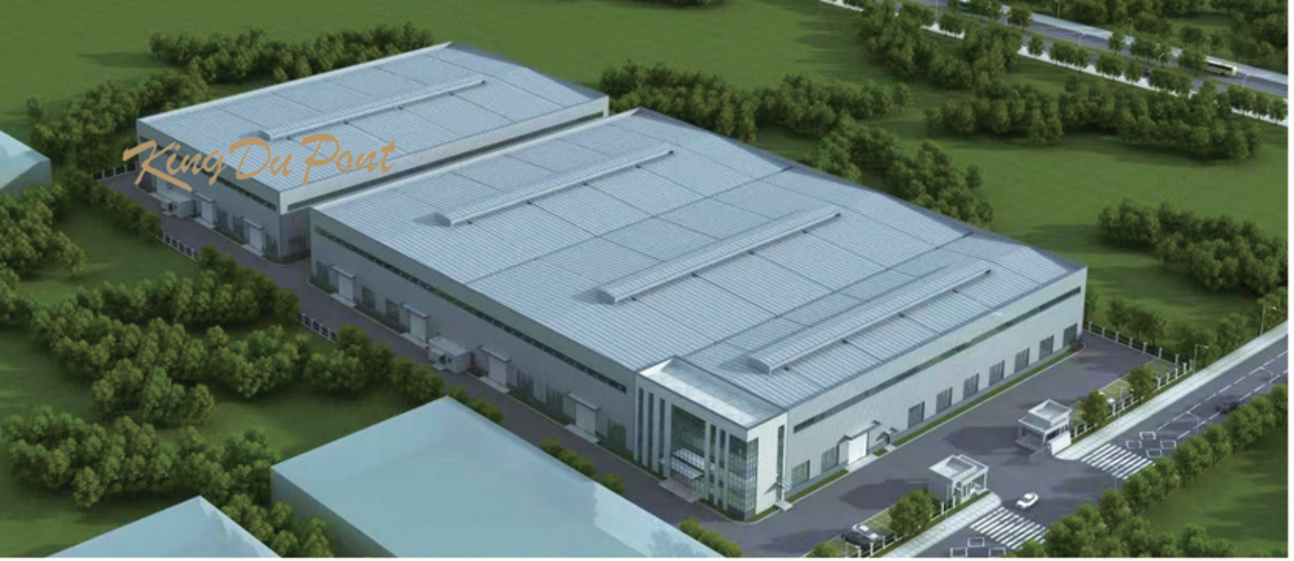
KINGDUPONT
EQUIPMENT
MANUFACTURING


**金多邦成套机械设备（江苏）有限公司**
**KDP MACHINERY (JiangSu)Co.,Ltd.**
地址：江苏省江阴市徐霞客镇峭岐中山路198号
ADD : No.198 Zhongshan Road, Qiaoqi, Xuxiake Town,
Jiangyin City, Jiangsu, China
网址·WEB : http://www.kingdupont.com


King Du Pont

# PLATE-SHELL板壳式换热器
# HEAT EXCHANGER

金多邦成套机械设备（江苏）有限公司
KDP MECHANICAL（JIANGSU）CO.,LTD.




## 关于我们/ABOUT US

KDP公司自成立以来一直刻苦努力，发奋图强，现已成为全球板式换热器行业的领导者。

KDP公司通过与世界专业科研机构强强联手生产的AK、AR、HBR系列板式换热器产品广泛应用于石油、钢铁、化工、电力、食品饮料、暖通空调、造船等行业，产品以优质高效的品质获得了客户广泛好评。

金多邦成套机械设备（江苏）有限公司现设备有12000吨板片油压机1台，5000吨板片油压机1台，2500吨板片油压机1台，在国内处于领先地位。基于KDP集团强大的技术后援，金多邦成套机械设备（江苏）有限公司将继续保持核心技术的领先地位，将最佳的产品回馈给客户。感谢新老客户继续不断的支持和鼓励。





King DuPont Company has been working hard since its inception and hasbecome a global leader in the plate heat exchanger industry.

King DuPont Company's AK, AR, HBR series of plate heat exchangers, which are jointly produced by professional research institutes around the world, are widely used in petroleum, steel, chemical, electric power, food and beverage, HVAC, ship building and other industries. Efficient quality has been well received by customers.

