枫源集团
FENG YUAN GROUP

SHENGYUAN
INTELLIGENT TECHNOLOGY
盛源智能科技

THE PERFECT COMBINATION OF ENERGY SAVING AND CRAFTSMANSHIP
节能与工艺的完美结合

PROFESSIONAL MANUFACTURER
OF INTELLIGENT TEMPERATURE CONTROL SYSTEM
专业智能温度控制系统制造商

技术先进　操作方便　质量保障

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佛山市盛源智能科技有限公司
FOSHAN SHENGYUAN INTELLIGENT TECHNOLOGY CO., LTD.

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枫源集团宣传视频

COMPANY PROFILE
公司简介

佛山市盛源智能科技有限公司成立于 2015 年，座落于工业高度发达的广东省佛山市南海区和顺和桂工业园内。专业专注于瓦楞包装行业的智能温控系统、闭式回收机、低氮高效的“变频贯流蒸汽机”、“B 级锅炉”及“D 级锅炉”等瓦楞设备的自动化、智能化升级与改造。

公司自创办以来，一直秉承国际高水平和高品质服务宗旨，铸就现今行业品牌地位，产品遍布全国各地。目前拥有一批在瓦楞设备、智能科技方面的优秀专业人才，拥有业内最好的产品及最前沿技术。并将持续保持创新、严谨、卓越、细致的心态，立足中国，放眼全球，立志为客户提供更好的智能温度控制系统和周到的服务。

Foshan Shengyuan Intelligent Technology Co., Ltd. was established in 2015, located in the highly industrially developed Nanhai District, Foshan City, Guangdong Province, Heshun and Gui Industrial Park. Specializing in the automation, intelligent upgrading and transformation of corrugated equipment such as intelligent temperature control system, closed recycling machine, low-nitrogen and efficient "frequency conversion through steam engine", "B-class boiler" and "D-class boiler".

Since its inception, the company has been adhering to the international high-level and high-quality service tenet, and has created the current brand status in the industry, with products all over the country. At present, it has a group of outstanding professionals in corrugated equipment, intelligent technology, and has the best products and cutting-edge technology in the industry. And will continue to maintain an innovative, rigorous, excellent, and meticulous mentality, based in China, looking at the world, and determined to provide customers with better intelligent temperature control systems and thoughtful services.

5000m^2+ 标准生产厂房

100位+ 企业人才

8年 专业专注行业经验

WHOLE LINE TEMPERATURE CONTROL
整线温控机型配置

标准配置
The standard configuration

1. 热板三段式控制 + 二次蒸汽利用 + 多重缸控制 + 单面机智能控制
2. 德国西门子控制系统
3. 高精度进汽比例阀、二次汽水分离罐、高精度温度、压力变送传感器
4. 控温稳定，升压迅速，快速排水
5. 热板蒸汽及单面机蒸汽就近二次利用，节省能源损耗
6. 热板、单面机触摸屏独立，单独控制方便查看控制
7. 生管连接，自动切换配方
8. 可选配西门子控制系统 + 远程检测检修模块
9. 可选配热板 RTK 比例阀进汽

1. Hot plate three-stage control + secondary steam utilization + multi-cylinder control + single-side machine intelligent control
2. German Siemens control system
3. High-precision steam inlet proportional valve, secondary steam-water separation tank, high-precision temperature and pressure transmission sensor
4. Stable temperature control, rapid pressure rise, and rapid drainage
5. The hot plate steam and the single-sided machine steam are reused nearby to save energy consumption
6. The hot plate and single-sided machine have independent touch screens, and they can be controlled separately for easy viewing and control.
7. The production tube is connected, and the formula is automatically switched
8. Optional Siemens control system + remote inspection and maintenance module
9. Optional hot plate RTK proportional valve for steam intake

