

A collage of industrial machinery, including pipes, gauges, and mechanical components, arranged in a diagonal, overlapping fashion. The background is a light, textured grey.

**Accessen** 艾克森

A C C E S S E N G R O U P

INDUSTRY

PRODUCT

APPLY

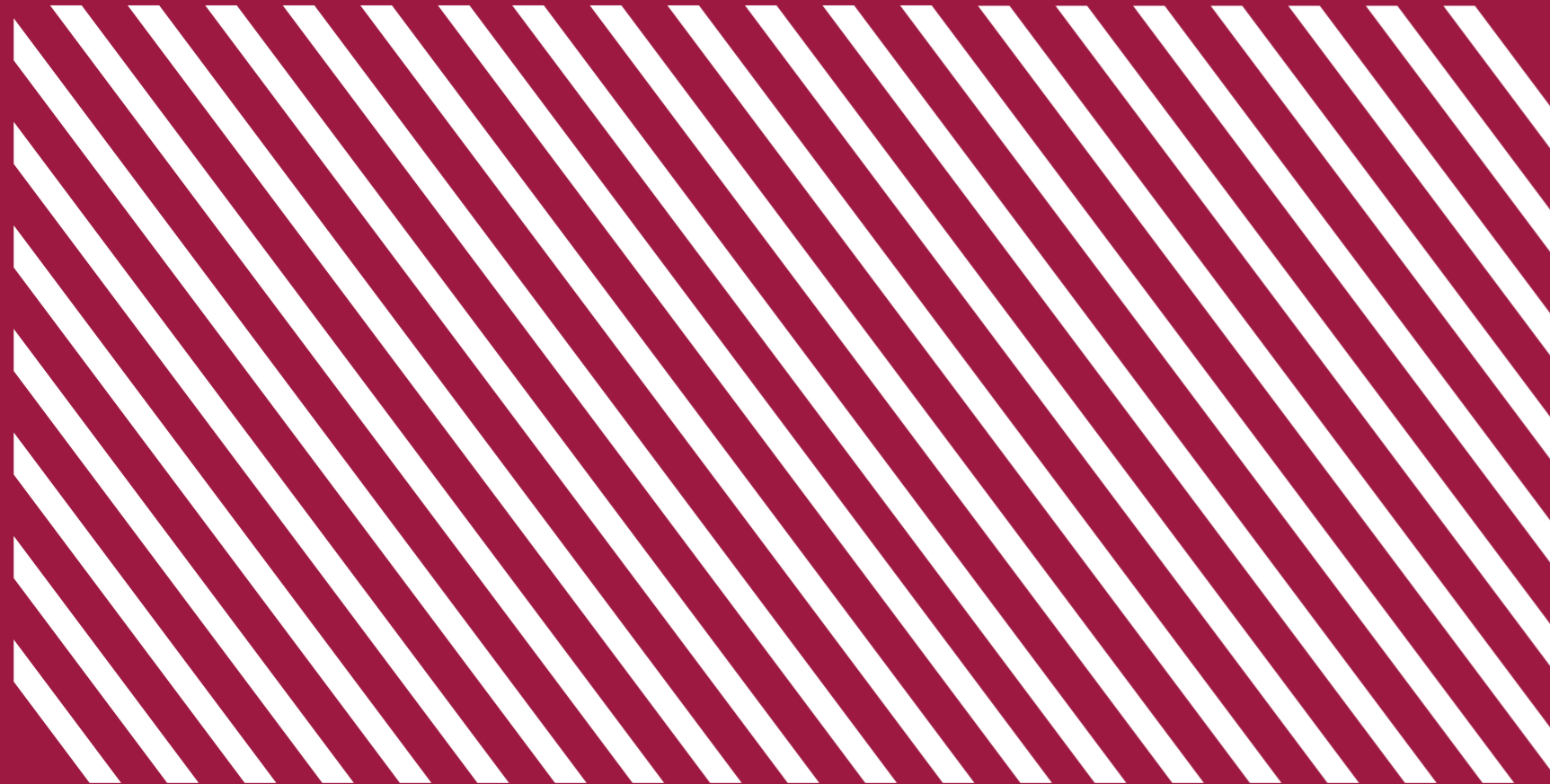
工业·产品·应用

INDUSTRY

PRODUCT

APPLY

工业·产品·应用



上海艾克森集团有限公司是专业从事换热设备研发、制造、销售及服务的换热解决方案提供商，公司通过ISO9001：2000质量体系认证、ISO14001：2004环境质量体系认证、OHSAS18001：1999职业健康安全体系认证。注册资金5580万，年销售额超过5亿人民币。

公司于2002年在上海成立，生产总部位于中国上海市黄渡工业园。拥有曹安路工厂/一期、谢春路工厂/二期和太仓港区工厂/三期，3个制造工厂共计10多万平米，年生产换热器30000台、换热机组5000套，是全球最大的换热设备生产基地之一。遵照全球统一的AS标准生产包括板式换热器、板式换热机组、板壳式换热器、全焊式换热器、蒸发器及冷凝器、工艺水冷却系统、余热回收系统在内的全系列换热设备，同时也提供符合ASME、PED - CE、API、JIS、IEC、DNV、ABS、BV、CCS、GB等国际规范和标准的产品。

公司主要负责向亚太地区的暖通空调、制冷、能源电力、冶金、化工、食品、电子、船舶及环境处理等市场提供按需应变的换热解决方案和客户服务。公司直属的销售和服务网络覆盖国内 27个主要省市，拥有400多个服务网点，2个技术培训和产品中心，产品提供全国或全球联保服务，能就近为客户提供快速、高效的服务。赢得了包括SIEMENS、BAYER、BASF、DOW、BOSCH、3M、HITACHI、COCACOLA、UNILEVER、INTERCONTINENTAL、EMERSON、HYDNDAI、SINOPEC、LAFARGE、FOXCOM等全球500强客户的信赖，选择艾克森——让你的工作变的更加轻松。

艾克森为你提供全球领先的按需应变换热解决方案，专业提供高品质的换热设备和快速、高效的服务。

Shanghai ACCESSEN Group Co., Ltd is specialized in the design, manufacture, sale and service of heat exchangers. The company adheres to the highest levels of quality and has obtained numerous certifications of quality, including ISO9001:2000, ISO14001:2004, and OHSAS18001 : 1999 Registered capital of 55.8 million RMB, Sales Revenue over than 500 million RMB 2012.

Established in 2002, the company has grown to become one of the largest manufacturers of heat exchangers globally, with three manufacturing facilities in Shanghai Huangdu industrial park in China – Caoan Road plant, Xiechun Rd factory, and Taicang plant – together combining more than 100,000 square meters. ACCESSEN manufactures strictly according to AS standards to produce the highest quality plate heat exchangers, plate heat exchanger units, plate and shell heat exchangers, full welding heat exchangers, evaporators and condensers, process water cooling systems, rest heat recovery systems. Our corporation also offers many standard products which are manufactured per international code requirements, including ASME, PED - CE, API, JIS, IEC, DNV, ABS, BV, CCS, GB, etc.

The company's primary geographic market is in the Asia-Pacific, offering unparalleled heat transfer solutions and customer services fulfilling different industry needs, such as HVAC, refrigeration, energy, power, metallurgy, chemical, food, electronic, marine and environmental treatment. ACCESSEN's sales and service network covers 27 major cities, with more than 400 service outlets, 2 technical training and product centers, offering domestic and international warranty service, with speed and efficiency which has gained the trust of Fortune 500 companies, such as SIEMENS, BAYER, BASF, DOW, BOSCH, GE, HITACHI, TATA, COCA-COLA, UNILEVER, INTERCONTINENTAL, EMERSON, HYUNDAI, SINOPEC, LAFARGE, FOXCOM etc.