King DuPont Machinery ( JiangSu ) Co.,Ltd. has one set 12,000 ton plate hydraulic press, one set 5,000 ton plate hydraulic press and one set 2,500 ton plate hydraulic press, which is in the leading position in China.

Based on the strong technical support ofKDP Group, KDP Machinery( JiangSu ) Co.,Ltd. will continue to maintain its leading position in core technology and return the best products to customers.

Thanks to the new and old customers for their continued support and encouragement.

## 设备/EQUIPMENT


液压机
HYDRAULIC PRESS

焊接机
WELDING MACHINE

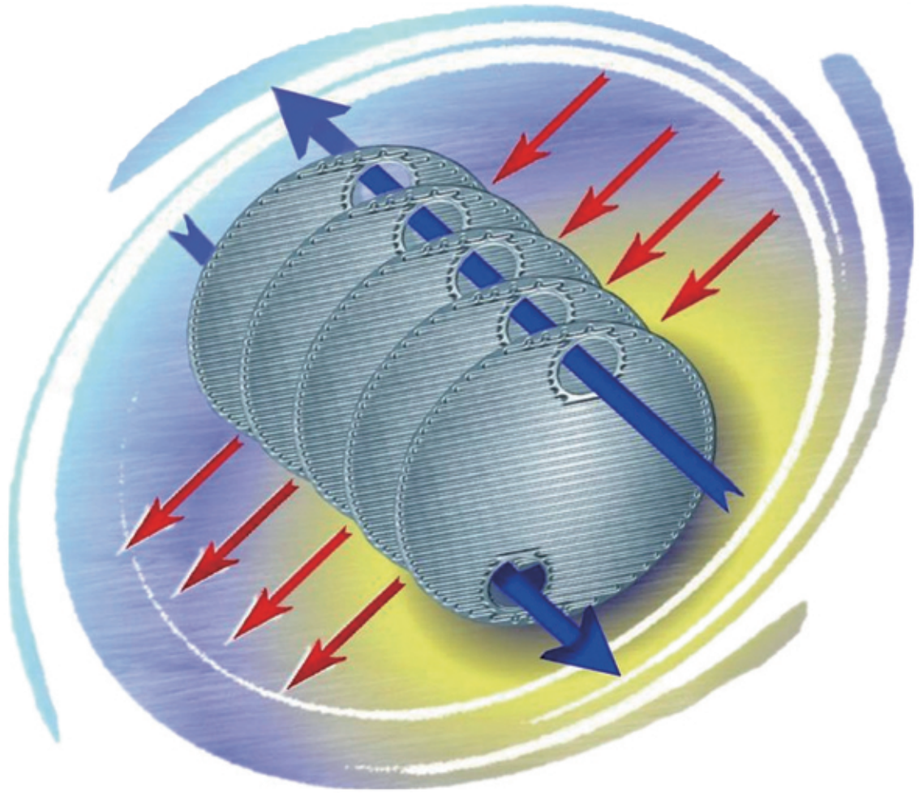
切片机
CUTTING MACHINE

仓库
WAREHOUSE





## 工作原理/ WORKING PRINCIPLE



板壳式换热器是由等离子弧焊接的波纹板组放入壳体，代替原壳管式换热器的换热管以波纹板组作为传热元件的换热器，两种流体介质分别流经板程和壳程达到热交换的目的流体流经波纹板片时可在逆流方向产生高度紊流，大大提高了换热效率。

Plate and shell heat exchanger is a plasma arc welded corrugated plate group into the shell, replacing the original shell and tube heat exchanger heat exchanger with corrugated plate group as a heat transfer element, two fluid media flow through the plate and shell respectively to achieve the purpose of heat exchange, fluid flowing through the corrugated plate can produce a high degree of turbulence in the countercurrent direction, greatly improving the heat exchange efficiency.

