Cooling

SONDEX

BRAZED PLATE HEAT EXCHANGER

Heating
SONDEX A/S is a Danish company specialised in development, production and global marketing of plate heat exchangers and freshwater distillers. Since the very start in 1984 SONDEX has grown to one of the leading companies on the world market and has developed a big range of plate heat exchangers for any task. Apart from our traditional plate heat exchangers the product range includes copper brazed, semi-welded and all-welded plate heat exchangers as well as freshwater distillers based on the plate heat exchanger technology in single- or multistage.

Subsidiaries and a global net of highly educated suppliers take care of sale and marketing of our products. The successive product development has made SONDEX a company with a very high growth rate.

By means of technological innovation SONDEX has developed and designed a new generation of brazed plate heat exchangers.

In this brochure we will present the advantages of the Sondex brazed plate heat exchanger to you.

SONDEX brazing vacuum ovens.

Construction and mode of operation
SONDEX brazed plate heat exchanger consists of: A number of thin, acid-resistant plates, precision stamped and assembled as a unit, each alternate plate being rotated 180°.

The plate pack, assembled with two end plates and connections, is vacuum brazed at extremely high temperatures providing a permanently sealed heat exchanger. The final result is a strong and compact plate heat exchanger with extremely high heat transmissions. The high heat transmission comes from the main pattern which is designed to create a turbulence flow.
Advantages of Brazed Plate Heat Exchanger

Low Purchase Price
High technical efficiency combined with thin plate material and low production costs keeps the SONDEX sales price of the brazed plate heat exchanger at an extremely competitive level.

High Temperature and Pressure
Contrary to the traditional plate heat exchanger the brazed plate heat exchanger does not contain rubber gaskets and can thus operate continuously at temperatures from minus 180°C up to plus 200°C. The operating pressure can be as high as 30 bar.

Small Volumes
The high efficiency of the brazed plate heat exchanger makes the product volume in the heat exchanger minimal compared to for example tube heat exchangers reducing the volume of refrigerant to a minimum.

Self Cleaning
The high turbulence on the plates prevents or minimizes blockages in the heat exchanger.

Compact Size
Sondex brazed plate heat exchanger gives a space and weight-saving of up to 80% compared with a tube heat exchanger.

Application
SONDEX brazed plate heat exchanger can be utilized for heating and cooling of clean liquids. Furthermore, the SONDEX brazed plate heat exchangers are suitable as evaporator and condenser units.

Typical Applications are
• District heating/heating and ventilation
• Solar heating and air-conditioning units
• Heating pumps and heat recovering units
• Hydraulic oil units
• Refrigeration
• Compress air units

Approval:
Our Brazed heat exchangers are approved according to Modul A1 Pressure Equipment PED 97/23/EG, TÜV Nord CE 0045.
The large range of Sondex Brazed Plate Heat Exchangers

Sondex has developed a range of brazed plate heat exchangers which totally meets the demand for this type of heat exchangers. Our product range includes connection sizes from 1/2" threaded pipe to DN100-PN25 flanges. In addition to this the plates for several of our model types have various press depths and plate patterns making it possible to optimize the technical solution according to customer’s specification.

Additional Equipment

In order to obtain the optimal utilization of a Sondex brazed plate heat exchanger, a correct installation is of big importance, and here Sondex can offer you following:

**Foot Unit**
A foot unit leading to a correct and safe installation of the heat exchanger.

**Insulation Jackets**
A specially designed insulation jacket adjusted to the temperature conditions according to the design of the heat exchanger.

**Connection Fittings**
We recommend Sondex original connection fittings in order to secure a correct connection of the heat exchanger to the pipe system.

<table>
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<th>Type</th>
<th>B (mm)</th>
<th>H (mm)</th>
<th>t (mm)</th>
<th>h (mm)</th>
<th>D (mm)</th>
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