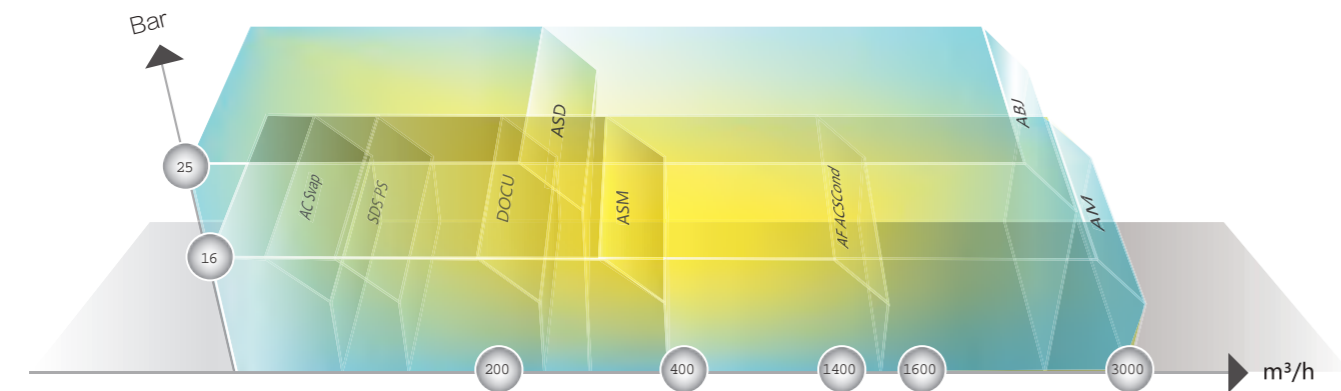
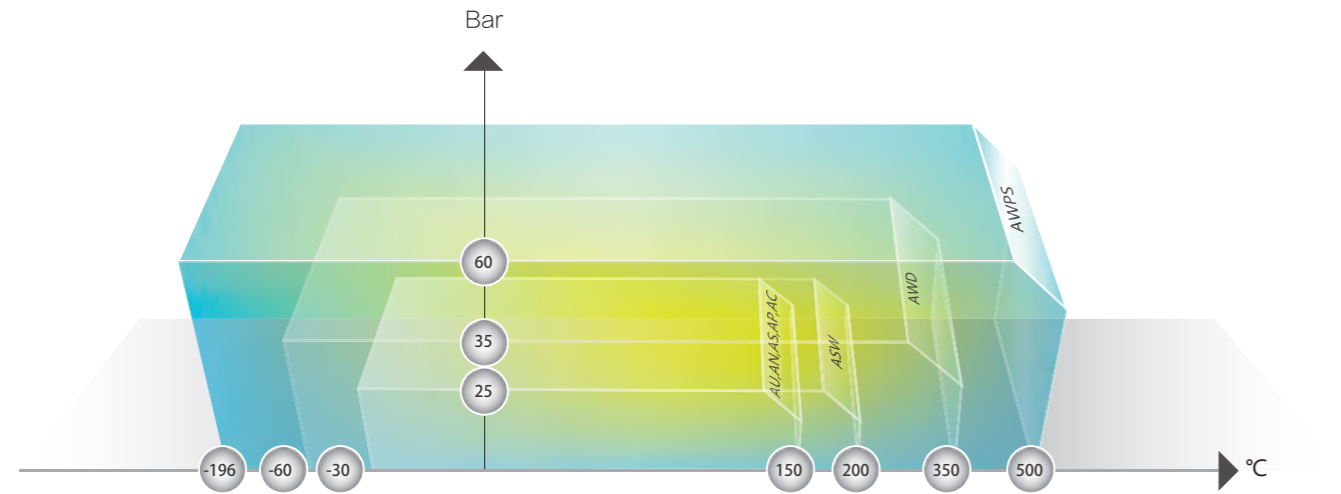
Select ACCESSEN, and rest assured you are in good hands, as ACCESSEN provides the world's leading heat exchanger solutions, high quality heat transfer equipment, and efficient service.



# 按需应变的换热解决方案！ On Solution For Heat Exchanger

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**P** 换热器产品应用范围  
Plate Heat Exchanger Product Range



\* 以上为产品推荐使用范围，我们也为客户定制特殊的换热器。



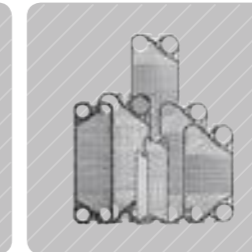
AU, AN, AS, AP, AC系列  
可拆垫片式换热器



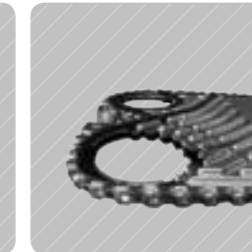
AM系列船舶及海洋工程应用



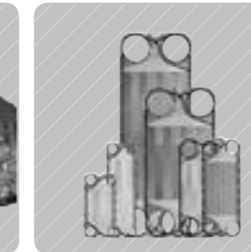
ASM系列不锈钢  
多段式板式换热器



AF系列无触点  
超宽流道板式换热器



ASD系列安全双壁板式换热器



ASW系列  
激光半焊接板式换热器



AWD系列全焊板框式换热器



AWPS系列板壳式换热器



ACSVap系列板式蒸发器



ACSCond系列板式冷凝器



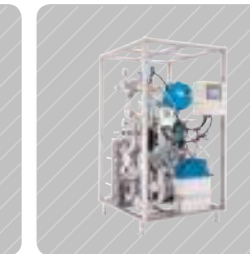
SDS系列海水淡化成套装置



DOCU系列双联式油冷却装置



ABJ定制系列板式换热机组



PS标准系列板式换热机组

在众多工业场合的应用中，可拆垫片是能够满足大部分的场合应用，由于板片采用带免粘式垫片组成换热核心元件，这种类型的换热器具有非常高传热系数，同时有非常好的经济性对比，在工业使用过程中安全可靠和拆洗维护方便等特点。Accessen换热器根据不同的应用工况开发专业板型能够具有更好的效率和使用效果，共计60个型号能够覆盖不同处理量，不同水质和不同温度的工业应用。独特的板型设计在同一个口径的换热器里面有不同角度的板片，不同槽深，不同长宽比的换热器型号，能够更好的满足具体使用的要求。意味着在相同的工况情况下，Accessen拥有更多的选择，获得更高的传热系数和压力降能最大限度的利用，合理的流速设计能够减少设备的停机维护时间。

In many industrial applications, removable gasket is able to meet most of the applications, because the plate with free sticking type gasket comprises a heat exchange core components, this type of heat exchanger has high heat transfer coefficient, also with a very good economic performance, safety and reliability in the using of industry, convenient maintenance etc. Accessen's heat exchanger according to the different application condition to develop special plate type which have better efficiency and using effect, a total of 60 models were able to cover different

processing capacity, different water quality and different temperature of industrial application. The unique pattern design that the same caliber of the heat exchanger with different angle plate, different groove depth, different ratio of length to width of heat exchanger model, can better meet the requirements of specific using condition. Means in the same using condition, Accessen has more choices, obtain higher heat transfer coefficient and pressure drop can maximize the utilization, reasonable flow rate design can reduce equipment's maintenance time when shutdown.