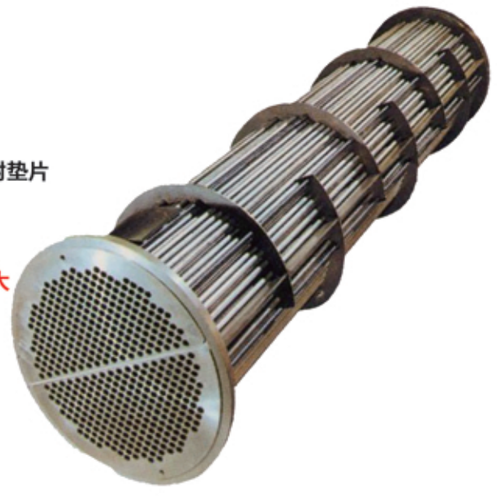
## OPTIMAL COMBINATION OF HEAT EXCHANGERS

- + COMPACTNESS + 紧凑
- + LESS STRUCTURE + 结垢小
- + SMALL TEMPERATURE DIFFERENCE + 小温差

- - LOW PRESSURE - 低压
- - LOW TEMPERATURE - 低温
- - RUBBER SEAL GASKET - 橡胶密封垫片

- + HIGH TEMPERATURE + 高温
- + HIGH PRESSURE + 高压
- + NO RUBBER SEALING GASKET + 无橡胶密封垫片

- - LARGE WEIGHT/VOLUME - 重量/体积大
- - SCALE-PRONE - 结垢高







## OPTIMAL COMBINATION OF HEAT EXCHANGERS

- + COMPACTNESS
- + LESS STRUCTURE
- + SMALL TEMPERATURE DIFFERENCE
- + 紧凑
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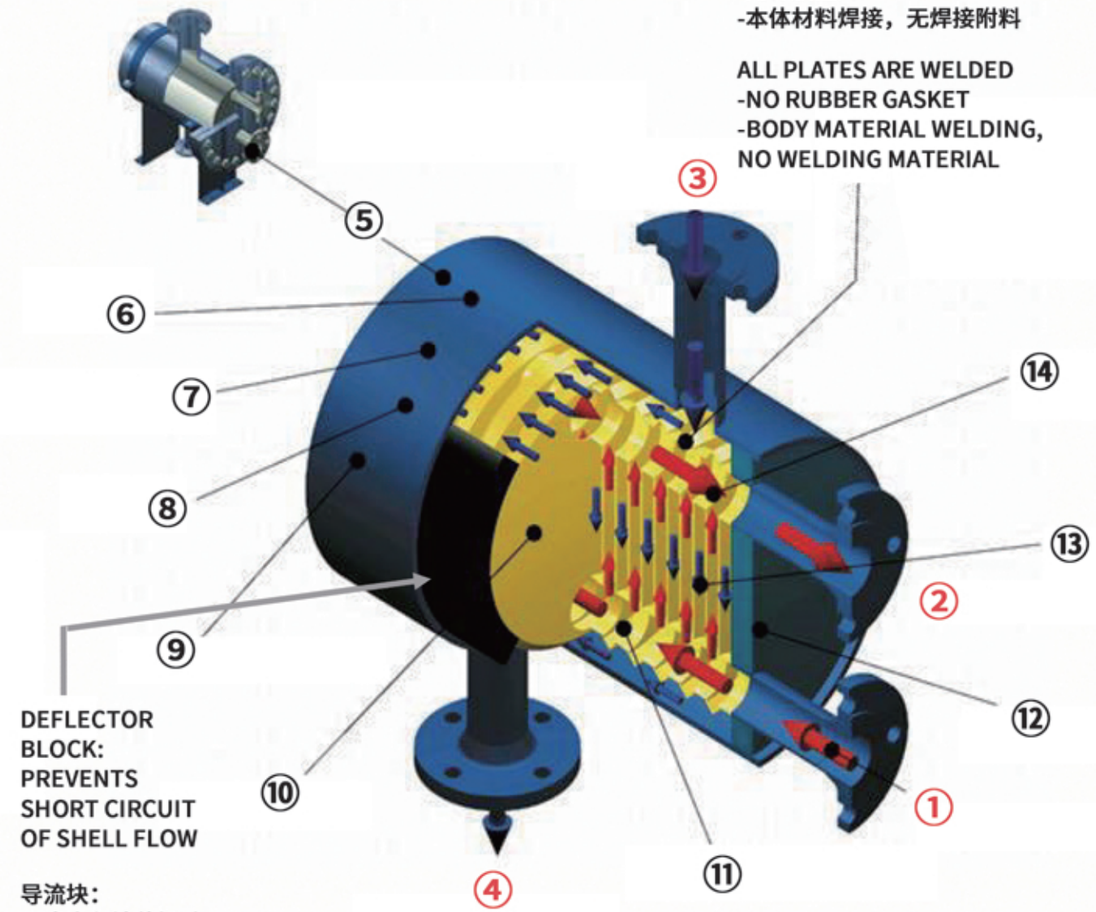
- + 小温差

