About us

Accessen in short

3 manufacturing bases
Accessen’s three manufacturing bases are located in Shanghai and Jiangsu China. Established in Shanghai in the year 2002. With over 100,000 square meters in total, producing up to 30000 heat exchangers and 5000 heat exchanger packages annually. We are a genuine original PHE manufacturer with all components are produced in our own factory and complete end products.

Flexible on demands
The core of Accessen’s operation is based on key feature: customized products. Complying with ASME, PED-CE, API, JIS, IEC, DNV, ABS, BV, CCS, GB 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, textile, waste water treatment, marine, power and food to mention a few. In addition, a dedicated service organization which supports our customers to ensure that 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></th>
<th>AU</th>
<th>AWPS</th>
<th>AX</th>
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<tbody>
<tr>
<td>Plate Material</td>
<td>Stainless steel, Alloy 316L, Alloy 304</td>
<td>Titanium</td>
<td>Stainless steel, Alloy 316L, Alloy 304</td>
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<td>Media</td>
<td>Pure Water, River Water, Edible Oil, Mineral Oil</td>
<td>Sea Water, Salt Water, Salt Material</td>
<td>Thin Stainless Steel, Thin Stainless, Burgundy, Pungent</td>
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<tr>
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<td>-50°C</td>
<td>-50°C</td>
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<tr>
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<td>Design Code</td>
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</table>

### Main Technical Parameters of ACESSEN Plate Heat Exchanger

<table>
<thead>
<tr>
<th>Model Specifications</th>
<th>Interface Pressure (MPa)</th>
<th>Minimum Throughput (m³/h)</th>
<th>Maximum Specific Pressure (MPa)</th>
<th>Maximum Heat Transfer Area (m²)</th>
<th>Maximum Height (mm)</th>
<th>Maximum Length (mm)</th>
<th>Maximum Weight (kg)</th>
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<tr>
<td>A30</td>
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<tr>
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<td>3.5</td>
<td>444</td>
<td>444</td>
<td>525</td>
</tr>
</tbody>
</table>

### Application


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**1. Gasket Plate Heat Exchanger**

**Plate Material**
- Stainless steel, Alloy 316L, Alloy 304
- Titanium
- Alloy 254 SMO

**Media**
- Pure Water, River Water, Edible Oil, Mineral Oil
- Sea Water, Salt Water, Salt Material
- Thin Stainless Steel, Thin Stainless, Burgundy, Pungent

**Minimum**
- -50°C

**Maximum**
- 200°C

**Design Temperature**
- -50°C

**Design Pressure**
- Vacuum

**Design Code**
- DIN, GB, GOST, ASME, JIS

**2. All-welded Plate And Frame Heat Exchanger AWD Series**

**Plate Material**
- Stainless steel, 316L, 304

**Media**
- Pure Water, River Water, Edible Oil, Mineral Oil
- Sea Water, Salt Water, Salt Material

**Minimum**
- 3

**Maximum**
- 500

**Heating Transfer Area (m²)**
- Design Temperature (°C) -50

**Design Pressure (Bar)**
- Vacuum

**Design Code**
- DIN, GB, GOST, ASME, JIS

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**Application**


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**Diagram**

[Diagram of plate heat exchanger]

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03 04
3 All-welded Plate And Shell Heat Exchanger AWPS Series

<table>
<thead>
<tr>
<th>Plate Material</th>
<th>Media</th>
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<tbody>
<tr>
<td>Stainless steel Alloy X80L/Alloy 304</td>
<td>Pure Water, River Water, LDI-4, Mild Steel</td>
</tr>
<tr>
<td>Titanium</td>
<td>Sea Water, Salt Water, Salt Resistant</td>
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<tr>
<td>Ni</td>
<td>High Concentration Corrosion Resistant</td>
</tr>
<tr>
<td>Alloy C27E</td>
<td>Concentrated Sulfuric Acid, Hydrochloric Acid, Phosphoric Acid</td>
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</table>

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
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<tr>
<td>Heat Transfer Area (M2)</td>
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<tr>
<td>Design Temperature (°C)</td>
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<tr>
<td>Design Pressure (Bar)</td>
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<tr>
<td>Design Code</td>
<td>DIN/ GB/ GOST/ ASME/ JIS</td>
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</table>

**Application**


4 AMOBILE Movable Container Exchange Heating Station

**Application**

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

**Main specifications**

- Maximum output: 2.500m³/h
- Maximum design pressure: 25bar
- Maximum temperature resistance: 150°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.
Reliable assembly of components and parts.
Professional service team, efficient response and lifetime warranty.
Operating personnel will be trained professionally.

