Accessen in short


3 manufacturing bases

Accessen’s three manufacturing bases are located in Shanghai and Jangsu, China. Established in Shanghai in the year 2002. With over 200,000 square meters in total, producing up to 30,000 heat exchangers and 5000 heat exchanger units annually.

Flexible on demands

The core of Accessen’s operation is based on a key feature: customized products. Complying with ASME, PED-CE, API, JIS, IEC, DNV, ABS, BV, CCS, GL and other international specifications and standards.

2 business divisions

Accessen’s business is divided into two divisions covering HVAC and industrial. Our customers are found in various industries such as commercial building, district heating, refrigeration, oil & gas, chemical, waste water treatment, marine, power and food to mention a few. In addition, a dedicated service organization which supports our customers to ensure they can continue to rely upon the excellent performance of their Accessen equipment.

600 employees worldwide

Accessen currently has about 600 employees worldwide.
Comparison between the three types of plate heat exchanger

<table>
<thead>
<tr>
<th>Gasket Plate Heat Exchanger</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plate Material</strong></td>
</tr>
<tr>
<td>Stainless steel</td>
</tr>
<tr>
<td>Titanium</td>
</tr>
<tr>
<td>Alloy 754 SD</td>
</tr>
<tr>
<td>Ni</td>
</tr>
<tr>
<td>Alloy C70</td>
</tr>
</tbody>
</table>

**Minimum** | **Maximum**
--- | ---
Heat Transfer Area (M²) | 3 | 2500 M²
Design Temperature (°C) | -50 | 200
Design Pressure (bar) | Vacuum | 23
Design Code | DIN 969 | ASME JIS

**Gasket Material**

<table>
<thead>
<tr>
<th>NBR</th>
<th>Temperature</th>
<th>Media</th>
</tr>
</thead>
<tbody>
<tr>
<td>-125</td>
<td>-12</td>
<td>-120</td>
</tr>
<tr>
<td>EPM</td>
<td>-15</td>
<td>+140</td>
</tr>
<tr>
<td>EPDM</td>
<td>-25</td>
<td>+250</td>
</tr>
<tr>
<td>HERF</td>
<td>-25</td>
<td>+180</td>
</tr>
<tr>
<td>Viton</td>
<td>-5</td>
<td>+180</td>
</tr>
</tbody>
</table>

**Frame:**

- Carbon steel
- Coated stainless steel
- Stainless steel

**Nozzles:**

- Carbon steel
- Metal lined stainless steel, Titanium
- Rubberized metal, EPDM
- High-strength stainless steel

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**All-welded Plate and Frame Heat Exchanger AWD Series**

<table>
<thead>
<tr>
<th>Plate Material</th>
<th><strong>Minimum</strong></th>
<th><strong>Maximum</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel, Alloy 304</td>
<td>3</td>
<td>500</td>
</tr>
<tr>
<td>Titanium</td>
<td>Design Temperature (°C)</td>
<td>-50</td>
</tr>
<tr>
<td>Ni</td>
<td>Design Pressure (bar)</td>
<td>20</td>
</tr>
</tbody>
</table>
| Alloy C70 | Design Code | DIN 969 | ASME JIS

**Application**

All welded Plate and Shell Heat Exchanger AWPS Series

<table>
<thead>
<tr>
<th>Plate Material</th>
<th>Modia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel / Alloy 304</td>
<td>DIN/EN, ASME, JIS</td>
</tr>
<tr>
<td>Titanium</td>
<td>ISO, JIS</td>
</tr>
<tr>
<td>Alloy C276</td>
<td>ASME, JIS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Transfer Area (㎡)</td>
<td>3</td>
</tr>
<tr>
<td>Design Temperature (°C)</td>
<td>150</td>
</tr>
<tr>
<td>Design Pressure (bar)</td>
<td>Vacuum</td>
</tr>
<tr>
<td>Design Code</td>
<td>DIN/EN/ASME/JIS</td>
</tr>
</tbody>
</table>

Application

- Machinery manufacture
- Marine equipment
- Desalination
- Electrical energy
- Petrochemicals, Food & Beverage
- Pharmaceuticals, Paper industry
- Refrigeration, Industrial, organic chemical

AMOBILE Noveable Container Exchange Heating Station

**Application**

- Central heating, air conditioner, domestic water heating, refrigeration, remote control of system and heating and other customized cooling systems.

**Main specifications**

- Maximum output: 2,500 kJ/h
- Maximum design pressure: 250 bar
- Maximum temperature resistance: 350°C
- Plate materials: AISI 304, 316...