- + HIGH TEMPERATURE
- + HIGH PRESSURE
- + NO RUBBER SEALING GASKET

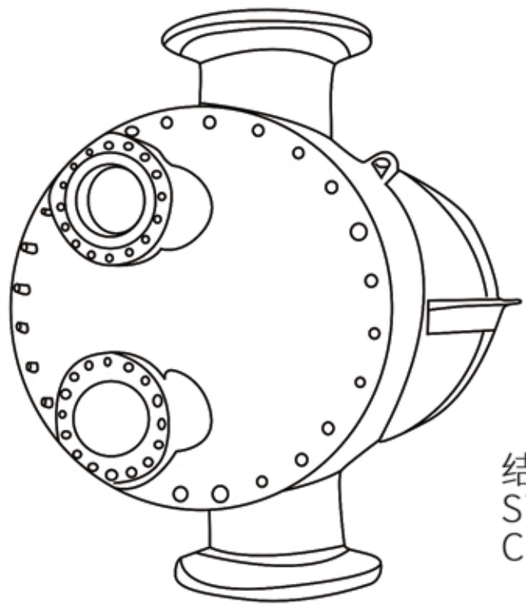
- + 高温
- + 高压
- + 无橡胶密封垫片

## 产品结构解析图
## PRODUCT STRUCTURE ANALYSIS DIAGRAM



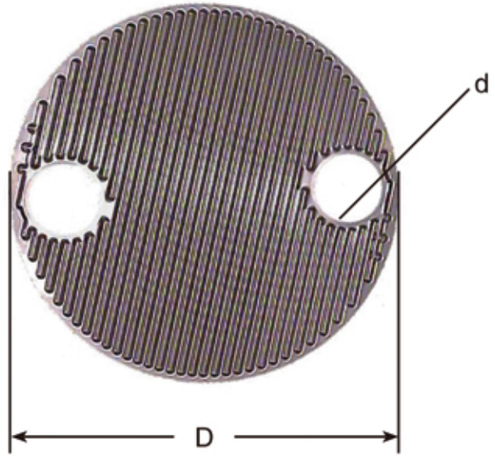

① 板程 流体进口
② 板程 流体出口
③ 壳程 流体进口
④ 壳程 流体出口
⑤ 全焊接或可拆型式
⑥ 低重量
⑦ 外壳保护结构
⑧ 耐高压
⑨ 低安装维护费用
⑩ 多流程逆流
⑪ 贵金属的有效利用
⑫ 高/低温度下操作
⑬ 紧凑
⑭ 抗结冰

① PLATE FLUID INLET
② PLATE FLUID OUTLET
③ SHELL FLUID INLET
④ SHELL FLUID OUTLET
⑤ FULL-WELDED OR DETACHABLE
⑥ UNDERWEIGHT
⑦ SHELL PROTECTION STRUCTURE
⑧ HIGH PRESSURE RESISTANCE
⑨ LOW INSTALLATION AND MAINTENANCE COSTS
⑩ MULTIFLOW COUNTERFLOW
⑪ EFFICIENT USE OF PRECIOUS METALS
⑫ OPERATE AT HIGH/LOW TEMPERATURES
⑬ COMPACTNESS
⑭ ANTI-ICING



## 结构特点
## STRUCTURAL CHARACTERISTICS

## 产品型号与规格
## PRODUCT SPECIFICATIONS AND MODELS




### 技术规格/TECHNICAL SPECIFICATION

标准设计压力 STANDARD DESIGN PRESSURE: 10 16 25 40 63BAR
最高设计压力 MAXIMUM DESIGN PRESSURE: 100BAR
设计温度 DESIGN TEMPERATURE: -196/700℃
最小传热温差 MINIMUM HEAT TRANSFER TEM: 2℃
板片厚度 SHEET THICKNESS: 0.8 1.0 1.2 1.5MM
板片材质 SHEET MATERIAL: 304 316L TI SMO504 904L ETC.
壳体材质 SHELL MATERIAL: Q345R 304 316L TI SMO504 904L etc.