## 可拆垫片式换热器 AU, AN, AS, AP, AC 系列 Gasket Plate Heat Exchanger (AU, AN, AS, AP, AC Series)

### 适用范围 / Scope of Application

适用所有常规非高温高压的工业应用，水处理，制药，食品，船舶，化工等各个行业。

Apply to all the normal temperature and pressure's industrial applications, water treatment, pharmaceutical, food, marine, chemical and other industries.

### Characteristic / 特点

改进后的导流区能够使流体在板片上均匀分配流量。  
The improved diversion area can make the uniform distribution of fluid flow in the plate.

板片的大小角度设计组合能够最大限度的利用压力降。  
Plate's different angle design combined to maximize the use of pressure drop.

消除了污垢堆积区。  
Eliminate the dirt accumulation zone.

波纹与流道的设计能够产生强烈湍流及换热系数。  
Corrugated and pass channel design to produce strong turbulent flow and heat transfer coefficient.

板片四角自锁装置能够保证不错位。  
Plate's four angles with self-locking device can avoid dislocation.

标准屋顶垫片，垫片防漏设计，能够大大延长垫片寿命。  
Standard roof gasket, gasket leak proof design, can greatly extend gasket's using life.

免粘卡扣式密封垫片。  
Free sticking type sealing gasket.

更多附件供选择。  
Free sticking type sealing gasket.

### Main specifications / 主要规格

最大处理量  
Maximum processing capacity 4500m<sup>3</sup>/h

最大设计压力  
Maximum design pressure 25bar

最高耐温  
Maximum temperature 200°C

最小对数温差  
Minimum LMTD 0.5-1°C

板片材质  
Plate material AISI304, 316, 316L, 904L, Titanium, Hastelloy, Ni, SMO254...



可拆垫片式换热器 AU, AN, AS, AP, AC 系列  
Gasket Plate Heat Exchanger (AU, AN, AS, AP, AC Series)

## 船舶及海洋工程应用AM系列

Shipping and Marine Engineering Application AM Series

### 适用范围 / Scope of Application

适用于船舶行业的各个工艺过程。  
Suitable for all technical process of the ship industry.

运行可靠、高效环保、节省空间，维护方便，是对当前船舶及海洋工程设备的最基本并苛刻的要求。AU, AP, AS, AN四大系列30多个品种的换热器保证了针对船用换热器各个工况（中央冷却器/缸套水冷却器/滑油冷却器/燃料油冷却器/空调等）的要求，能够分别给出最可靠高效的方案，使得船舶冷却系统的正常运行得到长久的保障。可选择的换热器附件配置（接口金属翻边、船用压力和温度表、后插式过滤器等）也向船厂和船东提供了更多的人性化服务。

**Reliability**, high efficiency and environmentally friendly and space-saving design, along with easy maintenance, are the most basic requirements of ship and marine engineering equipment. The AU, AP, AS, AN four series, which has more than thirty varieties of heat exchangers, comply with the requirements of these demanding conditions, including (Central cooler / jacket water cooler / oil cooler / fuel oil cooler / air conditioning etc.), which offer the most reliable and efficient solutions to ensure the functionality and long term security of the ship cooling system.

Optional heat exchanger accessories (Interface metal flanging, marine pressure and temperature gauge, after insertion filter) also provide more customization choices for the shipyard and ship-owner.

#### Characteristic / 特点

先进的板纹设计，高效更环保。  
Advanced plate grain design, more efficient and environmental protection.

结构紧凑，占地面积更少。  
Compact structure, less installation area.

优质的板材，使用可靠性更高。  
The high quality of plate, more reliable.

良好可靠的密封，泄漏更少。  
Reliable sealing, less leakage.

全球售后服务系统，维护更放心。  
The global customer service system, more assured maintenance.

#### Main specifications / 主要规格

最大接口口径  
Maximum connecting diameter

3000m<sup>3</sup>/h

最大设计压力  
Maximum design pressure

16bar

最高耐温  
Maximum temperature

150°C

板片材质  
Plate material

Titanium、AISI304、AISI316...

垫片材质  
Gasket material

NBR、EPDM...



## 不锈钢多段式板式换热器ASM系列

Stainless steel multistage type plate heat exchanger ASM series

### 适用范围 / Scope of Application

各类食品、饮料和医药行业中工艺加热及冷却。  
Process heating & cooling of all kind of food and pharmaceutical.

由于食品饮料和生物医药行业对产品的卫生等级和产品品质要求非常高，其产品生产和材质不同于以往传统的换热器要求，Accessen高品质的不锈钢换热器设计流道宽度不同，可以处理洁净流体到颗粒纤维的果汁等不同的物料，保证长期稳定的运行，减少停机维护时间，在食品饮料和医药行业被广泛应用。食品级的垫片按FDA标准生产，完全满足卫生等级的要求，免粘式的设计延长了使用寿命和避免物料受到胶体的污染。不锈钢多段式换热器在食品饮料加工中被广泛的使用，可以满足多种物料在同一换热器内完成热回收，高温杀菌，均质，保温，冷却等多道工艺，是一种非常节能的换热器应用。

As a result of food and pharmaceutical industry have a high requirement of health level and product quality, its production and material different from the traditional heat exchanger, Accessen's high-quality stainless steel heat exchanger have the different design of channel width, can handle the clean fluid to the particle fiber fruit juice etc, ensure long-term stable operation, reduce maintenance time when shutdown, in the food and pharmaceutical industries are widely used. Food grade gaskets according to FDA standard, fully meet the health level requirements, free sticking type design prolongs the service life and avoid material polluted by the glue. Stainless steel multistage type heat exchanger in food processing industry is widely used, can meet a variety of material's heat recovery on the same heat exchanger, high temperature sterilization, homogenization, insulation, cooling and other process, is an incredibly energy efficient application.

#### Characteristic / 特点

具有可拆式换热器所有特点。  
Own all features of removable plate heat exchanger.

食品级垫片满足FDA卫生级要求。  
Food grade gaskets meet the requirements of FDA health level.

框架板和夹紧螺栓均为外包或全不锈钢。  
Frame plate and fasten bolt all be out-in package or full stainless steel.

可以满足多种物料交换。  
Meet many kinds of fluid material transfer.

更多附件供选择。  
More spare parts for choice.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity

350m<sup>3</sup>/h

最大设计压力  
Maximum design pressure

16bar

最高耐温  
Maximum temperature

180°C

板片材质  
Plate material

AISI304、316、316L等



不锈钢多段式板式换热器ASM系列  
Stainless steel multistage type plate heat exchanger ASM series



## 无触点超宽流道板式换热器AF系列

Non-contact super wide-channel plate heat exchanger AF series

### 适用范围 / Scope of Application

食品饮料、纸浆、油品等高粘性混体及含纤维物质。

Food, pulp, oil and other high viscous mixture and fibrous material.

无触点超宽流道板式换热器即自由流板式换热器Freeflow产品是针对粘性颗粒及纤维状易堵塞常规宽流道板式换热器物料介质而开发的新型换热器，超宽流道可保证较大颗粒状流体通流能力，无触点保证物料不会在板片支撑点上滞留堵塞，同时合理的板型设计与传统宽流道换热器相比还具有较高换热效率。

Non-contact super wide-channel plate heat exchanger, that is, free flow plate heat exchanger. Freeflow product in the light of the problem that the cohesionless granular and fibrous clogging conventional material medium which always blocks normal wide-channel plate heat exchanger and development, super wide-channel can ensure the larger granular fluid flow capacity, contactless ensure material not residual in the plate supporting points, while reasonable pattern design compared to traditional wide-channel heat exchanger also has higher heat exchange efficiency.

