



## SZS型燃油燃气锅炉

SZS GAS/OIL FIRED BOILER

### 产品简介 Product Introduction

SZS型燃油燃气锅炉是双锅筒纵置式室燃锅炉，由上下锅筒、膜式水冷壁、燃烧器、过热器、对流管束、省煤器、除污器等组成。炉膛水冷壁以及对流烟道均采用膜式壁结构，降低了耐火砖的使用。再加上锅炉具有节能、高效、环保、安装周期短、全自动运行、操作简单、保护功能完善等优势，既可以满足工业供热所需，也可以满足小型发电站的供热需求，是目前市场上非常畅销的一款锅炉。

此锅炉为快组装或散装水管锅炉，左侧为对流管束，右侧为炉膛。加热过程中，炉膛燃烧产生的烟气从炉膛尾部的出烟口进入燃烬室、对流管束区，然后再转向由翅片管做成的节能器和冷凝器中，最后再通过烟道、烟囱排入大气。其中，节能器和冷凝器的应用，既降低了排烟温度，提高了热效率，同时也减少了燃料的消耗。

SZS gas/oil boiler is double-drum vertical type chamber combustion boiler. It consists of upper and lower drums, membrane water wall, burner, superheater, convection pipe bundle, economizer and dirt separator, etc. Both the furnace water wall and the convection flue adopt membrane wall structure, which save refractory bricks. In addition, the boiler has the advantages of energy-saving, high efficient, environmentally friendly, short installation cycle, simple operation and perfect protection, etc, which can meet the needs of industrial heating and small power station supply heating, now becoming one popular boiler type on the market.

This boiler is quick-assembled or bulk water tube boiler with convection tube bundle on the left and chamber on the right. During the heating process, the flue gas which produced by the chamber combustion enters to burning chamber and convection pipe bundle and then turns to the economizer and condenser which made by finned tubes, and finally passes through the chimney flue and chimney, discharge into the air. Among them, the application of the economizer and the condenser not only reduces the exhaust gas temperature, but also improves the thermal efficiency, reducing fuel consumption.

## 性能特点 Performance Characteristics

- D型布置，结构紧凑，体积小，火焰充满度好
- 前后墙全部采用膜式水冷壁结构，确保使用寿命在20年以上
- 上下锅筒前后人孔的布置和锅炉后检查门的布置方便了用户检修和清理内外部
- 微正压燃烧，提高了锅炉的热效率，降低了运行成本
- 可靠的水循环系统，保证管内不发生汽化水击
- 防爆门和火焰探测器的布置，使得锅炉运行安全可靠
- 锅炉的绝热层采用高热阻材料，保温性能良好
- 外表采用凹凸护板，既保证了锅炉整体密封的优良性，也美化了外观质量
- 三回程对流管束设计，使烟气停留在炉膛内的时间延长，使燃料燃烧更充分，提高了燃烧效率
- 锅炉采用全自动燃烧器，燃烧效率较传统锅炉高。尤其是超压、熄火等保护功能，提高了工人操作的安全性

- D-type arrangement, has compact structure, small volume and good flame features.
- The front and rear walls are all made by membrane structure to ensure more than 20 years of usage life.
- It is convenient for user overhaul and clean inside and outside under the design of manhole and check door arrangement.
- Micro-positive pressure combustion improves the thermal efficiency of the boiler and reduces operating costs.
- Reliable water circulation system to ensure no vaporization hydraulic shock in the pipe.
- The arrangement of explosion-proof door and flame detector which makes the boiler running safe and reliable.
- The thermal insulation layer of the boiler is made by high thermal resistance material which has good thermal insulation performance.
- The appearance of the concave and convex shields not only ensures the excellent sealing of boiler, but also beautifies the outlook quality.
- Three-way convection pipe bundle design to extend the dwell time of smoke in chamber, to make fully combustion of fuel and improve combustion efficiency.
- Adopting fully automatic burner which combustion efficiency is higher than traditional boilers. In particular, the protection functions such as overpressure and flameout, it can improve the safety of workers' operations.

## 系统图 System Diagram

— 蒸汽管道 Steam Pipeline — 水管道 Water Pipeline



### 设备名称 Equipment Name

- |                               |                        |                            |                   |                      |
|-------------------------------|------------------------|----------------------------|-------------------|----------------------|
| ① 锅炉 Boiler                   | ② 水箱 Water Tank        | ③ 除氧泵 Deoxygenization Pump | ④ 节能器 Economizer  | ⑤ 冷凝器 Condenser      |
| ⑥ 膨胀器 Expander                | ⑦ 循环泵 Circulation Pump | ⑧ 补水泵 Water Filling Pump   | ⑨ 燃烧器 Burner      | ⑩ 软水器 Water Softener |
| ⑪ 分水缸 Water Separating Header | ⑫ 除污器 Dirt Separator   | ⑬ 回水缸 Water Return Header  | ⑭ 解吸除氧器 Deaerator |                      |