FUNCTION 作用

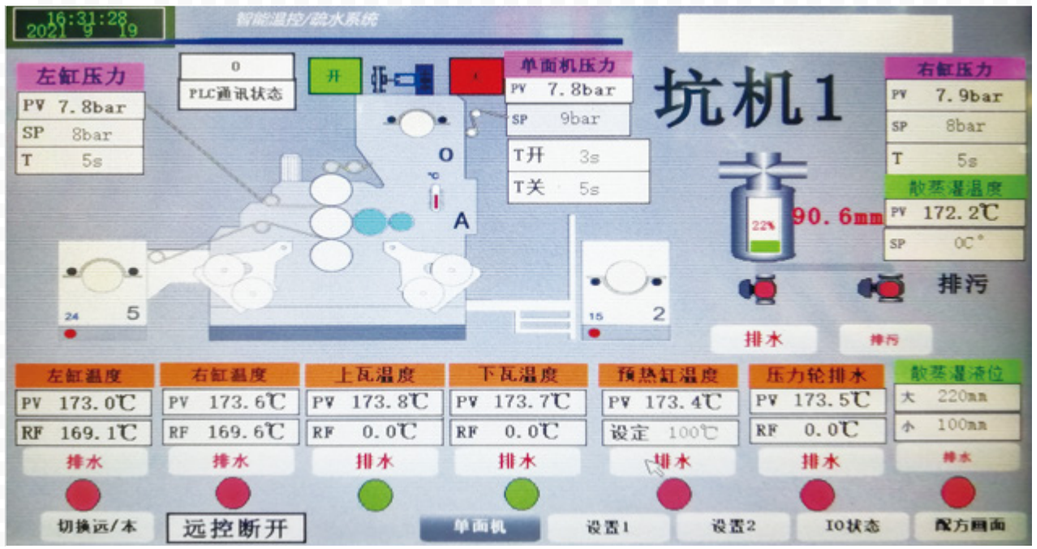
在完全没有使用传统的疏水阀情况下，多点式温控系统解决方案，采用国际先进的设计理念，按照国际生产标准，单面机、双面机蒸汽二次利用，再用温度传感器排放，可保持蒸汽在同等压力下加快流速，从而保持瓦线温度的稳定性和可控性。

整体可连接生管自动运行，可以配合不同的纸板生产工艺进行压力，温度控制，从而降低能耗，一般节能为 10%-25%，能耗较大的生产线为 30%，使用节能温控系统可减少上胶量，有效提高纸板的平整度和粘合强度。

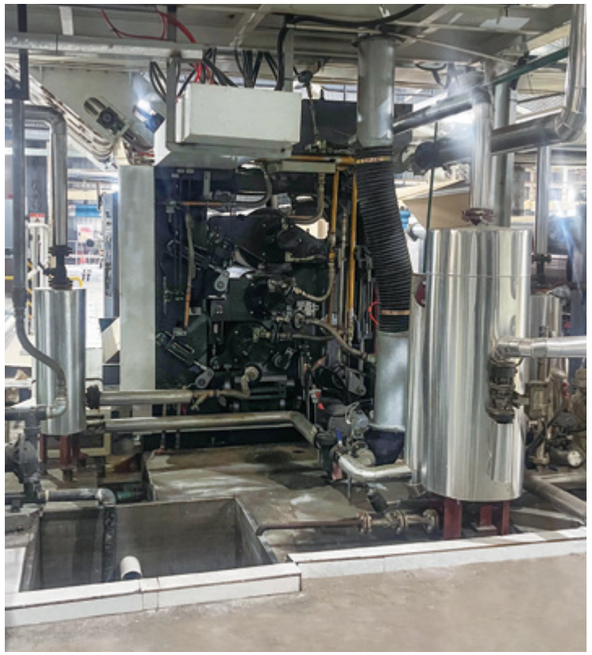
Without the use of traditional traps, the multi-point temperature control system solution adopts international advanced design concepts, and in accordance with international production standards, single-sided and double-sided steam is used for secondary use, and then discharged by temperature sensors. It can keep the steam at the same pressure to speed up the flow rate, so as to maintain the stability and controllability of the tile wire temperature.

The whole can be connected to the production line to automatically run, and can be used with different cardboard production processes for pressure and temperature control, thereby reducing energy consumption. Generally, the energy saving is 10%-25%, and the production line with larger energy consumption is 30%. Use an energy-saving temperature control system It can reduce the amount of glue and effectively improve the flatness and bonding strength of the cardboard.

