- Respect
- Integrity
- Cooperation
- Positivity
- Vision

Designs and Specifications are subject to change without notice for further improvement.

2023 06 EN Rv2

Accessen | On Solution For Heat Exchanger

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Distributors

Accessen

To be World's Leading On Solution For Heat Exchanger

About Accessen

Shanghai

Shanghai Accessen Co., Ltd. is a heat exchange solution provider which specializing in R&D, manufacturing, sales and service of heat exchange equipment. Accessen own 27 subsidiaries in China which can supply pre/after sales service directly. Our Production headquarter located in Huangdu Industrial Park, Shanghai, China, the Xiechun Road Workshop. Total production area over 100,000 m2 plus Taicang Workshop. Main business of Accessen is heating, refrigeration and industry divided by application, such as HVAC, refrigeration, energy and electricity, iron and steel metallurgy, petrochemicals, food and medicine, new energy electronics, marine engineering and environmental protection. Accessen provides on-demand heat exchange solutions and fast, efficient customer service to help customers achieve efficient cold & heat exchange and clean energy utilization, reducing energy waste and carbon dioxide emissions.

Accessen complies with the globally unified AS standard and has a strict and perfect quality assurance system. The company has passed ISO9001, ISO14001, ISO45001 certification. Its products have obtained many certificates such as American ASME and AHRI certification, the highest level safety registration certification A5, national energy-saving certification. Accessen has more than 80 national patents and software copyrights. Participated in the formulation of national/industry standards for many times and possessed a number of core technologies and independent intellectual property rights, which made us a key technology enterprise cultivated locally.

Accessen produces a full range of heat exchange equipment such as plate heat exchangers, plate heat exchange skid, all welded Plate&Shell type heat exchanger, all welded Plate&Frame type heat exchanger, all welded air/air heat exhanger, process water cooling system, waste heat recovery system,Rubik's Cube Containerized Heat Exchange Station,Prefabricated Integrated Cooling Station according to AS standard under plate heat exchanger and skid integration two core technology. We also provide products that meet international norms and standards such as ASME, CE, AHRI, API, DNV, GL, LR, ABS, BV, NK, KR, CCS, RINA, RS, CCC, GB, etc.

Accessen provides the world wide leading on-demand heat transfer solutions, high-quality heat transfer equipment, fast and efficient services for you.

Solution

Shanghai Park

Suzhou Park

Milestones

2002
Accessen was founded in 2002. Imported US heat exchanger technology into the workshop.

2003
Established Shanghai Accessen Group Co., Ltd.

2006
DN500 new model the biggest PHE model put into production. Supplied PHE for nuclear power industry.

2007
Construction of Shanghai Xiechun manufacturing base.

2008
New product, all welded type heat exchanger put into production.

2010
Obtained API,ASME, CE,ABS, LR, DNV, GL certificate.

2011
Shanghai Xiechun manufacturing base in operation and the construction of Taicang manufacturing base.

2012
One of the world's biggest heat exchanger manufacturing facility.

2013
Achieved the LEED certification for CapitaLand project.

2015
Production of Amobile, a new heat exchanger skid.

2016-2017
Wuhan Greenland project. Highest building in China.（636m）

2018
American AHRI Certification for Air Conditioning, Heating and Refrigeration

2020
The company was officially renamed as Shanghai Accessen Co., Ltd

2021
Shanghai Energy-saving Product Certification for Plate Heat Exchanger Skid, China Construction Installation Best Service Award, Obtained Five-Star Service Certification, Information Security Management System Certification, Certification of Intellectual Property Management System

2022
Drafting unit of white paper on high-efficiency prefabrication and integration technology of data center refrigeration system, Leader of National Standard of Plate Heat Exchanger, Leader of National Standard of Plate Heat Exchanger Skid, Grade II of Construction Contracting

20000+
Projects

20+ year
Heat Exchanger Experiences

Future advanced manufacturing

40,000 tons pressing production line

The press is the core equipment for the production of heat exchangers. The large-tonnage press can ensure the pressing accuracy and one-time forming and prevent the plates from springing back when pressing the large plates.

Main parameter

Nominal pressure: 40000 tons
Work table size: 4200*1900 mm
Pressing precision: ±5%
Groove depth tolerance: ±0.1 mm

40,000 tons press

Always abundant with capacity and design needs

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.

After the arrival inspection of the coil material, various different sizes of plates are cut out through automated leveling and mold cutting for stamping forming, and laser cutting is required for special requirements

Multiple presses production line

Laser cutting equipment

Decoiler line

Plates integrated cutting line

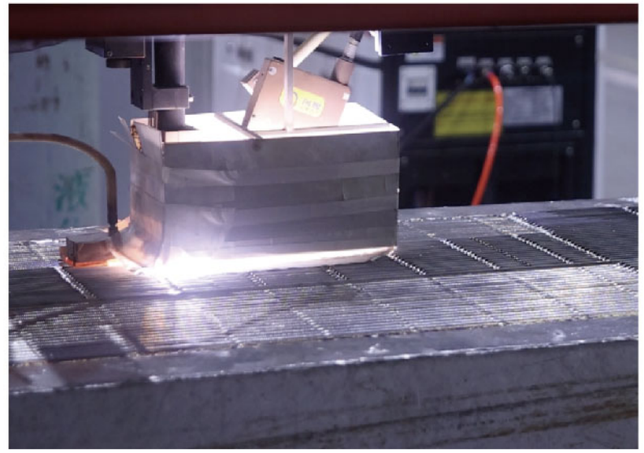
The welding robot acts quickly and sensitively, is capable of uninterrupted work and can meet the market demand of the welded products in large batch quantity and short cycle, so as to ensure timely delivery of the products. The welding seam is welded with automatic infrared tracking and positioning technology, which ensures high weld positioning and low deviation, and after the program setting, the welding gun can automatically finish the welding of the plate core set to ensure the welding precision.

Automatic plate welding (AWPS)

Traditional argon arc welding has high requirements for the skills of the welder, and unsuitable for large-scale industrial manufacturing of heat exchange devices due to unstable production process. Automatic welding and robot technology help Accessen realize the entire automatic production of the core plate set for the welded heat exchanger, having greatly improved the welding quality and reliability of the product, and ensuring good compliance with the process in the high temperature and pressure field.

Automatic plate welding (AWK)

And the automatic devices with the parameter setting can finish the core welding process rapidly, avoiding the welding defects and significantly improving the welding efficiency. Automation has achieved stable provision of high-quality heat exchange equipment for customers

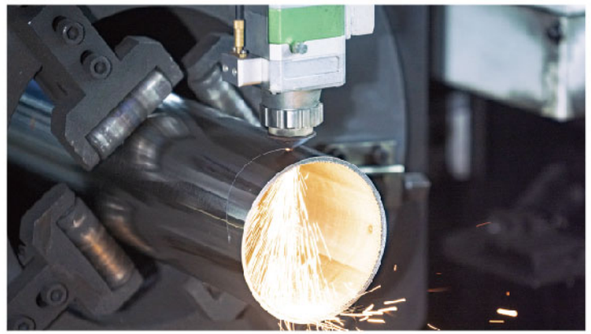


Automatic plate welding (AWD、A-bloc)

Automated assembly production line

The automated "electrophoretic coating" process is different from the traditional "painting" that needs to be adjusted according to the internal temperature and humidity of the equipment, and the excess toxic paint is removed by washing with water. "Electrophoretic coating" will make the paint film cover the inner and outer walls of the pipeline smoothly and evenly, with good coating permeability and enhanced anti-corrosion performance.