#### Characteristic / 特点

流道设计获得完美的物料分流，板片无死区。  
Channel design to obtain perfect material shunt, without dead area.

超宽流道能够通过大直径的颗粒。  
Super wide-channel be able to through the larger diameter particles.

无触点保证不会堵塞挂壁面。  
Nun-contact to ensure without block.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity

1500m<sup>3</sup>/h

最大设计压力  
Maximum design pressure

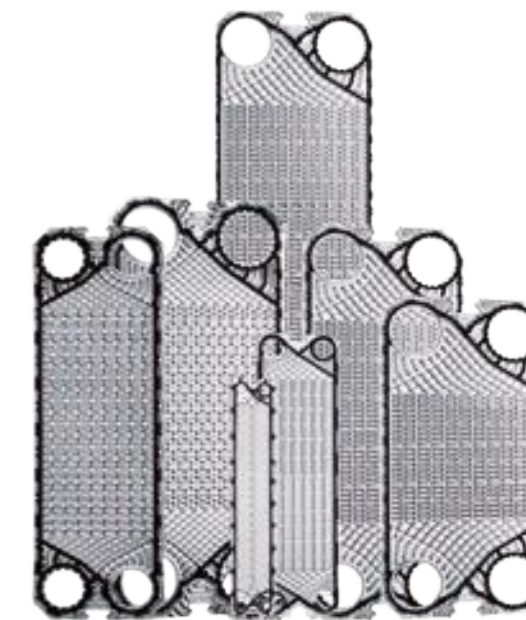
16bar

最高耐温  
Maximum temperature

150°C

板片材质  
Plate material

AISI304、316、316L等



无触点超宽流道板式换热器AF系列  
Non-contact super wide-channel plate heat exchanger AF series

安全双壁板式换热器是由两薄板片沿每对板片的角孔周边焊接成一体，当板片可能的泄露发生时，例如长时间使用穿孔，可以在外部检测到，从而防止了两种物料相互混合的可能，并起到了警示内部泄露的作用。和垫片的双道密封结合起来，就避免了两种物料混和的可能性，适用于卫生要求较高的或工业生产安全可靠性的应用场合。由于两张板片焊接形成一张板片，势必降低了板片的传热系数，但在隔绝物料混合上具有最高的安全性。

**Safety** double-wall heat exchanger is composed of two plates on plate angle along each hole is welded, when the plate may occurs leakage, such as use of perforation for long time, can be detected in the exterior, thereby preventing these two kinds of material mixed with each other, and played the role of warning of internal leakage. Combined with the gasket's double sealed, avoids the possibility of two kinds of material mixed, Applicability of the occasions which has high requirements of health or high security requirements of Industrial production. As the two plates are welded together, which reduces the plate heat transfer coefficient, but owned maximum security in the isolated material mixed.

#### Characteristic / 特点

确保两种物料不发生混合。  
To ensure that two materials do not mix.

泄露可直观检测。  
To observe leakage directly.

双重板片激光焊接。  
Double plates are laser welded.

运行无需压力调节设备。  
Without pressure control equipment when running.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity **300m<sup>3</sup>/h**

最大设计压力  
Maximum design pressure **25bar**

最高耐温  
Maximum temperature **150°C**

板片材质  
Plate material **AISI304、316、316L...**



安全双壁板式换热器ASD系列  
Safety double-wall plate heat exchanger ASD series

## 安全双壁板式换热器ASD系列

Safety double-wall plate heat exchanger ASD series

### 适用范围 / Scope of Application

卫生级用水、净化水和注射药剂用水、核工业的安全等对安全要求苛刻的场合。  
Health level water, pure water, injection water, nuclear industry safety and other occasions which have more high requirements.



## 激光半焊接板式换热器ASW系列

Laser semi-welded plate heat exchanger ASW series

### 适用范围 / Scope of Application

工业制冷、血浆、食品饮料、纸浆、油品等。  
Industrial refrigeration, plasma, food and drink, pulp, oil...

激光半焊式换热器是将原来特殊情况下不能使用垫片或者安全性要求比较高的场合使用，在特殊物料的一侧采用激光焊接，对要求洁净度较高的场合。另外一侧采用垫片的形式，半焊式换热器除了一侧垫片的位置采用激光焊接之外，其他与板式换热器性能完全一致。

Laser semi welded plate heat exchanger adopt laser welding of the special material side which has high cleanliness requirement situation, solve that can't use the normal gasket. The other side adopts gasket, that semi welding type heat exchanger in addition to one side using laser welding, the other performances are exactly as the same as plate heat exchangers.

#### Characteristic / 特点

包含所有可拆式板换优点。  
Contains all advantages of plate exchange advantages.

特殊物料通道采用激光焊接。  
Special material passage adopt laser welding.

密封圈CR或PTFE垫片材料。  
Sealing ring using CR or PTFE materials of gasket.

一侧焊接高稳定安全性。  
One side welding with high stability and safety.

与全焊相比更高效和可拆。  
Compared to full welding with the more efficient and removable.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity **600m<sup>3</sup>/h**

最大设计压力  
Maximum design pressure **25bar**

最高耐温  
Maximum temperature **150°C**

板片材质  
Plate material **AISI304、316、316L、Titanium、Hasetlloy...**



激光半焊式换热器ASW系列  
Laser semi welded plate heat exchanger ASW series

## 全焊板框式换热器AWD系列

Plate & frame type plate heat exchanger AWD series

### 适用范围 / Scope of Application

化学工业、石油化工天然气、食品医药、电站等各个领域。

Chemical industry, petroleum chemical industry of natural gas, food and medicine, power plants and other fields.



全焊板框式换热器，是一种吸取了可拆式板式换热器的优点，弥补的管式换热器的不足的新型高效换热设备，在原来半焊式换热器的基础上完全取消了垫片，能够使用中压、中温的应用场合。它保留了可拆式换热器全逆流换热特性，比传统管壳式换热器效率高3 - 5倍，根据应用场合的情况要求板框式分为三种，不可拆、单侧可拆、双侧可拆。

Full welding plate & frame plate heat exchanger is a new type heat exchanger, absorbing the advantages of removable plate heat exchanger, make up for the deficiency of tube type heat exchanger. In the basis of semi-welding heat exchanger to complete remove gasket, could use in the occasion of middle pressure & temperature. 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, irremovable, Unilateral removable, double side removable.

#### Characteristic / 特点

保留了可拆式换热器的传热特性。  
Remains heat transfer characteristics of removable heat exchanger.

污垢系数低。  
With low fouling coefficient.

耐高温。  
Bearing high temperature.

耐高压。  
Bearing high pressure.

可拆洗。  
Detachable.

无垫片老化运行费用低。  
No gasket aging, low operation cost.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity **2500m<sup>3</sup>/h**

最大设计压力  
Maximum design pressure **35bar**

最高耐温  
Maximum temperature **350°C**

板片材质  
Plate material  
AISI304、316、316L、  
904L、Titanium、  
Hasetlloy、Ni、SMO254...



全焊板框式换热器AWD系列  
Plate & frame type plate heat exchanger AWD series

## 板壳式换热器AWPS系列

Plate and shell heat exchanger AWPS series

### 适用范围 / Scope of Application

化学工业、石油化工天然气、食品医药、电站等各个领域。

Chemical industry, petroleum chemical industry of natural gas, food and medicine, power plants and other fields.