<table>
<thead>
<tr>
<th>Unit model</th>
<th>Heat exchange volume (liter/hit)</th>
<th>Maximum heating capacity (°C)</th>
<th>Made up flow of secondary side (m³/h)</th>
<th>Unit dimension (mm)</th>
<th>Unit weight (kg)</th>
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<td>259</td>
<td>104</td>
<td>2200x1600x1600</td>
<td>2200</td>
</tr>
</tbody>
</table>

*only for reference*
The future of advanced manufacturing

ACCESSSEN’s 3rd factory was launched in October 2014. Equipped with state-of-the-art facilities and having the biggest Plate heat exchanger packages assembling line in China, providing “on demand” heat exchange solutions for HVAC and industrial applications.

30000
5000

The strength to achieve the future.

Phase III of Taicang factory total area exceeds 50,000㎡ (mainly produces units and system integration products). It has electrophoresis coating, automatic welding and other modern assembly lines. Maximum capacity: producing over 30000 sets of Heat Exchanger and 5000 sets of Heat Exchange Packages per year.
We are able to maintain production capacity even when our pressure press production line is halved. Accessen has a wide range of different press machines. We are able 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 worker and advanced processing equipments. 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, ACCSSENF 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 also greatly improves the corrosion resistance, performance, and hydraulics characteristics.

Our capacity to handle 1 single component of 1.5 ton net weight and length up to 2 meters.

Total testing platform, not limited to hydrostatic test, flow resistance, water pump, control, electrical work, such as vibration and noise. Machine appearances including internal wiring, delivery can be put to use quickly, saving you valuable time.
A Safe Guardian

Overlooking the world from China. With buildings higher than the clouds like a colorful fairytale, the view of the world is ever changing, as well as the demanding requirements of temperature difference, pressure and cost. Accessen has always been consistent with China at the highest level, with 0.5°C temperature difference, 35kg pressure limit and 30-maintenance free years, ensuring a safe and secure "life in the sky".

Accessen Skyscrapers Performance

- **636m**
  - Wuhan Greenland Center
  - China’s tallest building
  - Second in the world
  - Building completion by 2019

- **610m**
  - Guangzhou Greenland Center
  - TV Tower

- **368m**
  - Foshan Green Square

- **328m**
  - Chongqing Tianhe International Center

- **310.95m**
  - Shenyang Maye Building

- **303m**
  - Wuhan Maye World Financial Center

- **300m**
  - Zhongzhou Green Square

- **300m**
  - Changsha Huachuang International Plaza

- **325m**
  - Guangxi Nanning Green Square

- **307m**
  - Kunming Kishan Wanda Plaza

- **300m**
  - Changsha Huachuang International Plaza
CapitalLand
Raffles City Chengdu
CapitalLand 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, hospitality and real estate financial services. Focusing in higher growth cities in Asia Pacific and Europe.

Chengdu, Raffles city started based earthwork construction in January 2008, Expected to be completed in year 2013. The office building, and the shopping center were opened in September 2012.
Customer Feedback : Accessen is a high end heat exchanger manufacturer. The PHE is in accordance to ASME standard and is still performing very well after two years of operation.

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 SDA-ARN (X/An) Power Battery Co Ltd (Process cooling water system) and Samsung SDI China Co Ltd (Process cooling water system).

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.

Accessen provided this project with 12 AN series plate heat exchangers which are capable of heat exchange up to 1°C, heat load of 5000KW, 2 GU heat exchanger packages, with heat load of 2400KW.

Shanghai bank Data center