**Characteristics**

- Unique system design
- Compact structure design which minimizes area and construction cost during installation
- Smart design, unmanned computer interface and remote monitoring
- Field assembly of components and parts
- Professional service team, efficient, responsive and lifet ime warranty
- Operating personnel will be trained professionally

<table>
<thead>
<tr>
<th>Unit code</th>
<th>Heat exchange area (㎡)</th>
<th>Maximum heating output (kW)</th>
<th>Maximum base of secondary flow (m³/min)</th>
<th>Unit dimensions (mm)</th>
<th>Unit weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH1025</td>
<td>2.5</td>
<td>15</td>
<td>30</td>
<td>2100</td>
<td>3300</td>
</tr>
<tr>
<td>SH2500</td>
<td>2.0</td>
<td>11</td>
<td>20</td>
<td>2100</td>
<td>3300</td>
</tr>
<tr>
<td>SH2500</td>
<td>2.5</td>
<td>20</td>
<td>30</td>
<td>2100</td>
<td>3300</td>
</tr>
<tr>
<td>SH4000</td>
<td>3.5</td>
<td>30</td>
<td>40</td>
<td>2100</td>
<td>3300</td>
</tr>
<tr>
<td>SH6000</td>
<td>5.0</td>
<td>40</td>
<td>60</td>
<td>2100</td>
<td>3300</td>
</tr>
</tbody>
</table>

Customizable Plate Heat Exchanger Unit GU Series
ACCESSING’s 3rd factory was launched in October 2018. Equipped with state-of-the-art facilities and having the biggest Plate heat exchanger unit assembling line in China, providing “on-demand” heat exchange solutions for HVAC and industrial applications.

The future of advanced manufacturing

30000

5000

The strength to achieve the future.

Phase II’s total factory area exceeds 30,000 m², mainly produces heat exchanger units and system integration products. It has electrophoresis coating, automatic welding, and other modern assembly lines. Mainly produces over 30,000 units of heat exchangers and 5,000 sets of Heat Exchanger Units per year.
We are able to maintain production capacity even when our pressure press production line is halted. A ccess to a wide range of different press machines allows us to produce a wide variety of options for a more flexible usage, improving the accuracy and efficiency of the plate.

Pressure Press load of 20,000 tons

Process determines quality, a new way of smart manufacturing is coming.

How to produce a set of heat exchange equipment with high quality? It needs not only good ideas, skilled workers and advanced processing equipment. Our modern production system can guarantee every set of equipment has a reliable performance through ever-improving production process and manufacturing standard, having a strict quality control system, continuously put through rigorous performance tests.

Breaking into first class manufacturing

The whole unit's full performance tests is not limited to only the water pressure test, but also includes the flow, resistance, pump operation, control usage, electrical operation, vibration, noise produced and so on. The machine appearance, including internal wiring, are able to put into use quickly, saving precious time.
The Leading Automated Electrophoresis Coating of heat exchange equipment

From spray coating to high-temperature spray molding and then to electrophoresis coating, ACCESSEN is continuously improving in every way possible. Electrophoresis coating provides a uniformed finish on the inside of the pipelines and welding seams which in turn greatly improves the corrosion resistance, performance, and hydraulics characteristics.
A Safe Guardian

Overlooking the world from China, with buildings higher than the clouds like a colorful skyline.

The view of the world is ever changing, as well as the demanding requirements of temperature difference, pressure, and cost. Accesssen has always been consistent with China at the highest levels, with a 0.2°C temperature difference, 11kg pressure limit and 36-month service life, ensuring a safe and secure "life in the sky".

Accesssen Skyscrapers Performance

**610m**
Guangzhou TV Tower

**636m**
Wuhan Greenland Center

**368m**
Foshan Green Square

**325m**
Guangzhou Nanning Financial Plaza

**307m**
Nanning Wanda Plaza

**300m**
Changsha Huachuang International Plaza

**303m**
Wuhan Muye World Financial Center

**300m**
Zhengzhou Green Square

**328m**
Chongqing, Tishui International Center

**310.95m**
Shenyang Muye Building
**CapitaLand**

*Raffles City Changfu*

CapitaLand is one of Asia’s largest real estate companies. Headquartered and listed in Singapore, the multi-local company’s core businesses are in real estate, property management, hospitality and real estate financial services. Focusing on higher growth cities in Asia Pacific and Europe.

**Customer Feedback**

- Accessen provided project with 32 MH series plate heat exchangers which are capable of heat exchange up to 1°C, heat load of 5003kW. 60 oil heat exchanger units, with heat load of 2400kW.

**Guangzhou Tianhe-2 Supercomputing Centre**

Data centres have extremely stringent temperature control requirements on the stability and reliability of the air-conditioning and cooling equipments. Located in Guangzhou University, the Guangzhou Supercomputing Centre is one of the most crucial and essential parts of the university’s district cooling system.

- The PHE is in accordance to ASME standard and is still performing very well after two years of operation.

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**Samsung Group**

Samsung Group is a South Korean multinational conglomerate headquartered in Samsung Town, Seoul. It comprises of numerous affiliated businesses, with most of them united under the Samsung brand and they are the largest South Korean chaebol (business conglomerate). Accessen is one of the heat exchanger suppliers for Samsung. Supplied heat exchanger for Samsung Semiconductor (Stage one and two): Waste water treatment, Boiler waste heat recovery, Process cooling water system; Samsung Electro-Mechanics (Process cooling water system); Samsung SDI MIN (3F) Power Battery Co Ltd (Process cooling water system) and Samsung SDI China Co Ltd (Process cooling water system).

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Shanghai basic Data center