全焊板壳式板壳式换热器是一种适用于高温、高压场合的新型高效换热器。全焊板壳式换热器结构简单，它由壳体、换热板片组、进出口接管和法兰，盖板和支座组成，结合了可拆式高效和管壳式高温高压的优点，与全焊板框式相比具有更高的耐温和耐压，能够有效的替代管壳式换热器。

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, import and export pipes and flanges, cover plate and support base, combined with efficient of removable heat exchanger and high temperature and high pressure of the 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 pipe and shell heat exchanger.

#### Characteristic / 特点

保留了可拆式换热器的传热特性。  
Remains heat transfer characteristics of removable heat exchanger.

污垢系数低。  
With low fouling coefficient.

耐高温。  
Bearing high temperature.

耐高压。  
Bearing high pressure.

可拆洗。  
Detachable.

无垫片老化运行费用低。  
No gasket aging, low operation cost.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity

2500m<sup>3</sup>/h

最大设计压力  
Maximum design pressure

60bar

最高耐温  
Maximum temperature

500°C

板片材质  
Plate material

AISI304L、316L、  
Titanium、Hasetlloy、  
SMO254...



板壳式换热器AWPS系列  
Plate and shell heat exchanger AWPS series

## 板式蒸发器 ACS Vap 系列

Plate evaporator ACS Vap Series

### 适用范围 / Scope of Application

各类食品饮料、医药生物、天然有机物和化工冶炼行业。  
Various types of food, drink, pharmaceutical, natural organic matter and chemical smelting industry.



## INDUSTRIAL PRODUCT APPLY / 工业·产品·应用

板式蒸发器是在结合板式换热器的优点的基础上开发出来高效节能板式蒸发器，与传统列管式蒸发器相比具有更高的效率和更经济的运行。根据工艺不同分为升降膜联合（4片一组）、降膜式（2片一组）、强制循环闪蒸器等多种产品应用，在食品饮料和医药行业被广泛的使用。除了提供单独的板式蒸发器之外，Accessen还提供交钥匙工程的成套系统，让你的工作更加轻松。根据初投资和能耗不同选择不同的蒸发方式，在投资和经济运行之间取得完美平衡。

Plate evaporator is a high efficient and energy saving evaporator which on the basis of advantages of plate heat exchanger, compared with traditional tube evaporator it has higher efficiency and more economical when running. According to the process it could be divided into different types, such as lifting membrane combined (4 pieces for one

group), falling membrane type (2 pieces for one group), forced circulating flash device etc, which are used in the food, drink, pharmaceutical industries widely. In addition to providing plate evaporator separately, Accessen also provides turnkey system unit, make your job easier. According to the initial investment and different

### Characteristic / 特点

逆流换热小端差。  
Countercurrent heat exchange, low difference of end side.

完美的物料分流，提高产品质量。  
Perfect diversion of materials, improve product quality.

在流通区域设计有泄露观察槽。  
With leakage observation groove in the circulation area.

符合卫生等级3A标准。  
Confirm to 3A standard.

长寿命的食品级垫片FDA。  
Long life of food grade gasket FDA.

节省空间和安装费用。  
Save space and installation cost.

更低的能耗指标，经济运行。  
Lower energy consumption index, economic operation.

便于扩容和清洗。  
Expansion and cleaning is convenient.

### Main specifications / 主要规格

最大处理量  
Maximum processing capacity **50m<sup>3</sup>/h**

最大设计压力  
Maximum design pressure **16bar**

最高耐温  
Maximum temperature **200°C**

板片材质  
Plate material **AISI304L、316L...**



## 板式冷凝器ACSCond系列

Plate-type condenser ACSCond series

### 适用范围 / Scope of Application

各类食品饮料、医药生物、天然有机物和化工冶炼行业。  
Various types of food, drink, pharmaceutical, natural organic matter and chemical smelting industry.



板式冷凝器是在结合板式换热器的优点的基础上开发出来高效节能冷凝器，由一个小冷凝液出口及一个大的蒸汽进口组成的ACS-Cond是为真空冷凝而特制的。为获得最佳冷凝效果而特别设计的这种板型，具有两侧窄流道之分，在蒸汽侧的间隙较大，在冷水侧有的间隙较小。这样就可以在蒸汽端维持一个非常低的压降，而冷却水侧仍可以保持一定的速度和端流。因此将结垢程度减到最小，保持热传导效率达到最大。

Plate condenser is the energy efficient condenser which developed on the basis of the advantages of plate heat exchanger, comprising a small condensate outlet and a large steam inlet, consisting of ACS-Cond and special for vacuum condensation. The special pattern design is achieving the best cooling effect, with both sides of the narrow channel, with larger gap at the steam side, with smaller gap at the water side. This design just maintain a very low pressure drop at the steam end, and the cooling water side can still maintain a certain speed and end flow. Thus the fouling to be minimized, keep the maximum heat conduction efficiency.

#### Characteristic / 特点

逆流换热小端差。  
Countercurrent heat exchange.

节省空间和安装费用。  
low difference of end side.

更低的初投资成。  
Save space and installation cost.

减少结垢。  
Lower initial investment cost.

便于扩容和清洗。  
Reduced fouling Expansion and cleaning is convenien.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity

1500m<sup>3</sup>/h

最大设计压力  
Maximum design pressure

16bar

最高耐温  
Maximum temperature

200°C

板片材质  
Plate material

AISI304L、316L...



## 双联式油冷却装置DOCU

Duplex oil cooling device

### 适用范围 / Scope of Application

适用于汽轮发电机组、压缩机组、风机、泵组及石油化工行业上的油冷却系统，又称发电机组冷却器、压缩机组冷却器、风机油冷却器、泵组油冷却器等。

Applied to the turbine, compressor, fan, pump and oil chemical industry of the oil cooling system, also called the turbine cooler, compressor oil cooler, oil cooler, the pump oil cooler.



该冷却器采用双联结构，由两只相同面积的高效可拆式板式冷油器和三通阀装置构成，一台工作，一台备用，每个冷却器能承担整个系统的冷却负荷，便于运行过程中清洗、检查和维修。冷却器的材质，根据使用场所、水系统条件可有多种选择。

The cooler with a double structure, which is composed of two identical area efficient removable plate oil cooler and a three-way valve device, one for working, another for backup, each cooler can assume the whole system cooling load, convenient cleaning, inspection and repair when running. Cooler material, according to the workplace conditions, water system can have multiple choices.

#### Characteristic / 特点

体积更小节省空间和安装费用。  
Save space and installation cost.

更低的初投资成。  
Lower initial investment cost.

减少结垢。  
Reduced fouling.

便于扩容和清洗。  
Expansion and cleaning is convenient.

高效的传热。  
Efficient heat transfer.

更少冷却水量节约能耗。  
Less cooling water, energy saving.

高安全可靠，避免换热器内漏。  
High safety reliably, avoid the heat exchanger leakage.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity

300m<sup>3</sup>/h

最大设计压力  
Maximum design pressure

16bar

最高耐温  
Maximum temperature

110°C

板片材质  
Plate material

AISI304、316L...





## 海水淡化成套装置SDS系列

Seawater desalination equipment SDS series

### 适用范围 / Scope of Application

海水淡化, 船舶, 柴油机配套, 钻井平台和海岛等。  
Seawater desalination, ships, diesel engine, drilling platform and island etc.

海水淡化成套装置利用柴油发动机夹套冷却水的热能蒸发海水而生产纯水的紧凑装置, 并且可以利用低于48°C 的补给水进行蒸发。也可采用蒸汽或废热蒸汽作为热源, 替代夹套水。装置的核心海水淡化器由两台无外壳的钛板换热器组成, 采用合体板片在内部保持真空状态, 分别用于蒸发、分离和冷凝处理用。

Seawater desalination equipment is a compact device which using cooling water heat evaporating sea water of diesel engine and production water, also can use the supply water evaporation which the temperature below 48°C. Also can use the steam or the waste steam as heat source, which instead of water. The device's core seawater desalination device composed of two titanium plate heat exchanger without shell, the body board piece kept interior of vacuum state, used for evaporation, separation and condensation processing.