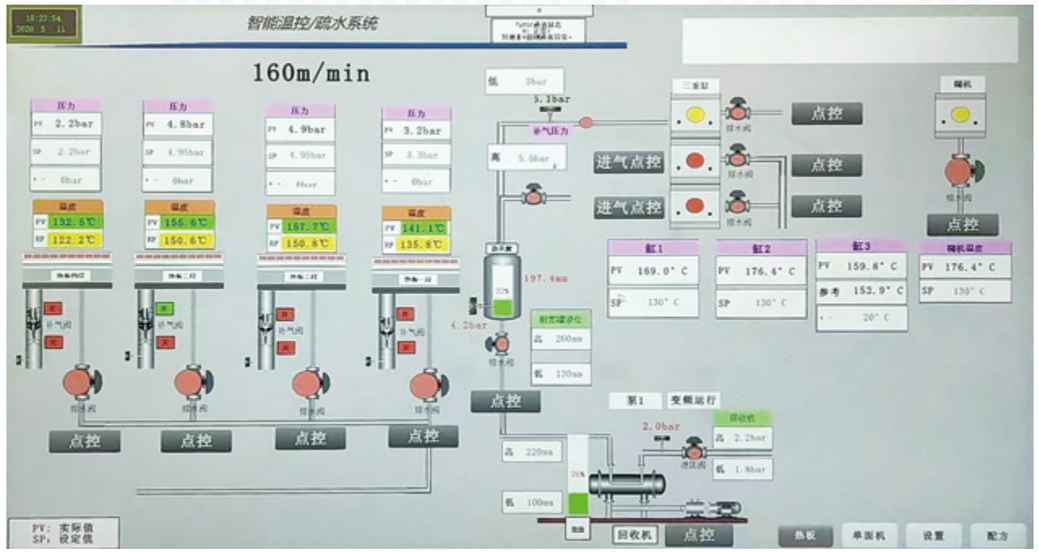
SINGLE FACER INTERFACE 1
单面机坑机界面 1



SINGLE FACER DIAGRAM
单面机图



HOT PLATE & SINGLE FACER INTERFACE
热板坑机界面



HOT PLATE
热板

HORIZONTAL STEAM BOILER
卧式蒸汽锅炉

安全性提高，在原来蒸汽锅炉的四水位上基础上增加第五水位检测；全自动运行，减少人员劳动强度；经典的锅壳式全湿背顺流三回程结构，燃烧热负荷低，有害物质 NOx 减少；排烟温度低至 95°C；热效率 95%-96%；NOx 小于 30、50、150mg/m^3。

Safety is improved, and the fifth water level detection is added on the basis of the four water levels of the original steam boiler; fully automatic operation, reducing the labor intensity of personnel; the classic pot shell type full wet back downstream three-way structure, the combustion heat load is low, the harmful substanceS NOx is reduced; the exhaust smoke temperature is as low as 95 ° C; the thermal efficiency is 95%-96%; the NOx is less than 30, 50, 150mg/m^3.

VARIABLE FREQUENCY THROUGH-FLOW STEAM ENGINE
变频贯流蒸汽机

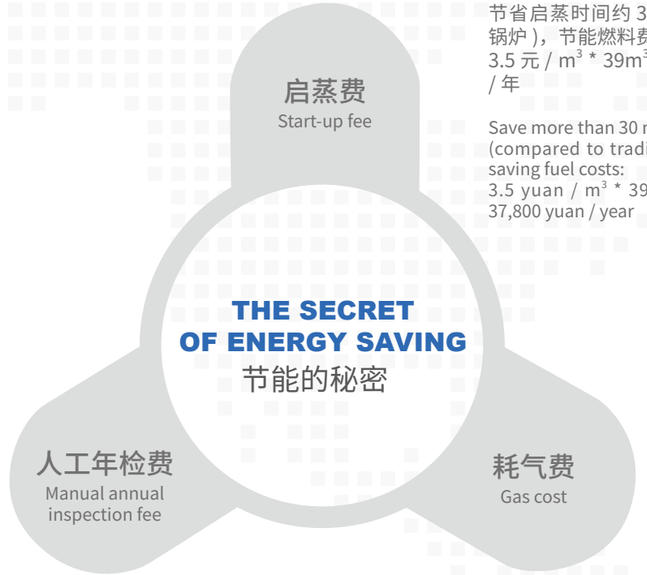
比传统锅炉节能 10%-30%；多重保护，杜绝爆炸风险；多台联控系统，故障支援功能兼有备用蒸汽机的功能、使用纯水制备蒸汽，永不结垢、NOx 小于 30mg/m^3。

Energy saving 10%-30% compared with traditional boilers; multiple protection, eliminate the risk of explosion; multiple joint control systems, fault support function and backup steam engine function, the use of pure water to prepare steam, never scale, NOx less than 30mg/m^3.