Pipe automatic welding



Pipe laser cutting

Light lifting line

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

Electrophoretic coating production line

Quality and testing of product

The performance test of the whole skid/package is not limited to hydraulic test, but also includes flow, resistance, water pump operation, control usage, electrical operation, vibration, noise generation and so on. Machine appearance includes internal wiring and can be put into service quickly to save valuable time.

Testing platform

Electric control cabinet production line

Amobile Workshop

On Solution For Heat Exchanger

E-Cloud Smart Energy System

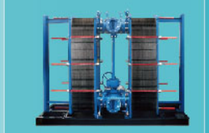
APS-V Zhurong (God of Fire) Series Standardized Heating Unit

AIS Indoor Prefabricated Cooling Station

APS Standard series Plate Heat Exchanger Unit

ABJ/GU (I)Process Application Heat Exchanger Unit

AIS Outdoor Assembled Box-type Integrated Cooling Station



DOCU Duplex Oil Cooling Unit

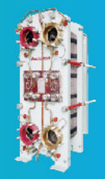
ABJ/GU Customized Heat Exchanger Unit

Containerized Heat Exchanger Station AMOBILE Series

CDU Liquid Cooling Heat Exchanger Unit

ADML Terminal Entry Adjustment Device

AU,AN,AS,AP,AC Series Gaskets Type PHE



AM Series Marine&Ocean Engineering PHE

A-BLOC All Welded Detachable PHE

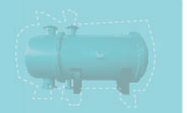
AWD Series All Welded Plate&Frame Type HE

AHWV Displacement Type Heat Exchanger

AQ/AA Series Plate Heat Exchanger

ASM Series SS Multi-section PHE

AWPS Series All Welded Plate&Shell Type HE



Shell&Tube Type Heat Exchanger

AWK All Welded Type Gas/Gas HE

bar
100
60
40
35
25
16
10

SOLUTION MODULAR SYSTEM SKID PHE -50 0 200 350 500 1000 ℃

Gasket Plate Heat Exchanger (PHE)

AHRI Certification

High Heat Transfer Efficiency

Easy Maintenance

Safe And Reliable

AQ/AA series gasket type plate heat exchangers are widely used in HVAC applications. This series products had passed the AHRI liquid heat exchanger (LLHE) certification of the American Air Conditioning, Heating and Refrigeration Association. And the thermal performance of this series products had been approved by it. AHRI certification is the only third-party performance certification institution on plate heat exchangers in the world. The heat exchanger developed by Accessen according to refrigeration application can meet the demand of high-efficiency heat transfer perfectly and cover various working condition and processing capacity. Rich plate design. We have plates with different angles, different groove depths, and heat exchanger models with different aspect ratios under the same caliber. So we can meet the requirements of users easily. Undoubtedly, this means Accessen has more choices on product under the same working conditions, and can obtain higher heat transfer coefficient, pressure drop can be used with best, and reasonable flow rate design can reduce equipment downtime.

Product Features

- Third party certification AHRI
- Optimized gasket for longer service life
- Energy-saving certification -Higher efficiency
- Various plate combination
- Reliable and stable performance
- More accessories to choose
- Optimized diversion area for higher efficiency
- Non-adhesive snap-in gasket
- The self-locking device at the four corners of the plate can ensure the fixation

Scope of Application

HVAC, Electrical Energy, Steel Industry, Circulation water cooling, Food & Beverage, Pharmaceuticals, Solar Industry, Electronics Industry, Chemical, Textile, Paper industry, Machinery manufacture, Auto industry, Marine.

Main specifications

Maximum processing capacity	5000m³/h
Maximum design pressure	25bar
Maximum temperature	200℃
Plate material	AISI 304, 316, 316L, TI, SMO254...

Advantages of Gasket Plate Heat Exchanger

Advanced Structural Design

Compared with other heat exchangers, the plate heat exchanger has a more compact structure. The heat exchange can be carried out at the temperature difference of 1℃, the design pressure is as high as 40Bar, and the maximum throughput can reach 4500m³/h. Improved design of sheet diversion can effectively prevent scaling and increase heat transfer coefficient up to 8000w/m2.k.

Variable Selection Of Working Conditions

The wide range of plate type, various angles, various grooves, and different combinations form an ideal heat exchanger which is most suitable for working conditions. Plate positioning system and single side flow design as well as special clamping size identification for easy installation, operation and maintenance. Heat exchangers with different materials, such as stainless steel, titanium or other special alloys, to meet different industrial needs. In the form of heat exchange, numerous combinations can be achieved by changing the flow mode or increasing the number of flow channels. The multi flow mode from two single fluid countercurrent to more than three or more fluids can be achieved, providing designers with more and more reasonable choices to meet different process requirements.

Visible Economic Benefits

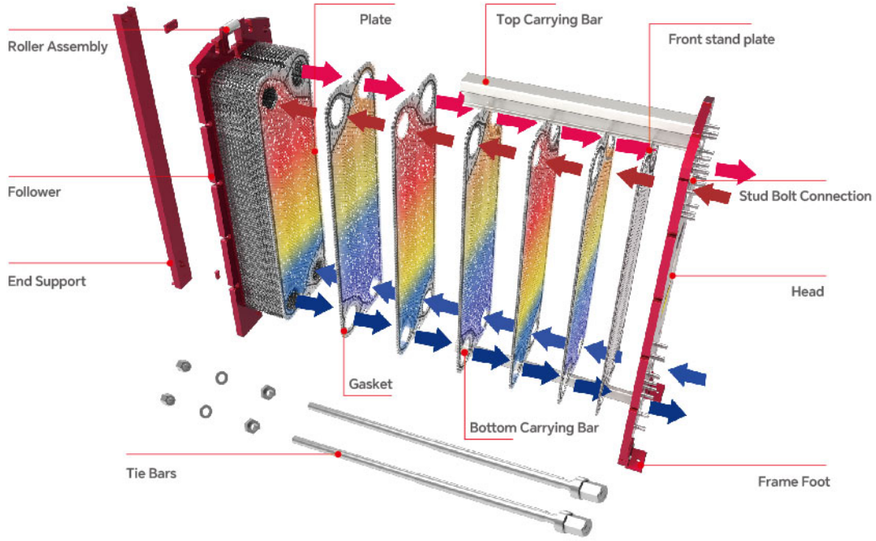
The plate is evenly formed, and a high precision mold is adopted to reduce the physical stress and improve the balance of the plate metal, thus greatly prolonging the service life of the plate. The plates is easy to access and convenient for manual cleaning. On many occasions, backwash can be used for cleaning. Routine cleaning does not take much time and requires no specialized trainers. The whole series adopts the form of paste free to reduce operation and maintenance costs and facilitate maintenance. The heat transfer and pressure can be adjusted, and the best heat transfer coefficient can be obtained by adjusting the heat transfer coefficient and pressure drop through the combination of plate, thereby reducing the investment in equipment. Because of its high heat transfer coefficient and easy installation and maintenance, the initial investment and operation and maintenance costs are greatly reduced.

Standards-certification

We have a complete set of qualifications and various international norms of certifications. We not only produce the plate heat exchanger, PHE skid, all Welded Plate &Shell Type HE, all Welded Plate&Frame Type HE, evaporator and condenser, process water cooling system, heat recovery system and a full range of heat exchange equipment which in accordance with the uniform AS standard, but also provide products comply with the international norms and standards such as ASME, CE, API, JIS, IEC, DNV, GL, ABS, BV, CCS, GB, etc. The following list is part of our certificate references. For more please contact our local sales.