#### Characteristic / 特点

体积更小节省空间和安装费用。  
Save space and installation cost.

更低的初投资成。  
Lower initial investment cost.

减少结垢。  
Reduced fouling.

便于扩容和清洗。  
Expansion and cleaning is convenient.

高效蒸发减少海水量。  
Efficient evaporation, reduces the volume of seawater.

节能的长期运行费用。  
Energy and saving running cost.

同时也降低了二氧化碳排放。  
Also reduced carbon dioxide emissions.

#### Main specifications / 主要规格

最大处理量  
Maximum processing capacity

100m<sup>3</sup>/h

最大设计压力  
Maximum design pressure

16bar

最高耐温  
Maximum temperature

200°C

板片材质  
Plate material

Titanium...



海水淡化成套装置 SDS系列  
Seawater desalination equipment SDS series

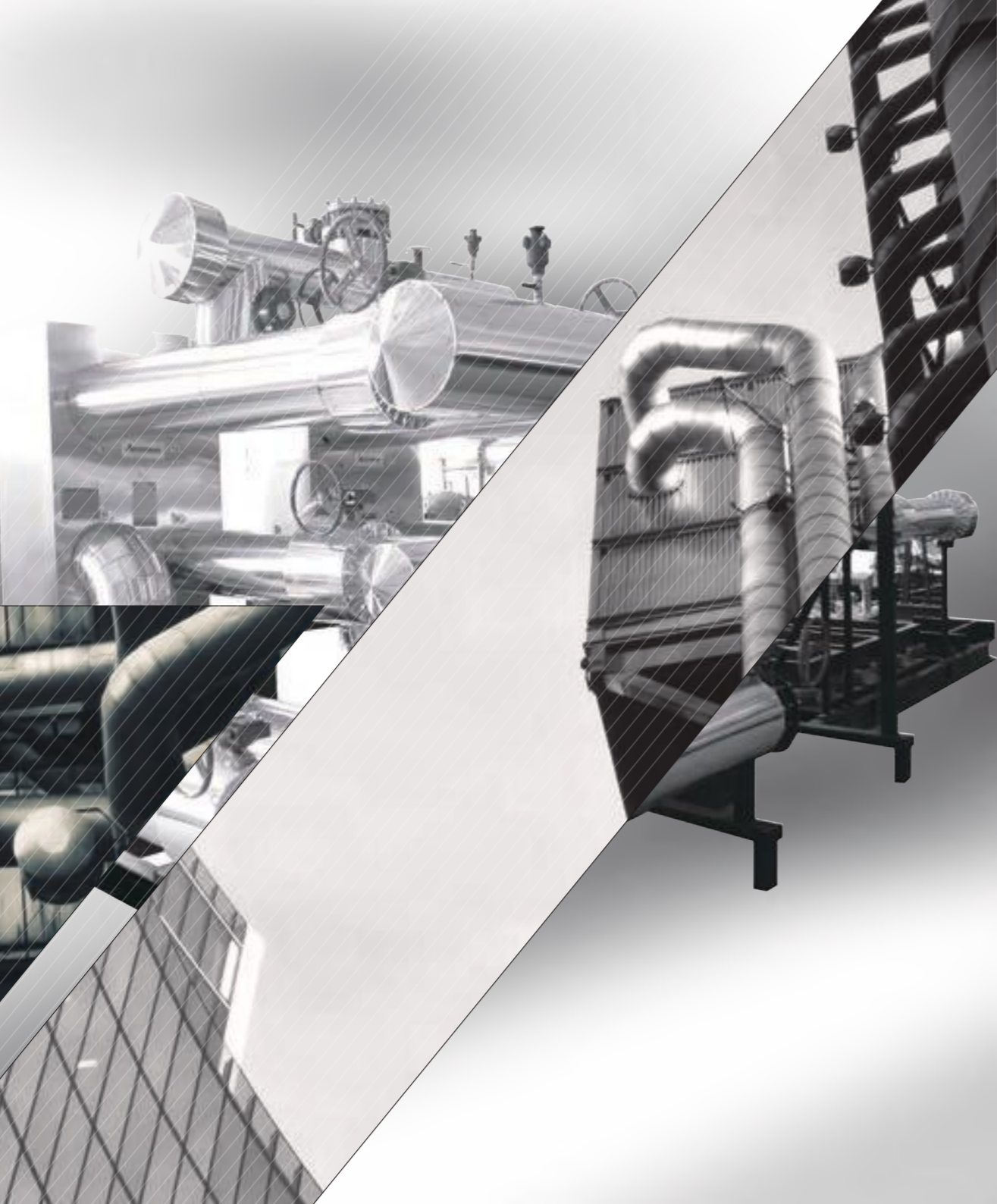
## 板式换热机组ABJ定制系列

Plate heat exchanger unit ABJ series

### 适用范围 / Scope of Application

集中供热、空调、生活热水、制冷、电力、工业工艺水冷却与加热等定制冷却系统。

Central heating, air conditioning, refrigeration, life hot water, power, industrial process cooling & heating, custom cooling system.



## INDUSTRIAL PRODUCT APPLY / 工业·产品·应用

ABJ系列换热机组是集成了板式换热器、循环泵、补水泵、温度计、压力表、各种传感器、管路和阀门及工控于一体的成套区域供热控制设备，并加装了补水系统、定压系统、水处理系统、变频流量控制系统、热量计及网络通讯控制系统，以期实现不同档次的控制功能配置需求；结合Accessen公司领先的技术以及丰富的经验和站在行业的前沿的高度选配机组的配件，如水泵，阀门及工控等工作，统筹兼顾，为用户量身定做更适合用户工况的性能优良的成套换热机组。机组包括工控在内，机组整机出厂，出厂前做冷态运行，用户只需现场安装四到五根管线和一根电源线到机组的电控箱，大大减少了用户现场的工作量和用户的工程费用，并极大地缩短了用户的工期。

ABJ series heat exchanger unit is integrated with the plate heat exchanger, circulating pump, water supply pump, thermometer, pressure gauge, all kinds of sensor, pipeline, valve etc in one complete set of heating control equipment, and also installation of the water supply system, the constant pressure system, water treatment system, variable flow control system, heat meter and network communications control system, with a view to achieving different grades of control function deployment requirements; combined with Accessen's leading technology and rich

experience and the unit spare parts which stand in the forefront of the industry, such as pumps, valves and industrial work, offer more suitable heat exchanger unit for users. Unit comprises an industrial control, unit machine factory, do cold running before factory, users only need to do on-site installation four to five line and a power line to unit's electric control box, greatly reducing the on-site workload and user's project cost, and project period.

### Characteristic / 特点

专业化的系统设计。  
Professional system design.

紧凑的结构设计，节省了占地面积及基建费用。  
Compact structure, saving installation area and basic construction costs.

智能化设计，人机界面无人值守、远程监控。  
Intelligent design, man-machine interface without man, remote monitoring.

丰富的运行经验。  
Rich operation experience.

可靠的元器件的选配。  
Reliable components matching.

专业可靠的服务团队，快速反映和终身保修。  
Reliable and professional service team, rapid response and lifetime warranty.

专业培训让操作人员可熟练掌握。  
Professional training, operator can skilled control.

