**Recommended Applications:**
The S21/S22, S36+S47 and S64 range of Sondex plate heat exchangers is specially designed for the HVAC area, the geothermal-, marine- and heat recovery area as well as for the industrial- and chemical market.

**Design Principle:**
The Sondex plate range with lengths up to 1.9 m and up to extra “long” thermal pattern, will cover many duties up to 150 m³/h in a single pass solution, which means that all 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. Countercurrent flow creates the optimum efficiency.

The plate- and inlet design allows an effective and 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 lock 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 frames.

**Data Required for Correct Quotation:**
Duty, flow rate, type of media, temperatures, working pressure, pressure losses and thermodynamic properties determine the choice of exchanger type, size of heat surface and plate pattern.

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### Technical Information

**Frame:**
- Painted frame with the clamping bolts placed around the frame edge.
- Standard colour by painted frame: Blue RAL 5010.
- Available in other colours.

**Working pressure:**
The painted frames are designed for working pressure: 0.6/1.0/1.6/2.5 MPa

**Intermediate Frames:**
- Intermediate frames and corner blocks for IS and FS frames in stainless steel.

**Construction Standard:**
- According to PED 97/23/EC: A-D “Merkblätter”
- According to ASME CODE: ASME VIII, DIV. 1

**Connections:**
- DN100 flange Carbon steel, rubberlined or cladded, with
- AISI316 or titanium.
- According to all known standards.
- 3” & 4”/DN80/100 dairy unions. According to all known standards.

**Plates:**
- Standard material: AISI 304, AISI 316 and titanium, 254 SMO.
- Also 2 x 0.4 mm “Sonder Safe” plates.
- Not standard: Hastelloy C 276 and other pressable materials.

**Gaskets:**
The gaskets are the unique “Sonder Lock” or “hang-on”, non-glued type. Standard material: Nitrile, EPDM and Viton.

**Extra Equipment:**
- Safety covers in stainless steel.
- Insulating jacket.
- Assembling spanner.
- Foundation feet for frame.
CONNECTIONS:
DAIRY UNION
RUBBERLINE/CLADDED PAINTED

MOUNTING IS/IG (IS PN10)

FRAME SIZE | DIMENSION H | DIMENSION C | DIMENSION B
---|---|---|---
S21a/S22 | 1069/42.39" | 719/28.27" | 495/19.49"
S36 | 1425/56.00" | 1065/41.93" | 749/29.42"
S47 | 1735/69.05" | 1365/53.74" | 499/19.00"
S64 | 2162/85.82" | 1771/69.76" | 490/18.90"

FRAME SIZE | DIMENSION H | DIMENSION C | DIMENSION B
---|---|---|---
S21a/S22 | 1038/40.74" | 719/28.31" | 495/19.49"
S36 | 1428/56.82" | 1065/41.93" | 749/29.42"
S47 | 1738/69.78" | 1365/53.74" | 490/18.89"
S64 | 2162/85.82" | 1771/69.76" | 490/18.89"

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The manufacturer reserves the right to change the specifications in force at any time.