Excellent Design And Performance

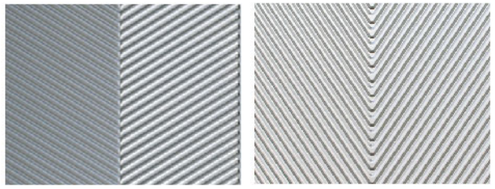
Explosion Diagram



Scan to view
product principles

Plate Angle

Through the change of the plate corrugation angle, the heat transfer performance of the metal plate is different to better meet the requirements of different working conditions. Usually called H plate and L plate.



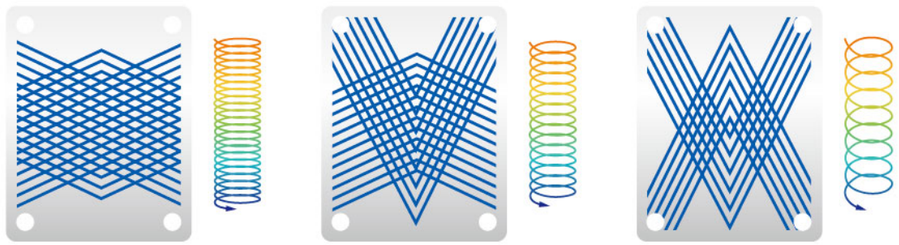
H Plate L Plate

Plate Angle Comparison

When the fluid passes through the plate at different angles, the temperature and pressure drop will change greatly. The H plate can achieve higher heat transfer coefficient, but the resistance through the plate is also higher. Resistance of L plate is lower, but the heat transfer coefficient is not as good as H plate, It's suitable for application which is sen setice to pressure drop.

Plate Patterns Combination

In order to balance the heat transfer coefficient and required pressure drop, our calculation software will automatically match and calculate according to the customer's required temperature and pressure drop, and achieve the best heat transfer coefficient through and plates mixing. The pressure drop is optimized to meet your needs with a smaller heat transfer area.



H + H
H Combination

H + L
M Combination

L + L
L Combination

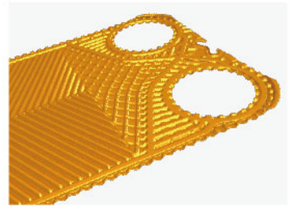
The plate is the core part of the heat exchanger and is formed by pressing a corrugated metal plate.

Plate Thickness

0.4, 0.5, 0.6, 0.7, 0.8mm

Plate Material

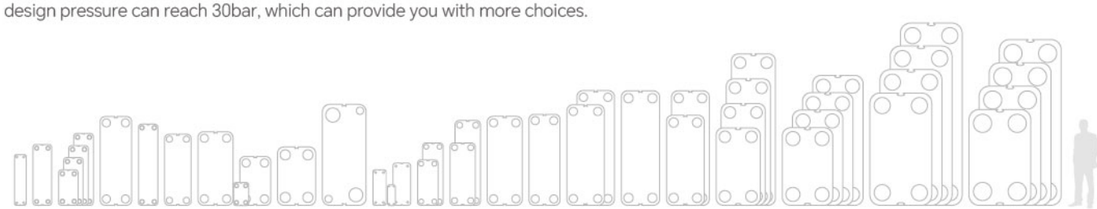
AISI304
316/316L
SMO254
Titanium
Hastelloy
Nickel



For more please contact us

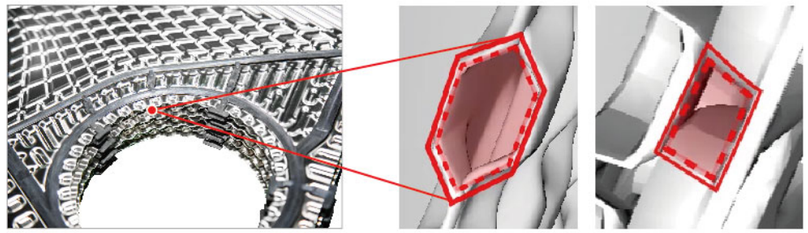
Wide Range of Plate Types

Accessen has a wide range of plate for plate heat exchangers from 25-500 caliber. Based on different application conditions, AU, AN, AS, AP, AQ, AF, etc. The plates has been developed for a total of more than 60 models, the largest The area of the plate is 3.5m² and the design pressure can reach 30bar, which can provide you with more choices.



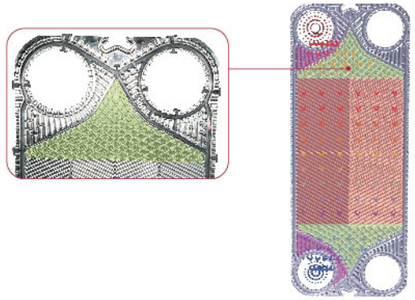
Connection Design

The corner plate design of the patented plate not only has greater flow capacity, but also has less resistance in the same caliber and reduces the internal resistance of the device. At the same time, it also ensures a better flow capacity. In the case of more impurities, it also has a good flow capacity, to avoid plugging of corner holes caused by the accumulation of impurities, affecting the performance and safety of the heat exchanger.



Design of Flow Channel

From the design of the corner hole of the plate, the optimized design of the diversion zone, and the equalization of the flow of the plate, the optimal distribution of water flow and heat transfer effect have been achieved, and the distribution of water flow in the unilateral flow design has also been solved. The heat exchange medium is distributed on the plate very evenly to achieve the best heat transfer effect, and the accumulation of dirt impurities caused by uneven distribution is also prevented, so that the corrosion and efficiency of the plate are reduced.

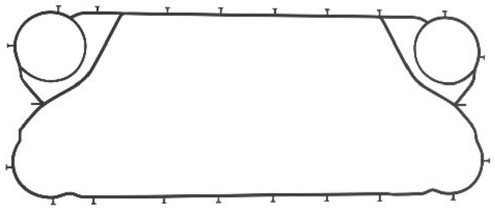


Gasket

The gasket is used to seal the fluid medium to form a fixed channel, to ensure that the medium does not mix, composed of rubber material to enhance the resistance to stress and chatter, usually the service life is around 5 to 8 years.

Gasket Material

NBR
HNBR
EPDM
HEPDM
VITON



Glueless (snap-on, embedded)

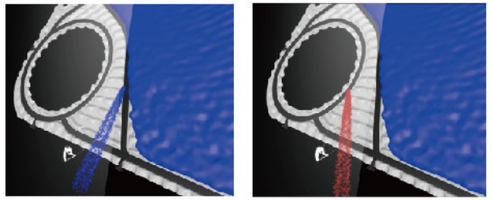
Full range products of Accessen are made of glueless type. According to the specifications of the model, the use of snap-fitting or embedment, the use of jacks or embedded and linked to the physical characteristics of the strip itself will be combined with the gasket and the plate. This kind of gasket is very easy for the maintenance of the later period and will save a large amount of maintenance costs and spare parts demand, reducing operating costs. Imported raw rubber material ensures product performance and service life.

Clip on

Clip in

Safety Observation Hole

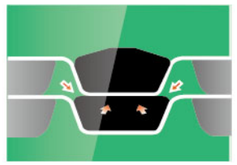
The safety observation hole of the gasket can avoid the mixing of the two media effectively. No matter leakage occurs on any side of the gasket, it can be found and maintained through the safety observation hole in time, avoiding the mixing of the medium caused by the failure of the gasket.