| 前缀 PREFIX | 型号 MODEL | 板片直径 PLATE DIAMETER (MM) | 小孔直径 PORE DIAMETER (MM) | 板程标准接管法兰 PASS STANDARD NOZZLE FLANGE |
|---|---|---|---|---|
| XPS | 25 | 190 | 24 | 25 |
| XPS | 40 | 240 | 40 | 40 |
| XPS | 50 | 319 | 55 | 50 |
| XPS | 80 | 450 | 80 | 80 |
| XPS | 100 | 556 | 105 | 100 |
| XPS | 125 | 655 | 132.5 | 125 |
| XPS | 150 | 740 | 165 | 150 |
| XPS | 250 | 1000 | 250 | 250 |
| XPS | 300 | 1360 | 300 | 300 |



## 产品型号说明
## PRODUCT MODEL DESCRIPTION

表示金属板壳式换热器
Represents a metal plate shell heat exchanger

表示压力等级
Indicates pressure rating

表示换热量
Indicates heat transfer

**XPS 25-16-100/300KW-D/O**

表示板片型号
Indicates the plate type

表示板片数量
Indicates the number of boards

表示结构型式
D : 全焊式 O : 可拆式
Indicates structure type
D : full-welded type
O : detachable

## 氦气测试/HELIUM TEST

### 主要技术指标 MAIN TECHNICAL INDEX

最小可检漏率（真空模式）：5*10-12Pa $m^3/s$
DETECTABLE LEAK RATE(MIN)(VACUUM MODE)

最小可检漏率（吸枪模式）：1*10-8Pa $m^3/s$
DETECTABLE LEAK RATE(MIN)(SUCTION GUN MODE)

检漏口最大压力：1330Pa
LEAK PRESSURE(MAX)

粗抽能力：14.4$m^3/s$
ROUGHING CAPACITY

检漏口规格：DN25 ISO-KF
LEAK DETECTION PORT SPECIFICATIONS

启动时间：<2分钟/min
START-UP TIME

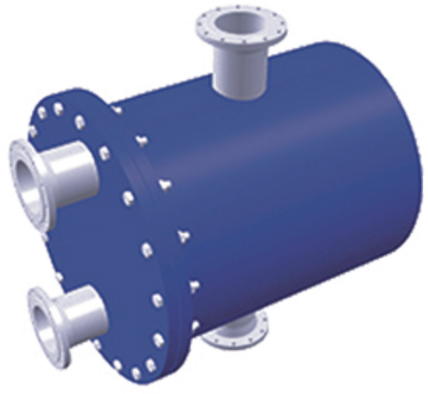
## 选用材料/SELECTION OF MATERIAL

### 板片材料/SHEET MATERIAL

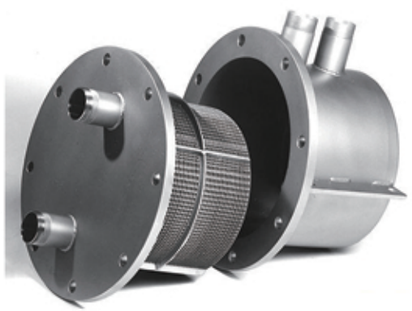
厚度/Thickness: 0.8-1.5mm
材料/Material:
- AISI 304
- AISI 316L
- Tianium
- Hastelloy
- SMO 254
- AISI 904
- Duplex 2205
- Nickel
- 或用户指定/Or user specified