CROSS-FLOW GAS STEAM BOILER
贯流式燃气蒸汽锅炉

采用进口高安全性的零部件、99.5% 以上的高蒸汽干燥度、高耐腐蚀性的锅炉罐体、水管结垢预防报警技术 、真正做到远程通信服务、低排污率、NOx 小于 30、50、150mg/m^3。

Imported high safety parts, high steam dryness of more than 99.5%, high corrosion resistance boiler tank, water pipe fouling pre-Anti-alarm technology, truly remote communication services, low discharge rate, NOx less than 30, 50, 150mg/m^3.



节省启蒸时间约 30 分钟以上〈相对传统锅炉），节能燃料费用：
3.5 元 / m^3 * 39m^3*300 天 / 年 =37800 元 / 年

Save more than 30 minutes of steaming time (compared to traditional boilers), energy-saving fuel costs:
3.5 yuan / m^3 * 39m^3 * 300 days / year = 37,800 yuan / year

节省人工费用及年检收费（相对传统锅炉），减少环评及监管费用，每年减少费用预计 100000 元以上。

Save labor costs and annual inspection fees (compared to traditional boilers), reduce environmental impact assessment and supervision costs, and reduce costs by more than 100,000 yuan per year.

避免低负荷下的“大马拉小车（相对传统锅炉），节能燃料费用 :2880T/ 年 *(85-78)m^3/T*3.5 元 / m^3=70560 元 / 年

Avoid "big horse-drawn trolleys under low load (relative to traditional boilers), energy-saving fuel costs: 2880T/year*(85-78)m^3/T*3.5 yuan/ m^3=70560 yuan/year

INVERTER STEAM ENGINE VS TRADITIONAL BOILER
变频蒸汽机 VS 传统锅炉

水溶量		产气时间	
30L 免检	特种设备	2 分钟	30 分钟
炉体散热损失		燃烧控制方式	
0.5%—1%	2%—5%	燃气量调节 20%—100% 启停次数减少 50% 以上	三段火
排烟温度		占地面积	
<60 度	>120 度	<3 平方米	>12 平方米

INTELLIGENT-MULTI-UNIT CONTROL TECHNOLOGY
智能化的——多台联控技术

在发达国家或地区，如美国、欧洲、日本、韩国、台湾等，智能化管理及多台并联集中 (分散) 节能系统已经被 80% 的锅炉使用者采用。采用此技术可以使蒸汽系统的的燃料费用节约 20-30%，锅炉整体寿命延长 30-40%，管理成本大幅下降。

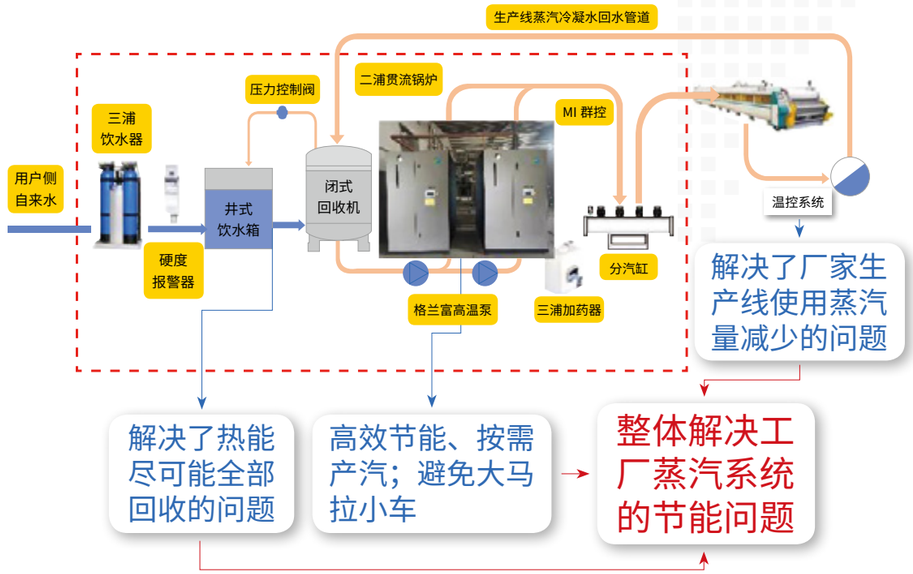
In developed countries or regions, such as the United States, Europe, Japan, South Korea, Taiwan, etc., intelligent management and multiple parallel centralized (decentralized) energy-saving systems have been adopted by 80% of boiler users. The use of this technology can save the fuel cost of the steam system by 20-30%, extend the life of the boiler by 30-40%, and greatly reduce the management cost.

