Gasketed plate heat exchangers

Precision in heat exchange

For sustainable exchanges ...
Controlled heat exchange

Thanks to their excellent heat-transfer coefficients and their slim design, Thermofin’s gasketed plate heat exchangers have established themselves as an alternative to Shell and Tube heat exchangers in many fields. Thermofin reasserts its expertise as a manufacturer with the ITEX range, with capacities ranging from kilowatts to a number of megawatts.

Diagram illustrating the direction of flow in a single-pass exchanger.

ITEX heat exchangers can be used for many applications, from heating to cooling.

→ Cooling
- Oil cooling
- District cooling sub-stations
- Marine, sea water applications
- Industrial processes

→ Heating
- Heat recovery on corrosive agent
- Domestic water heating
- Geothermal, solar, swimming-pool
- Greenhouses
- District heating
- Industrial processes
Ultra-exact selection

Validated by our partner’s Research & Innovation Centre, the ELSA selection software is based on a powerful thermal design engine. The compatibility of fluids and materials is ensured by a continuously enriched database.

Thermofin’s range of heat exchangers is highly modular. To determine which models are exactly suited to your needs, the ELSA software analyses your thermal needs and allowable pressure losses for fluids. This is primordial during selection as it has an impact on plate selection and, thus, on the heat transfer area.

Different options are available for various applications

Cold insulation
Condensate draintray
Hot insulation

And also:
- Shroud
- ATEX version for explosive area
- Stainless steel frame
The ITEX range has been developed to meet your most exacting needs. Thermofin has an extensive stock of plates and holds complete control over the design, assembly and quality management related to the construction of the ITEX range.

<table>
<thead>
<tr>
<th>Size</th>
<th>Flow Rate (USGPM)</th>
<th>Flow Rate (m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4&quot;</td>
<td>90 USGPM</td>
<td>19 m³/h</td>
</tr>
<tr>
<td>2&quot;</td>
<td>275 USGPM</td>
<td>63 m³/h</td>
</tr>
<tr>
<td>2 1/2&quot;/3&quot;</td>
<td>350 USGPM</td>
<td>80 m³/h</td>
</tr>
</tbody>
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ITEX 2 4 8 7 16 26 11 18
Easy-to-use systems:

- Side-removable plates
- "Plug-in" gaskets
- Stainless steel guide bar for easy and accurate alignment of plates
- One-person tightening
- Many connection possibilities

Choice of materials:

<table>
<thead>
<tr>
<th>Plate materials</th>
<th>Gasket materials</th>
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<tbody>
<tr>
<td>304 s/steel</td>
<td>NBR</td>
</tr>
<tr>
<td>316L s/steel</td>
<td>EPDM</td>
</tr>
<tr>
<td>254 SMO</td>
<td>EPDM Prx</td>
</tr>
<tr>
<td>Titanium (Gr.1)</td>
<td>FKM VITON®</td>
</tr>
</tbody>
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The materials, patterns and thicknesses of plates are selected to ensure safety and longevity.

The patented "Plug-in" gasket design permits easy installation and removal of plate gasket for enhanced maintenance functionality!

Sideways plate extraction:
Frame disassembling no longer required to remove a plate!

Tie rods side extraction:
Easy and fast!

4"
1000 USGPM
240 m³/h

6"
1700 USGPM
380 m³/h

8"
3500 USGPM
800 m³/h
Beyond exchange

Quality / reliability
Whatever your application is, you can rely on Thermofin as a quality partner able to deliver equipment certified by ASME or DERK NORK VERITAS and one that will present you with a number of proposals for your consideration.

Scalability
AUREPLAK model developed specially to be inserted between a heat pump and an underground well.

Services
With our enormous stock of plates and gaskets, you can be sure that you will benefit from among the fastest delivery times in the industry.
Heat exchange is Thermofin’s business

Our experts and networks place Thermofin’s know how, technologies and products within reach of customers throughout the world.

Thermofin : naturally at the heart of heat exchange.

Our speciality: heat transfer

Our business: energy optimisation

Our competitive edge: innovation

Our strength: our customers
The heat exchange specialist

Since 1993, Thermofin has designed, manufactured and marketed a large range of high quality exchangers for industrial processes. Over the years, Thermofin has become one of North America’s leading name in thermal exchange. Through its expertise and its dedicated workforce, Thermofin will always offer you the right exchanger: the one for sustainable exchanges ...

EXEL: Brazed plate heat exchangers

POWERFIN: Extruded aluminum finned tubes

ELECTRA: Industrial heat exchanger

CALEOS: Shell & Tube heat exchanger

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