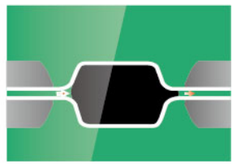
Safety observation hole

Gasket Structure

The improved full-groove seal can compensates the stress of the gasket under high pressure long term usage effectively, Meanwhile, the roof-type structure can maintain the sealing effect and can be reused compare with the traditional half-groove type. In the form of a face seal, the improved full-groove gasket design provides better sealing and longer life. After disassembly and use of many times, it can still maintain a good sealing effect.



Full groove improved seal

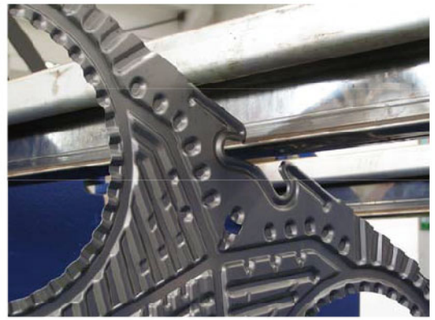


Half-groove seal

Frame

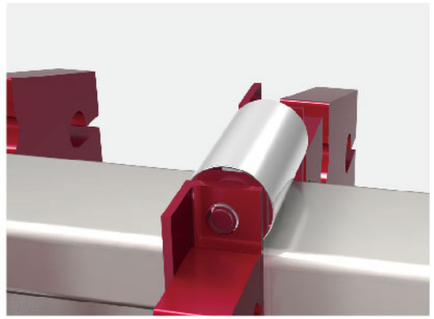
Plate Positioning System

The heat exchanger positions the plate between the front head and the follower plate through the upper and lower guide bars. The four corners of the plate self-locking position make the plate automatically classified as pressing, so that the operator can complete the heat exchanger without professional training. The disassembly and maintenance are more convenient for the use of the customer's later equipment.



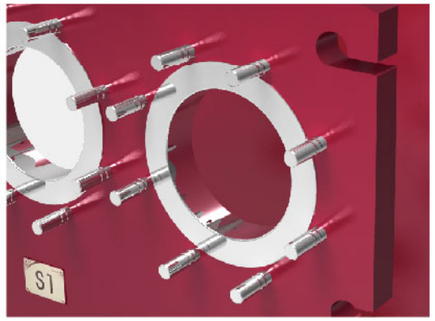
Rolling Bearing Design

The rolling bearing design of the frame facilitates future maintenance. The operator can easily tighten or loosen the frame through the bearing, which reduces the labor intensity of the operator.



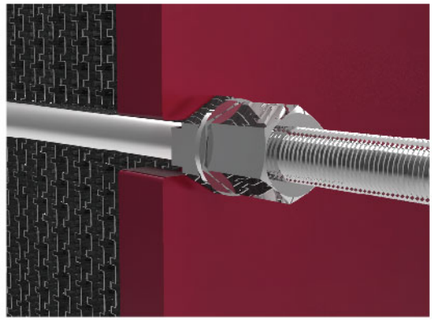
Stainless Steel Liner

Accessen's standard stainless steel liner can meet the demand of stainless steel wetted parts or keep the same material with the plates. This will prevent the issue that rubber liner corroding the head frame due to rubber aging and medium contact. It's quite important when there is higher demand on water quality or medium purity such as refrigeration application. Frame plate corrosion and water quality issues affect the whole system. And compare with rubber liner, they have a longer service life and do not need to be replaced frequently ensure the safety and reliability of the system.

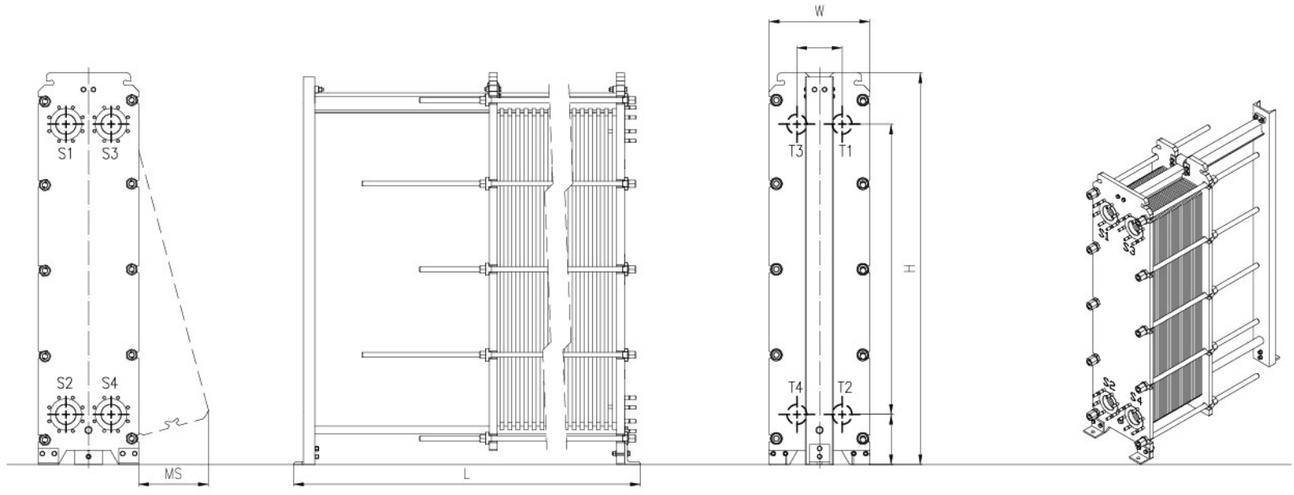


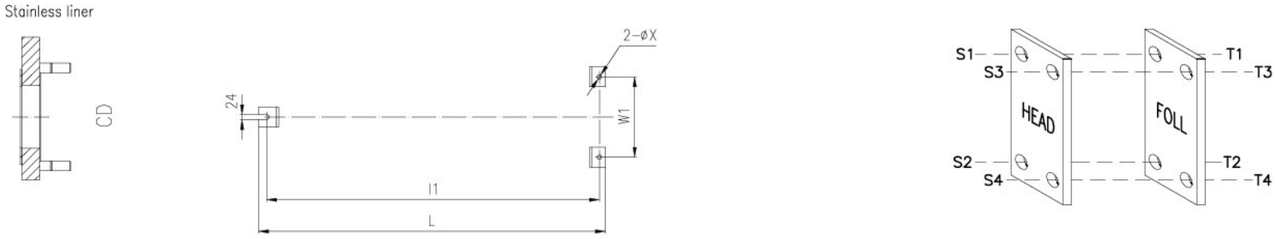
Clamp Bolt And Tools

The bolts and nuts of the frame plate are treated with anti-corrosion surface treatment, and the anti-corrosion metal sleeve can protect the bolts from enviroments. Corrosion effectively the fastening bearing with the self-locking device can tighten the heat exchanger easily, The assembly and disassembly of the heat exchanger can be completed without the coordination of many people. At the same time, we can provide professional tightening tools according to customer requirements to facilitate faster maintenance of equipment.