SHENGYUAN'S CLOSED STEAM CONDENSATE RECOVERY SYSTEM HAS THE FOLLOWING ADVANTAGES:
盛源的闭式蒸汽凝结水回收的系统方案存在以下几个优势：

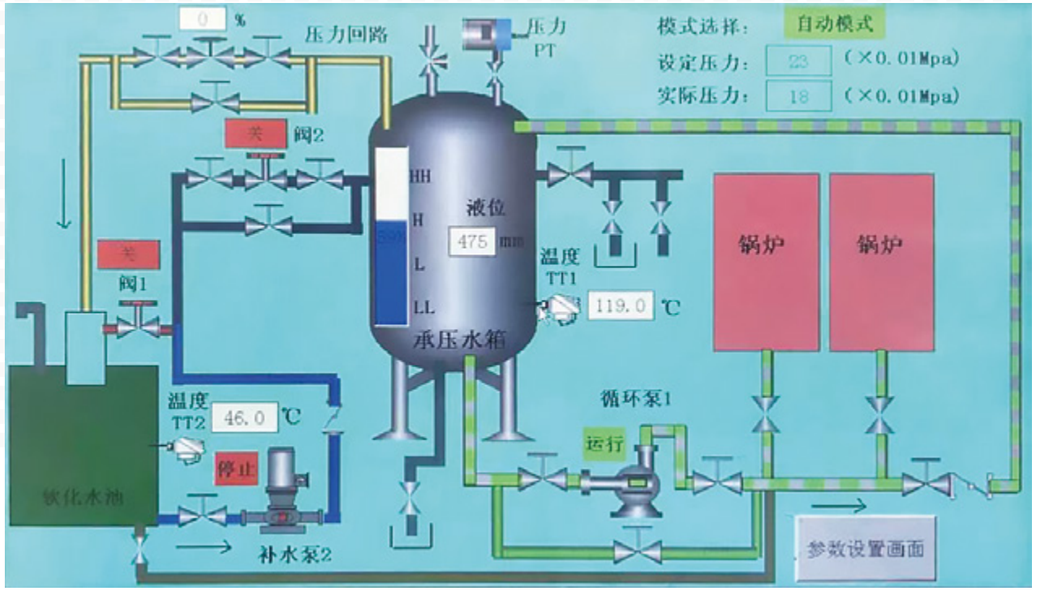
1、提供蒸汽系统的整体解决方案，从锅炉选型、回收系统的配置、运行管理、安装调试、售后管理，提供一系列的解决方案。
2、采用闭式冷凝水回收系统，随着锅炉进水温度的提高，锅炉的蒸汽生产量也相应提高。在 130 摄氏度的进水温度条件下，额定蒸汽出口压力在 0.8MPa 的前提下，4000kg/h 锅炉的蒸发量达到了 4800kg/h。
3、在整个蒸汽系统中，卧式锅炉配置空气预热器，可以大幅减少排烟温度，避免锅炉的频繁启停损失。贯流锅炉需要配置节能器，减少排烟温度。
4、锅炉独特的控制方式，可以确保蒸汽压力非常平稳，提高生产效率，减少不良品。
5、跟传统的开式系统相比较，盛源的闭式回收系统可以将能耗降低 20% 以上，大幅度减少运行费用。
6、全封闭式冷凝水回收系统避免带压的汽水出现“降压闪蒸”带来的能量损失；
7、全封闭式冷凝水回收系统减少了大气与蒸汽的损耗，锅炉进水不存在溶解氧，减少了“氧腐蚀”，一方面大幅减少用药成本，另一方面大幅延长了锅炉寿命。

