**Recommended Applications:**
The S37 & SN51 range of Sondex plate heat exchangers are specially designed for the HVAC area, heat recovery, the food-, industrial- and chemical market.

**Design Principle:**
The Sondex type S37 & SN51 plate range with lengths up to 1.63 m and “long” thermal pattern, will cover many duties up to 120 m³/h 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 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, media type, temperatures, working pressure/temperature, pressure losses and thermodynamic properties determine the choice of exchanger, size of heat surface and plate pattern.

**Technical Information**

<table>
<thead>
<tr>
<th>Frame: Painted frame with the clamping bolts placed around the frame edge.</th>
<th>Intermediate Frame: Intermediate frames and corner blocks for IS and FS frames in stainless steel.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working pressure: The painted frames are designed for the working pressure available: 1.0 MPa and 1.6 MPa.</td>
<td>Connections: DN 100 flanges. In carbon steel or rubberlined. According to all known standards 3”/DN80 dairy or union. According to all known standards.</td>
</tr>
<tr>
<td></td>
<td>Plates: Standard material: AISI 316 and titanium. Also 2 x 0.4 mm “Sonder Safe” plates. Not standard: 254 SMO, hastelloy C 276 and other pressable materials.</td>
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<tr>
<td></td>
<td>Gaskets: The gaskets are the unique “Sonder Lock”, non-glued type. Standard material: Nitrile, EPDM and viton.</td>
</tr>
</tbody>
</table>
CONNECTIONS:

DAIRY UNION

RUBBERLINE / CLADDED

PAINTED

Aston Technology Ltd, Unit 219 Block C, Blanchardstown Corporate Park, Ballycoolin, Dublin 15
T: (01) 885 3280, F: (01) 885 3281, E: info@aston.ie, W: www.aston.ie