### Main specifications / 主要规格

最大处理量  
Maximum processing capacity  
2500m<sup>3</sup>/h

最大设计压力  
Maximum design pressure  
25bar

最高耐温  
Maximum temperature  
150°C

板片材质  
Plate material  
AISI304、316...



## 板式换热机组PS标准系列

Plate Heat Exchanger Unit PS standard series

### 适用范围 / Scope of Application

工业配套、工艺、生活热水，标准供热模块等系统。  
Industrial facilities matching, processing and life hot water, standard heating module system.

## INDUSTRIAL PRODUCT APPLY / 工业·产品·应用

PS系列换热机组是在ABJ定制机组上的标准化产品，所有技术和加工制造工艺达到一个稳定高效的生产质量控制过程，其产品的品质和性能质量的稳定性与传统ABJ系列机组相比更高，特别使用于一些工业场合，对精度和可靠性高的场合。Accessen结合了领先的技术和丰富的经验，选择了高可靠性的产品配件。机组全部采用远程监控与就地相结合，并可在Accessen防控中心进行托管，防控中心进行实施监控，同时提供预防性维护和定期保养服务。与ABJ定制机组出厂前做冷态运行相比，PS系列做到每台机组进行全性能试验，确保可靠性。

The PS series heat exchanger unit is the standardization of products on basis of ABJ unit, all technical and manufacturing process to achieve a stable and efficient production and quality control process, compared with traditional ABJ series unit it with higher quality of products and stability of performance quality, especially in the use of industries, which have high requirements in the precision and reliability occasion. Accessen combines the leading

technology and rich experience, choose the high reliability accessories. All units using remote monitoring and on-site combined, and could be trusteeship in Accessen control center, do monitoring in control center, provide preventive and regular maintenance service at the same time. ABJ unit need to do cold running before factory, PS series need to do full performance test, ensure reliability.

### Characteristic / 特点

更专业化的系统设计。  
More specialized system design.

工业化的结构优化设计，占地最小。  
Industrial structure optimization design, occupies area minimal.

智能化设计，人机界面无人值守、远程监控。  
Intelligent design, man-machine interface without man, remote monitoring.

丰富的运行经验，更节能运行策略。  
Rich operating experience, more energy-saving operation strategy.

高可靠的元器件的选配。  
High reliable components matching.

更专业可靠的服务团队终身保修。  
A more reliable and professional service team, lifetime warranty.

全性能出厂试验。  
Full performance test.

机组运行服务托管。  
Unit operation service trusteeship.

### Main specifications / 主要规格

最大处理量  
Maximum processing capacity

100m<sup>3</sup>/h

最大设计压力  
Maximum design pressure

16bar

最高耐温  
Maximum temperature

150°C

板片材质  
Plate material

AISI304、316...



板式换热机组PS标准系列  
Plate Heat Exchanger Unit PS standard series

## 艾克森工业产品应用

### Application of Accessen industrial products



专业化分工随着时代的进步而来，我们专注于换热设备的研究和开发，为客户创造更多价值。将科技最前沿的技术融入到我们的设计和产品中，加速行业进步和技术变革，让更多的用户得到适合自己需求的解决方案，更注重可持续长远发展和伙伴的长期关系。

在不同行业产品应用中，艾克森在各行业中有着丰富的应用经验，能为你提供安全可靠的换热解决方案。

Specialized division of labor follow the development of the times, we focus on the research and development of heat exchange, create more value for customers. Integrating the latest technology into our design and product, accelerate the industry progress and technological change, so that more users get suitable solutions, pay more attention to sustainable development and the long-term partnership relationship.

In different industry product application, Accessen has a rich experience in variety of industries, can provide a safe and reliable heat transfer solution for you.



## 重庆化医集团--巴斯夫MDI一体化项目 之25万吨/年天然气制乙炔装置

重庆MDI一体化项目是世界最著名的化工巨头德国巴斯夫和重庆化医集团（重庆捷圆化工）共同投资建设的西南地区最大的重化工生产基地，采用一体化循环经济模式，上、中、下游产业链一体化、物流一体化、基础设施一体化、公共设施一体化、环保处理一体化大型化工项目。总投资450亿元人民币，共17套装置，包括（40万吨/MDI联合装置、25万吨/年天然气制乙炔装置、10万吨/年丁二醇装置、32万吨/年聚氯乙烯装置、4万吨/年氯丁橡胶装置、65万吨/年醋酸装置、20万吨/年合成氨装置、45万吨/年稀硝酸装置、80万吨/甲醇装置、40万吨/年甲醛装置、32万吨/年氯碱装置、制氧空分装置、合成气分离装置、10万吨醋酸乙酯装置、5万吨/年聚乙烯醇装置、热电厂装置、公用工程装置。该项目由惠生工程（中国）有限公司与韩国大林工程公司组成的联合体进行EPsCm（设计、采购服务、施工管理）服务，创造了40万吨/MDI联合装置、25万吨/年天然气制乙炔装置、石油化工和天然气结合度、资源综合利用4项世界第一。

由于国内乙炔装置基本是煤制乙炔，板式换热器在国内天然气制乙炔行业核心工艺段运用尚属首例，Accessen 做为按需应变的换热解决方案提供商，在与重庆MDI一体化项目组、设计院、工程总包等各方经过多次技术交流和方案探讨后，共同对换热器的参数方案进行了优化，在最终进行工厂考察中，多方面达成共识对艾克森的公司规模，产品品质和质量控制，客户服务深感满意和信赖，并承诺在后续化医集团与巴斯夫的MDI一体化项目中优先考虑使用艾克森产品。本项目艾克森提供了52台板式换热器用于25万吨/年天然气制乙炔装置，用于核心工艺领域裂解气生成及冷却、裂解气压缩、乙炔提浓及溶剂再生、溶剂处理等工序，而这个工艺传统上一直由国外其他品牌垄断，艾克森产品进入这个领域替代其他品牌的进口产品，提供了性能可靠更经济优化解决方案，对整个化工领域换热器行业应用具有深远意义。

MDI是一种应用广泛的化工产品，作为聚氨酯（PU）的主要原料，主要用于生产PU浆料、PU鞋底原液、聚氨酯硬泡、半硬泡等，广泛应用于冰箱、保温材料、汽车及建筑等行业。

重庆化医控股(集团)公司是重庆市政府出资组建，2000年8月成立的国有独资公司，集团现拥有独资、控股、参股子公司33户，员工近3万人。2011年集团总资产390亿元，销售收入391亿元。集团现主要涉及化工、医药、盐业共18个生产和销售领域，拥有国家级企业技术中心1个，市级企业技术中心9个。下属重庆捷圆化工有限责任公司为重庆化医集团控股的国有大型化工企业。公司前身为长寿化工总厂，始建于1939年10月（国民政府第26兵工厂），是我国第一家合成橡胶生产企业。公司地处重庆（长寿）化工园区内，占地105万平方米。有化工生产装置20余套，生产有机、无机、原料药三大类，氯碱、氯酸盐、工业磺胺、氯丁橡胶四大系列30余种产品。其中氯丁橡胶、氨苯磺胺、高氯酸钾是目前国内最大的生产基地。