## 技术参数 Technical Parameters

### • 蒸汽锅炉 Steam Boiler

型号规格 Model And Specification Unit	额定蒸发量 Rated Steam Capacity (T/h)	额定工作压力 Rated Working Pressure (MPa)	饱和蒸汽温度 Saturated Steam Temperature (°C)	热效率 Heat Efficiency (%)	设计燃料 Design Fuel	最大运输重量 Max Transport Weight (KG)	最大运输尺寸 Max Transport Dimension(LxWxH) (MM)
SZS6-1.25-YQ	6					32000	7800X3400X3400
SZS6-1.6-YQ	6					32000	7800X3400X3400
SZS6-2.5-YQ	6					32000	7800X3400X3400
SZS10-1.25-YQ	10	1.25	194	93.3-97	天然气 轻油 重油等 Natural Gas, Light Oil, Heavy Oil, Etc.	40000	8000X3600X4500
SZS10-1.6-YQ	10	1.6	204			40000	8000X3600X4500
SZS10-2.5-YQ	10	2.5	225			40000	8000X3600X4500
SZS20-2.5-YQ	20					51000	8900X3900X4000
SZS30-2.5-YQ	30					68200	10500X4300X4320
SZS40-2.5-YQ	40					80500	12330X4400X4530
SZS50-2.5-YQ	50					散件15000	15530X4400X4530

### • 承压热水锅炉 Pressure Bearing Hot Water Boiler

型号规格 Model And Specification Unit	额定热功率 Rated Heat Power (MW)	额定工作压力 Rated Working Pressure (MPa)	额定出/回水温度 Rated Outlet/Return Temp (°C)	热效率 Heat Efficiency (%)	设计燃料 Design Fuel	最大运输重量 Max Transport Weight (KG)	最大外型尺寸 Max Dimension (MM)
SZS7-1.0/115/70-YQ	7					40000	8000X3600X4500
SZS10.5-1.0/115/70-YQ	10.5					48000	8850X3850X3930
SZS14-1.0/115/70-YQ	14	1	115/70	93.3-97	天然气 轻油 重油等 Natural Gas, Light Oil, Heavy Oil, Etc.	52500	8510X3850X3750
SZS17.5-1.0/115/70-YQ	17.5					57500	9310X3770X3750
SZS21-1.0/115/70-YQ	21					65000	10100X4130X4150

### • 过热蒸汽锅炉 Super Steam Boiler

型号规格 Model And Specification Unit	额定蒸发量 Rated Steam Capacity (T/h)	额定工作压力 Rated Working Pressure (MPa)	额定蒸汽温度 Rated Steam Temperature (°C)	热效率 Heat Efficiency (%)	设计燃料 Design Fuel
SZS6-1.6/350-YQ	6	1.6	350	>94	天然气 轻油 重油等 Natural Gas, Light Oil, Heavy Oil, Etc.
SZS6-2.5/400-YQ	6	2.5	400		
SZS10-1.6/350-YQ	10	1.6	350		
SZS10-2.5/400-YQ	10	2.5	400		
SZS15-1.6/350-YQ	15	1.6	350		
SZS15-2.5/400-YQ	15	2.5	400		
SZS20-1.6/350-YQ	20	1.6	350		
SZS20-2.5/400-YQ	20	2.5	400		
SZS25-1.6/350-YQ	25	1.6	350		
SZS25-2.5/400-YQ	25	2.5	400		
SZS30-1.6/350-YQ	30	1.6	350		
SZS30-2.5/400-YQ	30	2.5	400		
SZS35-1.6/350-YQ	35	1.6	350		
SZS35-2.5/400-YQ	35	2.5	400		
SZS40-1.6/350-YQ	40	1.6	350		
SZS40-2.5/400-YQ	40	2.5	400		

相关案例 Related Project



2018.10.23 蒙牛乳业（齐齐哈尔）15吨燃气蒸汽锅炉  
2018.10.23 15t/h gas fired steam boiler in Meng Niu Dairy group (Qiqihaer)



2018.09.20 河南周口郸城天豫薯业2台10吨30毫克低氮冷凝锅炉  
2018.09.20 2 sets of 10t/h low nitrogen condensing boilers in Zhoukou Tianyu Potato Industry co.,Ltd



2018.04.10 山西喜跃发集团6吨燃气过热蒸汽锅炉  
2018.04.10 6t/h super steam boiler in Shanxi Xiyuefa group



2017.05.12 缅甸Pinn Pinn, Family CO., Ltd采购15吨蒸汽锅炉  
2017.05.12 15t/h steam boiler to Pinn Pinn Family company in Myanmar

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