



**SONDEX®**

## ▶ SG56 Plate Heat Exchangers

### Recommended Applications:

The SG56 plate heat exchanger from Sondex is specially designed for the oil and gas, marine and industrial areas as well as the industrial food and dairy market.

### Design Principle:

The SG56 plate with a length up to 1,5 m (5,1 ft) and a "long" thermal pattern will cover many duties up to 300 m<sup>3</sup>/h (1321 gpm) in a single pass solution, meaning that all the connections are on the head side. This will ensure easy pipe- and service work, and by dismantling the exchanger for service, no pipes need to be removed.

The heat transfer is obtained, when the warm medium transfers energy through the thin, strong flow plates between the channels and delivers it to the cold opposing medium without mixing the two media.

Counter-current flow creates the optimal efficiency. The plate- and inlet design allows effective, easy CIP (Cleaning in Place) of all "flow" surfaces.

### Flow plates:

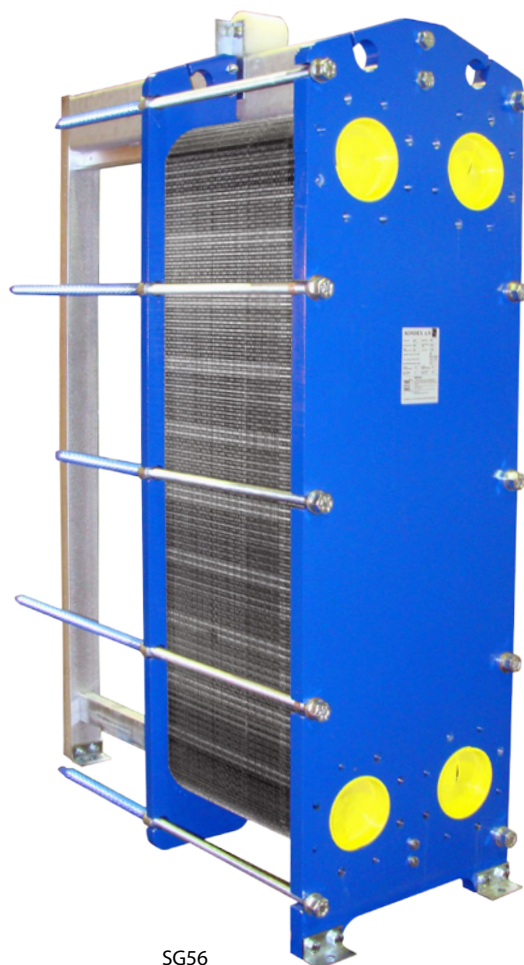
The corrugated "herringbone" pattern ensures turbulent flow in the whole effective area. Furthermore, this pattern brings "metallic" contact between the plates, and together with "Sonder Lock" locking devices on the gaskets, the plate pack is easily assembled.

The plate pack is held firm and safely between the fixed head and movable follower of the frame.

### Data Required for Correct Quotation:

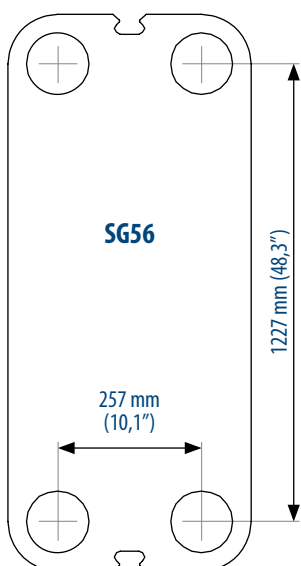
- Duty
- Flow rate
- Temperature
- Type of media
- Working pressure
- Working Temperature
- Pressure loss
- Thermodynamic properties

Above data determines the choice of heat exchanger.



SG56

### Technical Information



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

#### Frame:

- Painted frame, colour RAL 5010 (available in other colours)
- Stainless steel frame, designed for the food and dairy industry. Both frames comes with clamping bolts placed around the frame edge.

#### Design Pressure:

- Painted frames: 1.0/1.6 MPa. (145/232 PSI)
- Stainless steel frame: 1.0/1.6 MPa. (145/232 PSI)

#### Intermediate Frames:

Intermediate frames and corner blocks for IS and FS frames in stainless steel.

#### Construction Standard:

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

#### Connections:

- DN125/5" flange in carbon steel, rubberlined or clad with AISI 316 or titanium. According to all known standards.

#### Plate Material:

AISI 304/316, 254 SMO and titanium. Also 2 x 0.4 mm "Sonder Safe" plates, for food and industry. Other materials available on request.

#### Gaskets:

The gasket is the unique non-glued "Sonder lock" gasket which locks the plates together with strong rubber buttons, so that the plates are strongly guided 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