External Diagram of Plate Heat Exchanger





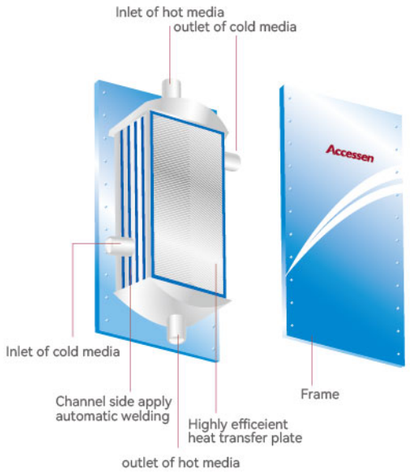
Main Technical Parameter of Plate Heat Exchanger

Model	Nozzle Diameter mm	Maximum flow m^3/h	maximum design pressure (Mpa)	Maximum test pressure (Mpa)	Maximum heat transfer area (m^2)	Max Length mm	Width mm	Height mm	Maintenance Space MS (mm)
AU3	DN25	15	2	2.6	5	765	530	225	300
AU5	DN50	40	2	2.6	30	2008	800	350	300
AU8	DN50	40	2.5	3.25	30	6800	1140	300	500
AU10L2	DN100	170	2.5	3.25	300	5025	1515	510	500
AU15L1	DN150	360	2.5	3.25	300	5651	1570	620	500
AU15L2	DN150	360	2.5	3.25	400	4451	1994	620	500
AU20	DN200	650	2.5	3.25	600	4666	2177	820	700
AU25L1	DN250	950	2.5	3.25	800	5882	2290	900	700
AN5	DN50	40	2.5	3.25	35	1808	800	350	800
AN10M	DN100	170	2.5	3.25	550	6226	1950	500	500
AN15L2	DN150	360	2.5	3.25	500	4661	1994	620	500
AN20	DN200	650	2.5	3.25	1000	6262	2210	765	200
AN25L3	DN250	950	2.5	3.25	1500	7097	2754	900	700
AC95	DN200	650	2.5	3.25	1000	7072	2164	765	700
AP5	DN50	40	2.5	3.25	31	1200	1140	300	300
AS6	DN65	70	1.6	2.08	35	2365	705	415	300
AS20	DN200	650	1.6	2.08	80	2666	1320	750	700
AQ4	DN100	170	2.5	3.25	550	2626	1950	500	500
AN30L1	DN300	1500	1.6	2.08	250	3089	2024	1030	700
AN30L4	DN 300	1500	2.5	3.25	2300	7898	3581	1030	700
AN35B	DN350	2000	2.5	3.25	2300	7148	3227	1175	700
AN50L1	DN500	4000	1.6	2.08	1500	11998	2430	1416	1000

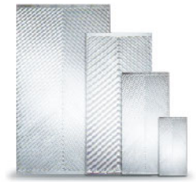
Above are commonly used models, please contact us for more models。

The company reserves the right to change and revise the data without prior notice, and the detailed parameters are subject to the order and drawings.

All Welded Plate & Frame Heat Exchanger AWD Series



AWD



High Temperature
High Pressure

High Heat
Transfer Efficiency

Easy Maintenance

No Spare Parts Required

Fully welded plate & frame plate heat exchanger is a new type heat exchanger, absorbing the advantages of detachable plate heat exchanger, make up for the deficiency of tube type heat exchanger. The design basic of the semi welded heat exchanger is to remove all the gaskets completely, this particular PHE can be used in the middle pressure and temperature range. It retains full countercurrent characteristics of removable heat exchanger, compared to traditional shell and tube type heat exchanger with 3 to 5 times of high efficiency, depending on the application requirements, plate & frame type could be divided into three kinds, non-detachable, one side detachable, double side detachable.

Product features

- Remains heat transfer characteristics of gaskettype heat exchanger.
- With low fouling coefficient.
- Bearing high temperature.
- Bearing high pressure.
- Detachable.
- No gasket aging, low operation cost.

Scope of Application

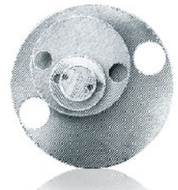
Medium-temperature medium-pressure steam treatment, used for hot water recovery, used in boiler flue gas recovery, chemical industry, petrochemical, pharmaceutical industry, sewage treatment, electricity and machinery industries.

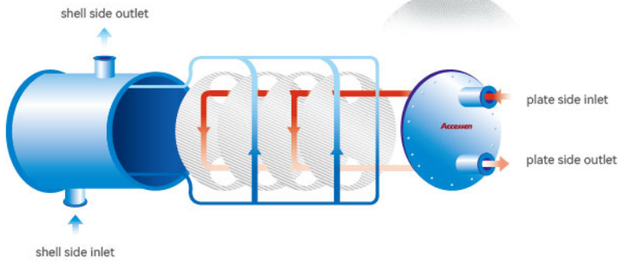
Main specifications

Maximum processing capacity	2500m³/h
Maximum design pressure	35bar
Maximum temperature	350℃
Plate material	AISI304, 316, 316L, 904L, Titanium, Hastelloy, Ni, SMO254...

All Welded Plate & Shell Heat Exchanger AWPS Series

AWPS





High Temperature
High Pressure

High Heat
Transfer Efficiency

Easy Maintenance

Compact Structure

Full welded plate and shell heat exchanger is a new type high efficient equipment which suitable for high temperature, high pressure situations. Full welded plate and shell heat exchanger has the advantages of simple structure, include of shell body, plate group, inlet and outlet pipes and flanges, cover plate and support base, combined with efficient of detachable heat exchanger and high temperature - high pressure specified shell and tube heat exchanger, with higher capability to bear the high temperature and pressure compare to full welded plate and frame heat exchanger, can effectively replace shell and tube heat exchanger.

Product features

- Remains heat transfer characteristics of detachable heat exchanger.
- With low fouling coefficient.
- Bearing high temperature.
- Bearing high pressure.
- Detachable.
- No gasket aging, low operation cost.

Scope of Application

High temperature - high pressure specification often applied at the first stage of co-generation,nuclear power, chemical industry, petrochemical industry, pharmaceutical industry, food freezing, shipbuilding and smelting.

Main specifications

Maximum processing capacity	2500m³/h
Maximum design pressure	60bar
Maximum temperature	500℃
Plate material	AISI304L, 316L, Titanium, Hastelloy, SMO254...

All Welded Detachable Plate Heat Exchanger A-BLOC Series

Four Sides Detachable

High Temperature High Pressure

Easy To Clean

Compact Structure

The fully welded detachable heat exchanger can be used under high temperature and high pressure conditions. Its compact structure and excellent thermal shock resistance make it possible to complete cooling and condensation in the same heat exchanger. Save installation space. The unique structure with detachable sides makes it easier to disassemble and clean. The fully welded detachable plate heat exchanger adopts square plates, the plates are automatically welded to ensure stable and reliable welding quality. Such structure of plate pack will achieve pure countercurrent heat exchange and generate higher turbulence. Under the same working conditions the heat exchange efficiency of A-bloc products is 4 times than traditional tube heat exchangers that means the required heat exchange area will be smaller. At the same time the volume, weight and maintenance space are also reduced greatly. In the working condition with thermal stress, the plate pack can expand and contract in the frame. Resisting the damage of equipment caused by thermal shock effectively.

A-bloc products can be designed with four-sided detachable structure, which is extremely convenient for equipment maintenance and mechanical cleaning. After the cover is disassembled, it can be cleaned by high-pressure water gun to remove dirt. After cleaning, it ensures efficient heat exchange and compact structure, which greatly reduces Equipment operation and maintenance costs.