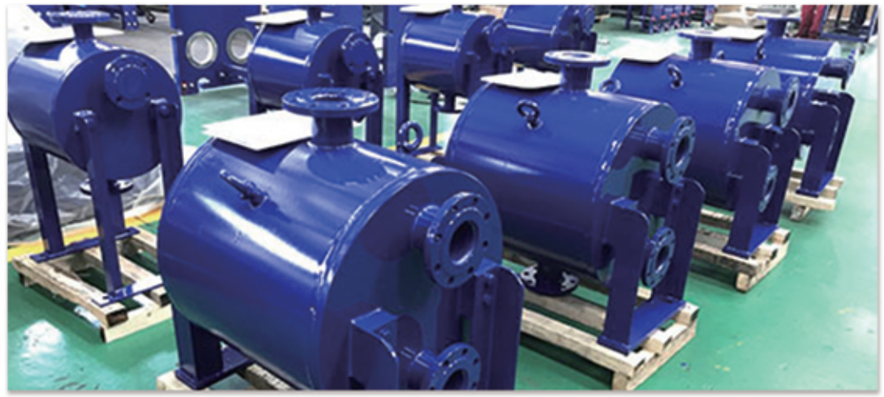
### 壳体材料/SHELL MATERIAL

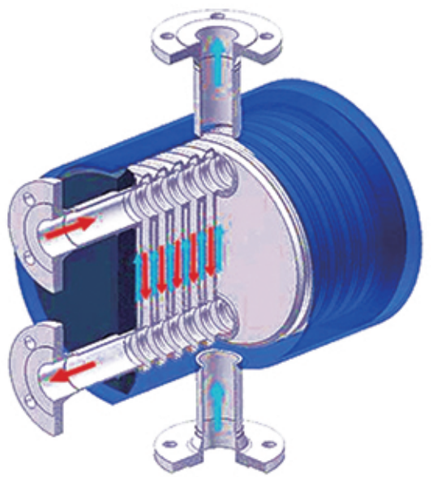
- 碳钢/Carbon steel
- AISI 304
- AISI 316L
- Tianium
- Hastelloy
- SMO 254
- AISI 904
- Duplex 2205



## 工厂实拍
## FACTORY SHOOTING







## 应用领域
## APPLICATION FIELD


■

用作引擎预热器润滑油冷却器、燃油预热器、截气中间冷却器、热油加热器、废热锅炉等

USED AS ENGINE PREHEATER LUBRICATING OIL COOLER, FUEL PREHEATER, GAS INTERCEPTING INTERCOOLER, HOT OIL HEATER, WASTE HEAT BOILER, ETC.


■

冷却化学过程的反应热、蒸汽加热、热回收、再生热交换等

USED AS REACTION HEAT FOR COOLING CHEMICAL PROCESSES, STEAM HEATING, HEAT RECOVERY, REGENERATIVE HEAT EXCHANGE, ETC.


■

蒸发器、冷凝器、油冷器、经济器、回热器等

USED AS EVAPORATOR, CONDENSER, OIL COOLER, ECONOMIZER, REGENERATOR, ETC.





## 应用领域
## APPLICATION FIELD


■

从废液中进行热回收、为连续浇板机提供冷却水、在焦油车间冷却氨液、电解液冷却，润滑油冷却等

HEAT RECOVERY FROM WASTE LIQUID, COOLING WATER FOR CONTINUOUS POURING MACHINE, COOLING AMMONIA LIQUID IN TAR WORKSHOP, ELECTROLYTIC LIQUID COOLING, LUBRICATING OIL COOLING, ETC.


■

加热原油去除沙子和水、从加工水中热回收、从干原油中热回收预热湿原油、用海水冷却热原油等

USE FOR HEATING CRUDE OIL TO REMOVE SAND AND WATER, HEAT RECOVERY FROM PROCESS WATER, HEAT RECOVERY FROM DRY CRUDE OIL TO PREHEAT WET CRUDE OIL, COOLING HOT CRUDE OIL WITH


■

工艺介质的加热（冷却）器等

PROCESS MEDIUM HEATING (COOLING) DEVICE, ETC.

## 应用领域
## APPLICATION FIELD


■

蒸汽冷凝器、油冷却器、给水预热器、燃油预热器、排气冷凝器、排气烁仓热回收等

USED AS STEAM CONDENSER, OIL COOLER, WATER PREHEATER, FUEL PREHEATER, EXHAUST CONDENSER, EXHAUST SHUO BIN HEAT RECOVERY, ETC.


■

热水加热纸浆、黑液冷却、从锅炉排气中回收热、脱墨排热过程中热回收等

HOT WATER HEATING PULP, BLACK LIQUID COOLING, HEAT RECOVERY FROM BOILER EXHAUST, HEAT RECOVERY IN DEINKING HEAT REMOVAL PROCESS,ETC.


■

脂肪酸脱臭预热（冷却）器、植物油冷却器、蒸汽加热器、生物油冷却器等

USED IN FATTY ACID DEODORIZATION PREHEATER (COOLER), VEGETABLE OIL COOLER, STEAM HEATER, BIOLOGICAL OIL COOLER, ETC





## 公司资质
## COMPANY QUALIFICATION