1. Provide the overall solution of the steam system, from boiler selection, recycling system configuration, operation management, installation and commissioning, after-sales management, to provide a series of solutions.
2. A closed condensate recovery system is adopted. As the boiler inlet water temperature increases, the boiler's steam production also increases accordingly. Under the condition of the inlet water temperature of 130 degrees Celsius and the rated steam outlet pressure of 0.8MPa, the evaporation capacity of the 4000kg/h boiler reaches 4800kg/h.
3. In the entire steam system, the horizontal boiler is equipped with an air preheater, which can greatly reduce the exhaust gas temperature and avoid frequent start and stop losses of the boiler. The tubular boiler needs to be equipped with an economizer to reduce the exhaust gas temperature.
4. The unique control method of the boiler can ensure a very stable steam pressure, improve production efficiency and reduce defective products.
5. Compared with the traditional open system, Shengyuan's closed recovery system can reduce energy consumption by more than 20% and greatly reduce operating costs.
6. The fully enclosed condensate recovery system avoids the energy loss caused by "pressure-reducing flash evaporation" of pressurized soda;
7. The fully enclosed condensate recovery system reduces the loss of atmosphere and steam. There is no dissolved oxygen in the boiler inlet water, which reduces "oxygen corrosion". On the one hand, it greatly reduces the cost of medication and on the other hand, it greatly extends the life of the boiler.

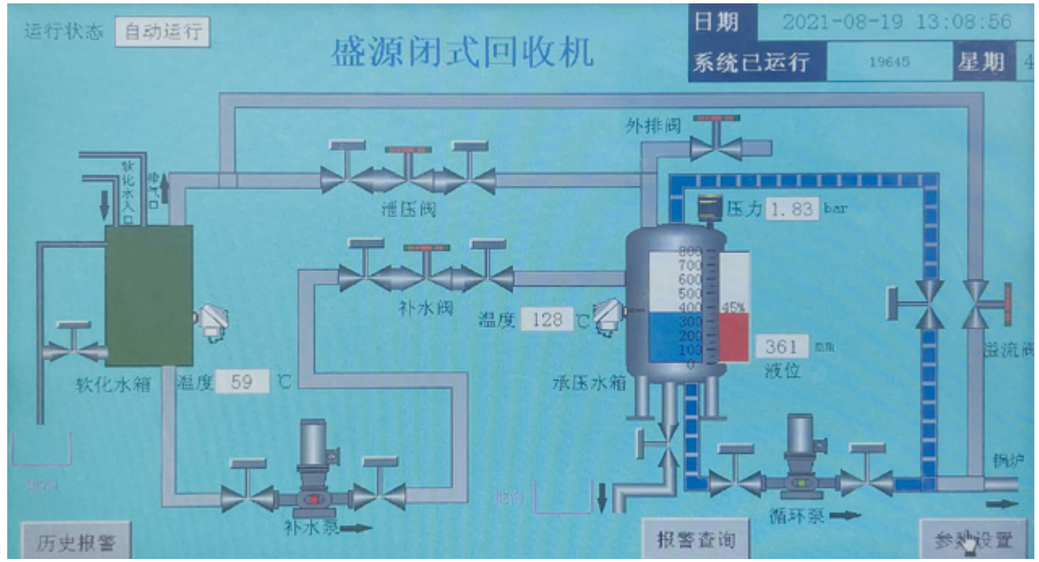
SHENGYUAN'S UNIQUE CLOSED-TYPE STEAM CONDENSATE RECOVERY SYSTEM SOLUTION (SYSTEM DIAGRAM)
盛源独有的闭式蒸汽凝结水回收的系统解决方案（系统图)



CLOSED RECYCLING MACHINE INTERFACE
闭式回收机界面



CLOSED RECYCLING MACHINE
闭式回收机

在环保抓紧的情况下，天燃气锅炉在包装箱行业内必须要陆续的更换，传统回收机不能与天燃气锅炉同步使用。闭式回收机通过回收冷凝水和除氧水箱的循环作用，可以把除氧后的热水（约 105 度）通过循环泵抽进锅炉，从而达到凝水不会流失。
使用闭式回收机与不用回收机可以节能 10%-15%。

In the case of environmental protection, natural gas boilers must be replaced one after another in the packing box industry, and traditional recovery machines cannot be used simultaneously with natural gas boilers. The closed recovery machine can pump the deoxidized hot water (about 105 degrees) into the boiler through the circulating pump by recycling the condensed water and the deaeration water tank, so that the condensate will not be lost.
Using a closed recycling machine and not using a recycling machine can save energy by 10%-15%.