Product features

- Pure countercurrent high heat transfer efficiency
- compact structure
- less space required, light weight
- Free expansion and resistance to thermal stress
- Detachable on all sides
- High pressure water gun cleaning

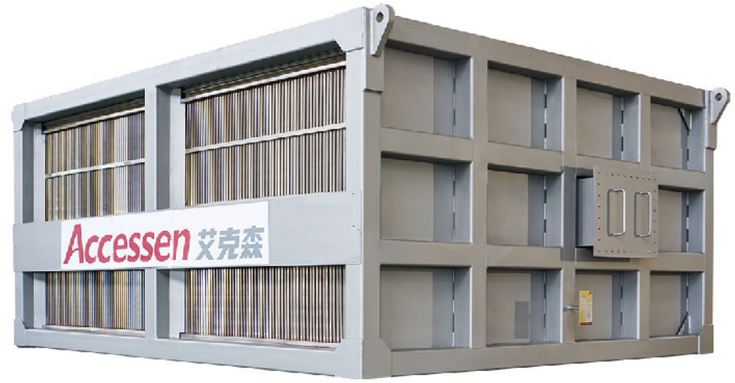
Scope of Application

Natural gas, petroleum refining, organic chemical, pharmaceutical and grease industry, coking plant, chlor-alkali plant, fertilizer production, hydrogen peroxide plant, ammonium nitrate, mining industry, vegetable oil and fatty acid, HVAC (heating, ventilation and cooling), District heating, energy, utility equipments, general services

Main specifications

Maximum processing capacity	1500m³/h
Maximum design pressure	40bar
Maximum temperature	350℃
Plate material	AISI304, 316, 254, Ti

All Welded Gas/Gas Plate Heat Exchanger AWK Series



Professional Design

High Heat Transfer Efficiency

Energy Saving And Emission Reduction

Gas Heat Exchange

AWK All Welded Gas/Gas Plate Heat Exchanger through modular design, the overall product according to the project needs by a combination of multiple modules, it can flexibly meet the project heat exchange and structure of the special requirements, each group of heat exchange core body is composed of a plurality of plates, a group of plates welded to form one side of the channel, the other side through bubbled corrugated to produce another part of the flow channel, through professional design can meet the different flow mode combination, can effectively deal with gas heat transfer conditions. Exhaust gas is commonly used to preheat the air required for catalytic oxidation, so as to make full use of heat and avoid wasting energy. The whole welded plate group is used as the heat transfer unit, and the stainless steel circular nest plate is used as the heat transfer element. The disturbance effect on the flue gas is improved by the convex shape of the plate, which can form turbulence under very low Re, thus enhancing the heat transfer performance of the fluid. The surface of the plate is smooth, not easy to accumulate ash, to avoid energy waste caused by the increase of dirt thermal resistance resulting in the decrease of efficiency; The plates are welded and sealed to ensure that the core of the equipment does not leak. (It can also be adjusted to gas-water heat exchanger process application according to process requirements)

Product Features

- High heat transfer efficiency (cross flow, counter flow)
- Modular assembly, large-scale possible
- Good long-term heat transfer (not easy to accumulate dust, desoldering)
- compact structure
- Air/Air Professional Design
- Flexible Material Combination
- High temperature resistance, corrosion resistance
- Less space required, light weight

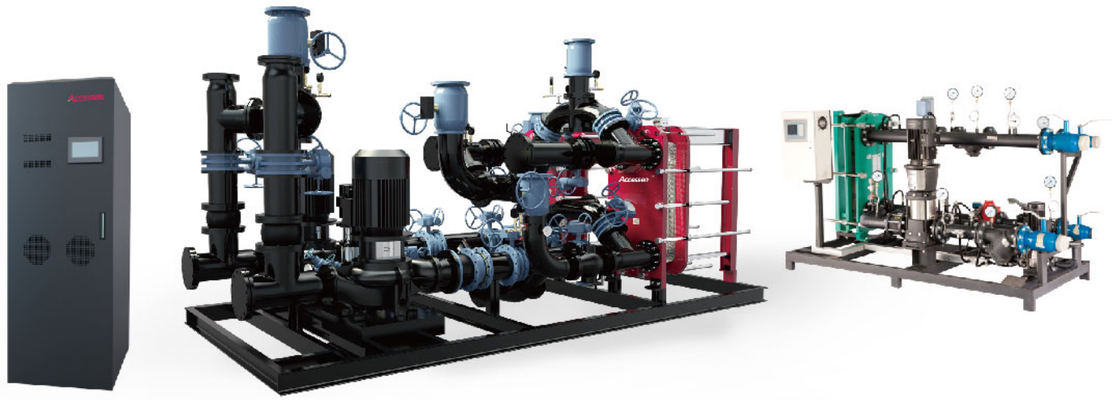
Scope of Application

HVAC, Electrical Energy, Steel Industry, Circulation water cooling, Food & Beverage, Pharmaceuticals, Solar Industry, Electronics Industry, Chemical, Textile, Paper industry, Machinery manufacture,Auto industry, Marine.

Main specifications

Maximum processing capacity	Can be designed according to the project
Maximum design pressure	100Kbar
Maximum temperature	1000℃
Plate material	AISI304, 316, 310S, 2205, 254, Ti, ND

Plate Heat Exchange Unit (PHEU)



Professional Design

Compact Structure

Intelligent operation

Lifetime maintenance

ABJ/GU series heat exchange unit is a complete set of regional heating control equipment which integrates plate heat exchanger, circulating pump, supplementary water pump, thermometer, pressure gauge, various sensors, pipes and valves and industrial control in one. Moreover, it is equipped with water refill system, constant pressure system, water treatment system, variable frequency flow control system, calorimeter and network communication control system. In order to achieve different levels of control function configuration requirements; In combination with Accessen's advanced technology and rich experience, and standing in the forefront level of the industry to select parts of the unit, such as pump, valve and industrial control work, make overall consideration, for users to customize a complete set of heat exchange units with excellent performance more suitable for users' working conditions. The unit includes industrial control, delivered by skid/package,fulfilled by cold condition commissioning，the user only need to install four to five pipelines and a power line to the electric control box of the unit, greatly reducing the workload of the user site and the user's engineering costs, and greatly shortening the lead time.

Product features

- Specialized system design
- Compact structure design, save floor space and capital construction costs
- Intelligent design, man-machine interface unattended, remote monitoring
- Rich experience in operation
- Selection of reliable components
- Professional and reliable service team, quick response and lifetime warranty
- Professional training so that operators can skillfully control

Scope of Application

Central heating, air conditioning, refrigeration, hot water supply, power, industrial process cooling & heating, customer cooling system.

Main specifications

Maximum processing capacity	2500m³/h
Maximum design pressure	25bar
Maximum temperature	150℃
Plate material	AISI304, 316...

Containerized Heat Exchanger Station AMOBILE Series

Amobile

Solution

Outdoor Deployment

Remote Intelligence

Powerful

AMOBILE is a revolutionary innovation in the construction of heat transfer station. It can be flexibly and quickly designed and combined according to different requirements, reduce construction costs and cycle, and quickly realize unsupervised heating. The integral design integrates all the necessary functions of the heat exchange station house, and the standard thermal vacuum degassing system can reduce the operating cost of the system and reduce the corrosion risk of the pipeline, extend the service life and improve the operating efficiency of the system.

Product features

- Compact structure, powerful function
- Intelligent unattended, remote measurement and control
- Integral installation, simple takeover use
- The construction period is short, flexible and simple
- Easy to expand, modular design

Scope of Application

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

Main specifications

Maximum processing capacity	6000KW
Maximum design pressure	25bar
Maximum temperature	150℃
Plate material	SS304, 316, TI...

