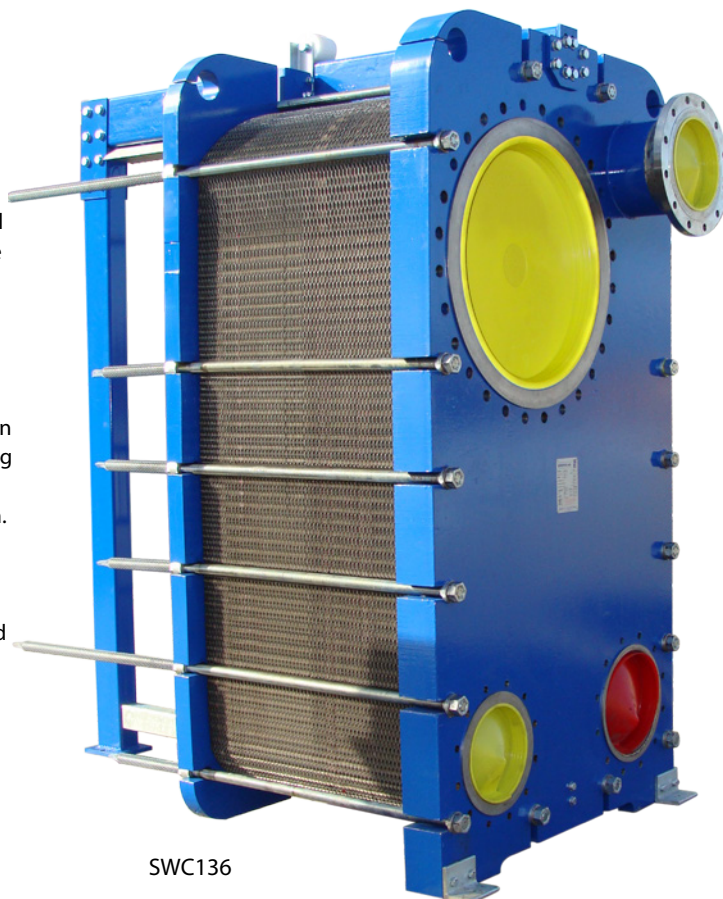
Installation

The DN800 / 32" Vapour connection makes it possible to cover many duties in a single pass solution. All connections will thus be on the head of the heat exchanger, which is of big advantage during service work. The plate pattern and inlet area are also designed for CIP cleaning making the service of the PHE easy.

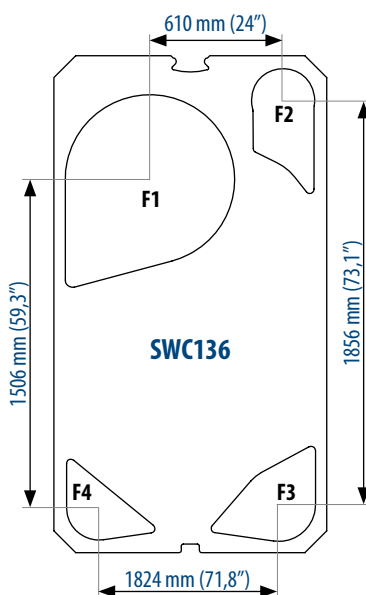
Data Required for Correct Quotation:

- | | | |
|-----------------|----------------------------|---|
| • Duty | • Flow rate | • Temperature |
| • Type of media | • Working pressure | • Working Temperature |
| • Pressure loss | • Thermodynamic properties | • Product concentration by inlet and outlet |

Above data determines the choice of heat exchanger.



SWC136



Technical Information

Frame:

- Painted frame, colour RAL 5010 (available in other colours)
- Both frames 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 (F1): DN800/32" flange.
 - Outlet (F3): DN350/14" flange.
 - Inlet medium side (F4): DN300/12" flange.
 - Outlet (F2): DN300/12" flange.
- Flanges in carbon steel, or stainless steel.
According to all known standards.

Plate Material:

- AISI 304 and AISI 316.
- Also 2 x 0.4 mm "Sonder Safe" plates, for food and industry.
- 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 for frame

For exact dimensions of the PHE please refer to the dimension drawing