巴斯夫（BASF）是全球最大的化工公司，被美国商业杂志《财富》评为“全球最受赞赏化工公司”；巴斯夫总部设在路德维希港，在39个国家设有350多个分厂和公司。2011年，巴斯夫的销售收入达735亿欧元（约970亿美元），在全球拥有超过111,000名员工。公司业务涉及：化学品及塑料、天然气、植保剂和医药等，保健及营养，染料及整理剂，化学品，塑料及纤维，石油及天然气。巴斯夫别具特色的一体化基地（即德语中的“Verbund”）是公司的优势所在，它使巴斯夫实现了低成本优势，从而保证了极大竞争优势。以乙烯裂解为龙头，带出一系列产品，第一个项目的产品就是第二项的原料，以此一体化发展。目前，巴斯夫已有6个一体化基地，分别在位于欧洲的德维希港总部和安特卫普，北美的自由港、盖斯马，以及位于亚洲的关丹和南京（扬子石化巴斯夫项目）。



重庆化医集团--巴斯夫MDI一体化项目

惠生工程是业内领先的石油化工、煤化工及炼油装置工程服务商，向客户提供石油化工、煤化工及炼油装置工程项目的咨询、设计、采购、施工管理及工程总承包、项目管理、培训开车及生产运营的一体化全过程服务。惠生工程持有国家甲级资质证书，并拥有众多国内外石油化工、煤化工及炼油装置的优秀人才和专家，可采用PC（设计-采购-施工总承包）、EM+PC（设计管理-采购-施工总承包）、EP（设计-采购总承包）、PC（采购、施工总承包）、PMC（项目管理承包）等多种项目管理模式承接大型化工工程装置的建设和管理，并提供相应的技术服务。

### H 机械制造 Machinery Manufacturing



- 1 上海临港电器
- 2 卡特彼勒
- 3 多配丝（天津）工具有限公司
- 4 湖州哈特贝尔精密锻造有限公司
- 5 青岛中集集装箱制造有限公司
- 6 GE能源



### I 船舶动力海水淡化 Marine Desalination



- 1 天津中交博迈科海洋船舶重工有限公司
- 2 首钢
- 3 ACORN
- 4 振华重工
- 5 马尾船厂
- 6 法国-卡塔尔海水淡化
- 7 洋马发动机（上海）有限公司

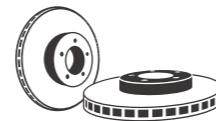


J

汽车零部件  
Car Part Retailers



- 1 东洋轮胎
- 2 博世(无锡)
- 3 上海商用大飞机制造研发中心项目
- 4 长春一汽四环发动机制造有限公司



K

电力能源核电  
Electric and Nuclear Power



- 1 山东海阳核电
- 2 中电电建
- 3 丹东金山电厂
- 4 大唐灞桥发电厂2×600MW机组
- 5 长春热电厂

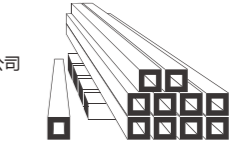


L

钢铁冶金有色金属  
Ferrous and Non-ferrous Metals



- 1 莱钢炼铁厂
- 2 上海宝钢化工有限公司
- 3 北京首钢国际工程技术有限公司
- 4 武汉钢铁集团
- 5 吉恩镍业



M

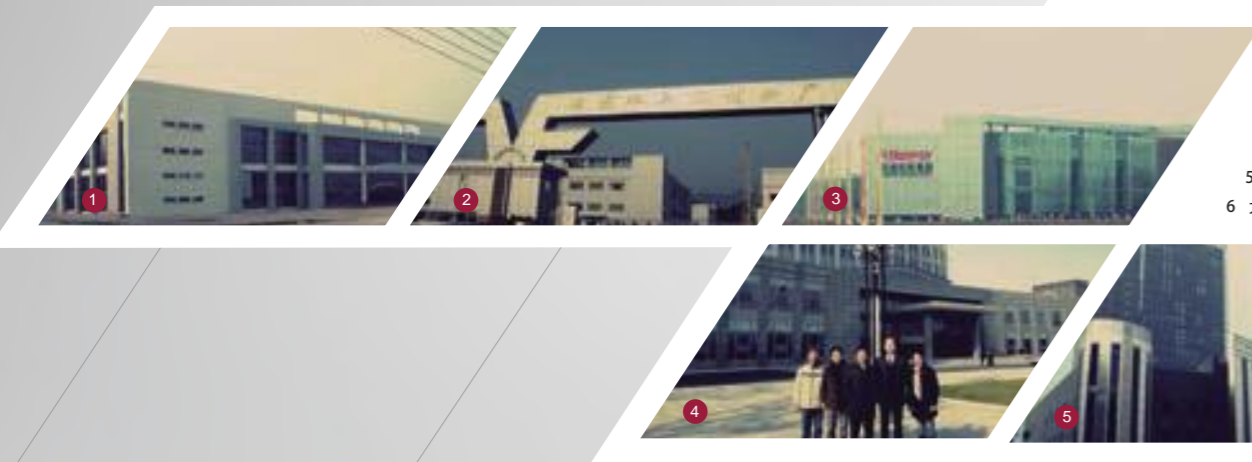
润滑设备  
Lubrication Equipment



- 1 西安陕鼓动力股份有限公司
- 2 启东润滑设备有限公司
- 3 上海润滑设备厂
- 4 博世力士乐(常州)有限公司
- 5 成都发动机集团



**N** 光伏新能源  
Photovoltaic



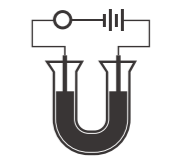
- 1 晶澳太阳能
- 2 四川峨眉半导体材料厂
- 3 四川汉能光伏有限公司
- 4 协鑫光伏科技有限公司
- 5 英利能源(中国)有限公司
- 6 大全集团



**P** 无机化工/氯碱化工  
Chlorine and Alkali Chemicals



- 1 中国成达工程公司
- 2 青岛碱液股份有限公司
- 3 山东海化集团有限公司
- 4 上海天原集团华胜化工有限公司
- 5 新疆中泰

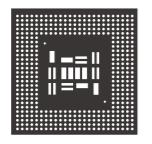


**Q** 石油化工  
Petrochemicals



- 1 中石化南京
- 2 科宁化工(中国)有限公司
- 3 Pak-American Fertilizers Limited
- 4 阿克苏诺贝尔化学品(宁波)有限公司

**O** 电子半导体  
Semoconductors



- 1 松下能源有限公司
- 2 西门子
- 3 石家庄旭新光电有限公司
- 4 中电熊猫电子液晶面板项目
- 5 富士康

R

食品饮料  
Food and Beverage



- 1 伊利工业园
- 2 南通常海添加剂
- 3 中粮内蒙可口可乐有限公司
- 4 上海百事可乐
- 5 中粮集团



S

医药生物/生命科学  
Medicine and Biology



- 1 拜尔医药
- 2 上海联合利华有限公司
- 3 天津天狮生命源有限公司
- 4 浙江康恩贝制药
- 5 伦敦杜蕾斯(青岛)有限公司
- 6 联邦制药



T

煤化工  
Coal Chemical Industry



- 1 大同煤矿集团
- 2 成都五环新锐
- 3 陕西陕化煤化工
- 4 成都五环新锐
- 5 山西阳新能股份



U

造纸纺织废热回收  
Papermaking and Textile Waste Heat Recovery



- 1 Far Eastern New Century Corporation
- 2 东华公司
- 3 福建金纶高纤维
- 4 浙江东华聚酯工程





V 玻璃水泥基础材料  
Glass and Cement Base Materials



- 1 成都特种玻璃生产线
- 2 中国中材国际
- 3 沙特SPCC二期日产5000吨水泥生产线
- 4 沙特RCC10000吨生产线



W 有机化工/精细化工  
Organic Chemicals



- 1 柯达集团
- 2 甫田赛得利
- 3 石家庄杰克化工
- 4 江苏长春化工有限公司



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