Samsung Group

Gyeonggi Province, South Korea

- Waste Water Treatment System
- Boiler Waste Heat Recovery
- Process Cooling Water System
- Semiconductor
- Electro-mechanics
- Wuxi, Xian, Suzhou, Tianjin China

Samsung Group is the largest enterprise in Korea and a large and influential enterprise in the world. Samsung Group has many industries and subsidiaries, is a multinational enterprise group with business involving electronics, finance, machinery, chemical and other industries, its subsidiaries include Samsung Electronics, Samsung C&T Company, Samsung Life Insurance Company, Samsung Motor, Samsung Corning, Samsung Securities, Samsung Heavy Industries, Samsung SDI and other companies. South Korea's GDP in 2020 reached 1.58 trillion US dollars, Samsung Group's revenue accounted for more than 15% of South Korea's GDP, of which Samsung Electronics, Samsung C&T, Samsung Life Insurance Company are all the world's top 500 enterprises.

Capitaland Raffles

City in Chengdu , China the rise of a new landmark of West China

- LEED Gold
- ASME U stamp
- 1 C LMTD & PN20
- More than 10000RT
- 1800RT/Unit

CapitaLand is one of Asia's largest real estate companies. Headquartered and listed in Singapore, the multi-local company's core businesses in real estate, hospitality and real estate financial services are focused in growth cities in Asia Pacific and Europe.
The company's real estate and hospitality portfolio, which includes homes, offices, shopping malls, serviced residences and mixed developments, spans more than 110 cities in over 20 countries. CapitaLand also leverages on its significant asset base, real estate domain knowledge, financial skills and extensive market network to develop real estate financial products and services in Singapore and the region.

Raffles City in Chengdu is pleased to have internationally renowned architect Steven Holl as its chief designer. The City will include a 75,00m² office building, a 73,000m² shopping mall, a 43,000m² hotel, and a 13,000m² apartment building. Upon completion, Raffles City will become a landmark of modern architecture in downtown Chengdu, and a gathering place for local consumers, tourists, and business travelers. With Arup, the well-known engineering company, as an advisor, Raffles City will employ the latest energy-saving technology and has applied for LEED certification.

Marina Pinnacle-Dubai Marina

Area 392-206 Block Marsa Dubai of United Arab Emirates

- 260m Heights
- 71 storey tower
- PN25 Max Pressure
- 1 C LMTD
- London' s Chelsea Harbor

Dubai, City of the United Arab Emirates, is one of the world's most prosperous, peaceful, and business-friendly cities. Some have called it an unbelievable city, what its superb infrastructure and hi-tech facilities.
For investors,it is particularly interesting to know that there is nothing called income tax in Dubai.Not only that,companies and individuals alike can repatriate 100% of their capital and profit without any hitch.Not surprisingly,Dubai is increasingly attracting the attention of international investors in its new real estate projects.One such noteworthy project is Marina Pinnacle, a soaring 71-storey tower project heading completion in 2008.
Marina Pinnacle is designed to rival such architectural greats as London' s Chelsea Harbor, Spain' s Puerto Banus or the famous French Rivera' s Monte Carlo. It is divided into residential floors, a retail component, recreational facilities and dedicated parking sections. Its outstanding ground-floor lobby will be marked by high quality granite and marble flooring, enchanting water features, and hardwood and stone walls.
Marina Pinnacle will have one, two and three bedroom apartments, each furnished without top-of-the-league European amenities. Its residents will also benefit from professional housekeeping services as well as nursery and day care facilities. The property will also have round-the-clock security and maintenance, CCTV, high speed internet and 10 high speed elevators.

Ras Laffan C IWPP Project

Palm Towers West Bay, Doha Qatar

- 2730 MW
- SIDEM/VEOLIA
- DEM
- 63 MIGD water
- Middle east electricity awards

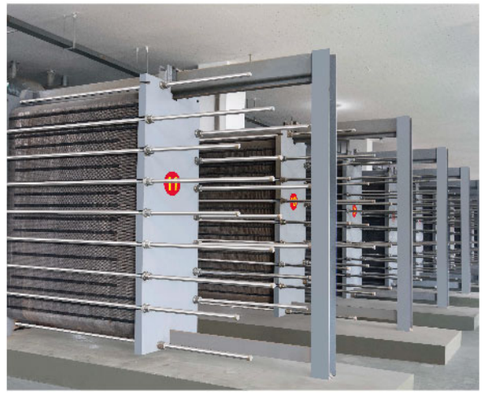
RGPC is a joint venture company incorporated in the state of Qatar with the participation of Qatari Companies namely Qatar Petroleum- QP (15%), Qatar Electricity & Water Company- QEWC (45%), Foreign Multinational Companies. Ras Girtas Power Company (RGPC) established in Qatar in Mid of 2008 and it is now in its operational phase RGPC plant is situated in the Ras Laffan Industrial City. It has a production capacity of 2,730 MW power and 63 MIGD Potable Water. RGPC is one of the largest Co-Generation plant in Qatar and one of the biggest in the Middle East region.This state-of-art fully automated plant with latest technology on board is valued at a projected cost of US$ 3.9 billion (Qatari Riyal 13.85billion).

Ras Girtas will be instrumental in building significant reserve capacity into Qatar's power and water infrastructure, preparing the country for the future as well as providing a margin of additional capacity if required.

Plate Heat Exchanger Used in Various Applications (PHE)

Electric heat storage

Ground-source heat pump



Central heating

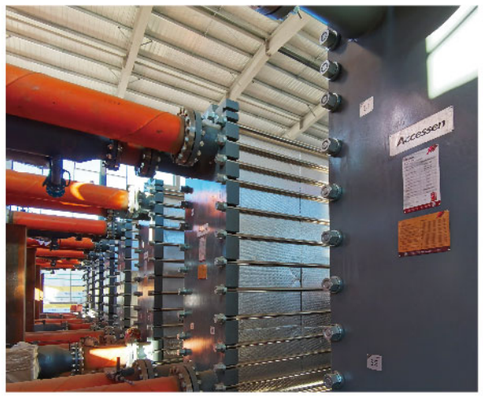
Data center cooling

Free cooling

Marine cooling

Commercial building cooling

Oil cooling



Long distance conveying and pressure isolation station

Metal smelting cooling

Chemical process cooling

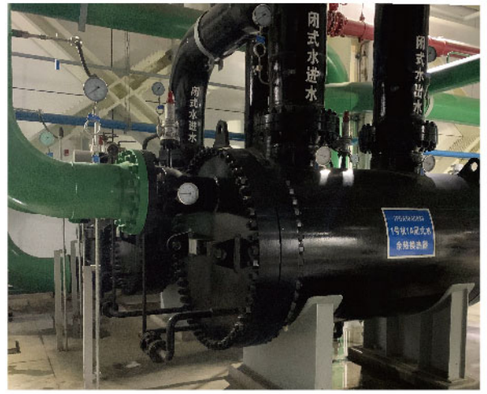
Low temperature radiation cooling

All-Welded Plate Heat Exchanger Used in Various Applications (AWD, AWPS, AWK, A-BLOC)

Thermoelectric steam heating (AWPS)

Pharmaceutical temperature control unit (AWPS)

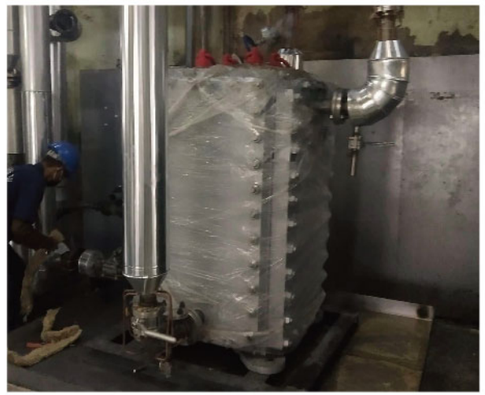
Coal chemical waste heat recovery (AWPS)



Power drainage waste heat recovery (AWPS)

Power drainage waste heat recovery (AWPS)

Seawater desalination MED (AWD)



Diesel cooling (A-BLOC)

Petrochemical steam heating (AWPS)

Petrochemical waste heat recovery (AWK)

Fine chemical drying waste heat recovery (AWK)

Lithium battery waste gas heat recovery (AWK)

Chemical process cooling (AWD)

Plate Heat Exchange Unit Used in Various Applications

Urban centralized heating (PHEU)

Regional Energy Center Cooling (PHEU)

Urban centralized heating (PHEU)

Urban centralized heating (PHEU)

Shield tunneling machine cooling (PHEU)

Waste heat recovery of petrochemical produced water (PHEU)

(PHEU, AMOBILE, AIS)

Integrated heating station in high-cold areas, more than 4000m (Amobile)

Urban heating integration station (Amobile)

Data Center Cooling System Transformation Integration Station (AIS)

Data center cooling system integration station (AIS)

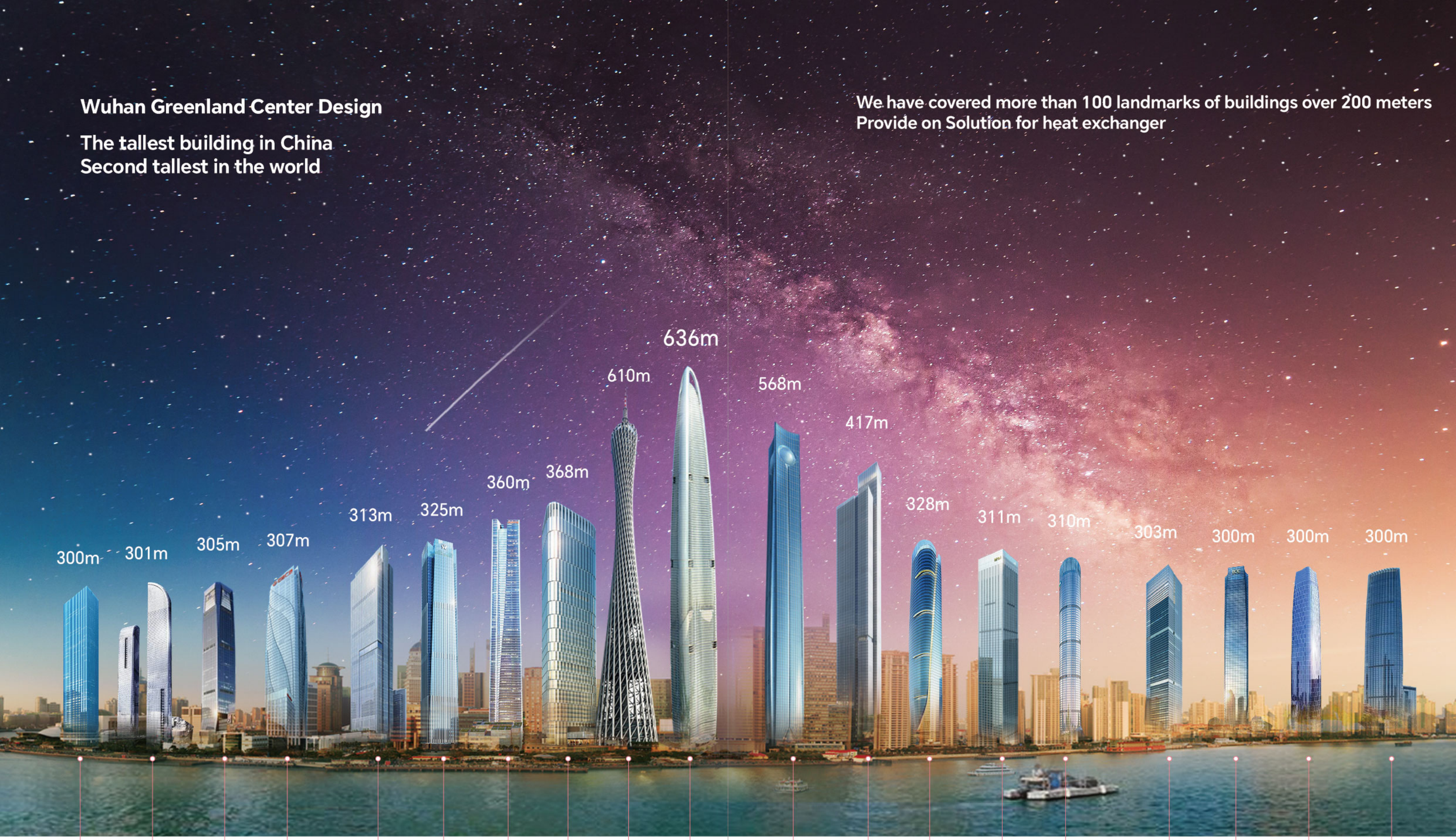
Data center cooling system integration station (AIS)

Data center cooling system integration station (AIS)

Wuhan Greenland Center Design

The tallest building in China
Second tallest in the world

We have covered more than 100 landmarks of buildings over 200 meters
Provide on Solution for heat exchanger



Global partner regarding heat exchange solutions

AIRBUS · Alibaba Group 阿里巴巴集团 · AsahiKASEI · Amkor Technology · BASF The Chemical Company

BAYER · BRIDGESTONE · BAOSTEEL · CATL · CapitaLand

CSCEC · Carrier · Rhodia · ENVISION · FOXCONN

HYUNDAI · Haier · Hilton · HUAWEI · JACOBS

Kodak · LG · LONGI · Microsoft · Mercedes-Benz

Marriott · McQuay International · Oyu Tolgoi · pepsi · PETRA Petra Engineering Industries Co.

REC · Rexroth Bosch Group · SK · ST · Sheraton Hong Kong Hotel & Towers

SOFITEL ACCOR HOTELS & RESORTS · SINOMA · SIEMENS · SPANSION · SIDEM Steering in safety

Shangri-La hotel · Sateri · Sinopec · SAMSUNG

TRANE · VEOLIA · YANMAR · YORK

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Send inquiry

RFQ US

E-Mai l: info@accessen.com
Fax : +86 21 6958 5917

Customer Information	
Customer:	Project:
Attention:	E-Mail:
City/State/zip:	Phone:
Street:	Fax:

1. Quote Turnaround: ☐ Std. Turnaround - 5 Business Days ☐ Specified Turnaround _____
2. Formal Quote Required: ☐ Yes ☐ No
3. Type of Quotation: ☐ Buy ☐ Budget ☐ Design
4. ASME Code Stamp: ☐ Yes ☐ No
5. Other: _____

Items marked in * should be completed for best sizing and quickest turnaroung.

Design Conditions	Hot side	Cold side
*Fluid Circulated		
Total Flow Rate	M^3/h	M^3/h
*Temperature In	deg.C	deg.C
*Temperature Out	deg.C	deg.C
*Pressure Drop Allowed	KPa	KPa
*Heat Exchange Load	Kw	
Design Pressure	Mpa	
Test Pressure	Mpa	
Design Temp*	deg.C	
Specific Heat	Kj/(kg.K)	Kj/(kg.K)
Density	Kg/ M^3	Kg/ M^3
Thermal Conductivity	W/(m.K)	W/(m.K)
Viscosity* (2"d Temperature)	cp/ deg.C	cp/ deg.C

Materials of Plate ☐ 304 ☐ 316 ☐ SMO254 ☐ Titanium ☐ HSC276 ☐ Other remarks below

For fluids other than water or steam, fluid properties should be furnished. (properties see below Design Temp)

Remarks / Application Details:

Accessen