



河南永兴锅炉集团有限公司  
HENAN YONGXING BOILER GROUP CO., LTD.



## SZL型生物质锅炉

SZL COAL/BIOMASS FIRED BOILER

### 产品简介 Product Introduction

SZL型生物质锅炉采用双锅筒纵置式布置，燃烧方式为链条炉排，燃料为清洁能源生物质（燃烧过程中不仅不会产生废气、废物、废烟，而且造价低，容易获得，实现了废物再利用），符合市场的发展趋势和客户的需求。此锅炉由上部的本体受热面和下部的燃烧设备两大件组成。燃料在燃烧设备中燃烧，产生的烟气经炉膛、燃烬室、对流管束等进入尾部烟道，随后通过除尘器、引风机、烟囱等排入大气。

SZL型生物质锅炉的炉膛两侧采用膜式水冷壁结构，既提高了锅炉的密封性，也增加了炉膛的容积和受热面。更好的是前后墙布置的有二次风（由阀门控制），不仅使燃料充分燃尽，提高了燃烧效率和热效率，降低了燃料成本的投入，而且减少了废物、废渣的产生。更好的是它还具有自动化水平高、运行安全稳定、保护功能完善等优势，成为不少企业购买锅炉的理想选择。

SZL type biomass boiler adopts double-drum vertical arrangement with chain grate, and the fuel is clean energy biomass (Cannot produce waste gas and waste smoke under combustion with low cost and easily obtain features, all to realize waste recycling), it meets market trends and customer request. The boiler consists of two parts: the upper body boiler and the lower combustion part. The fuel is burned in the combustion chamber, and the generated flue gas which enters the tail flue through furnace, combustion chamber, convection tube bundle, etc, and then discharge to the air by dust remover, induced draft fan and chimney.

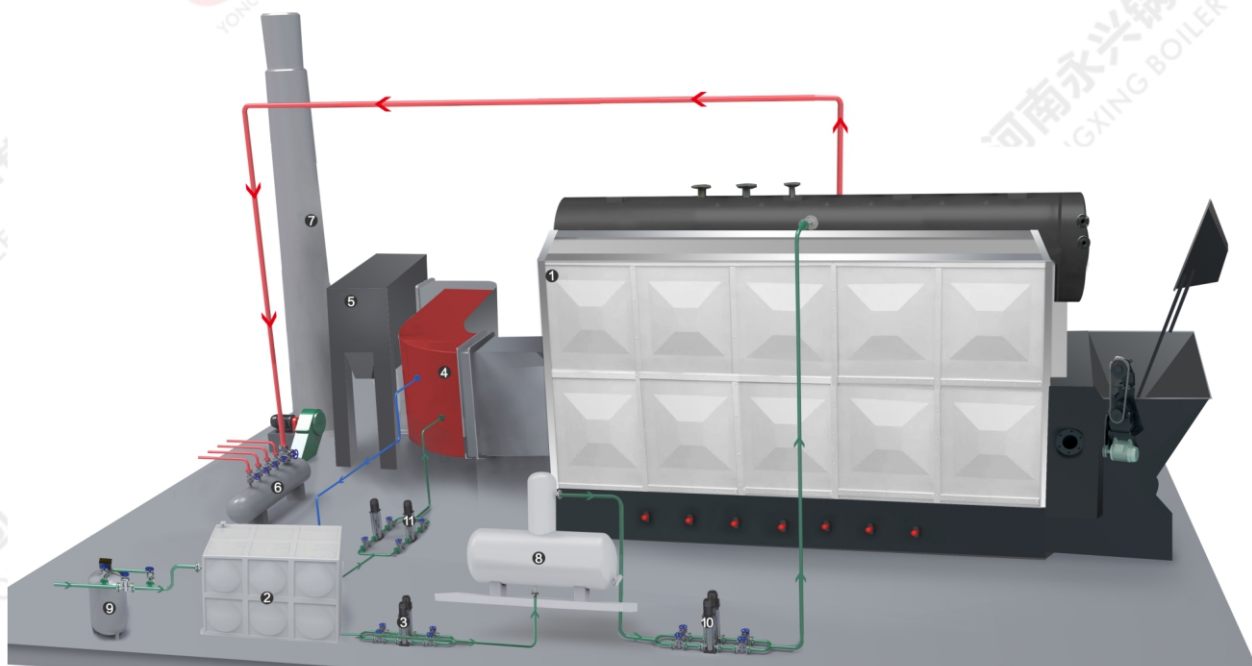
The two sides on the chamber of SZL biomass boiler adopts membrane all wall structure, which not only improves the sealing performance of boiler, but also increases the volume and the heating surface. What is better is that the front and rear walls are arranged with secondary air (controlled by the valve), which not makes fully combustion of fuel, but also improves the combustion and thermal efficiency, reducing the fuel cost and waste generation. What's even better is that it also has the advantages of high automation, safe and stable operation, perfect protection function, etc. It has become an ideal choice for many enterprises who plan to purchase boiler.

## 性能特点 Performance Characteristics

- 对流布置受热面换热效率高，锅炉运行效率平稳
  - 链条炉排面板，前后烟箱面板全都采用数控等离子切割机切割，整齐美观
  - 锅筒容积较大，内部装置齐全
  - 锅炉具有给水自动调节、高低水位自动报警、超压自动保护、熄火自动保护等功能
  - 锅炉运行平稳且具有一定的超负荷运行能力
  - 前、后拱匹配合理，炉拱的覆盖率大，炉膛温度高
  - 双锅筒布置，燃烧效率高，运行费用节省5-10%
  - 各受热面下降面与上升管的截面比合理，燃烧工况稳定
  - 各风室不同燃料不同燃烧阶段所需的空气量可人为调整，横向风压一致，不会出现偏烧现象
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- Convection layout can make high heat transfer efficiency, and it is stable for boiler operation efficiency.
  - Both front and rear smoke box adopt CNC plasma cutting technology when make it neat and beautiful.
  - Large drum volume and complete internal equipment.
  - The boiler has some functions, such as automatic adjustment of water supply, automatic alarm of high and low water level, automatic protection of overpressure, automatic protection of flameout, etc.
  - The boiler runs smoothly running and has a certain overload operation ability.
  - The front and rear arches are properly matched, the coverage of the furnace arch is large, and high temperature of furnace chamber.
  - Double drums arrangement, high combustion efficiency and 5-10% savings in operating costs.
  - It is reasonable for cross-section ratio which from falling surface and upper pipe, also combustion condition is stable.
  - The amount of air can be artificially adjusted which required for different combustion stages and different fuels in each plenum, and the lateral wind pressure is consistent, no partial burning phenomenon.

## 系统图 System Diagram

— 蒸汽管道 Steam Pipeline — 水管道 Water Pipeline — 回水管道 Water Return 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 旋风除尘器 Cyclone Dust Remover | ⑥ 分水缸 Water Separating Header | ⑦ 烟囱 Chimney               | ⑧ 除氧器 Deaerator  |
| ⑨ 软水器 Water Softener         | ⑩ 给水泵 Feed Water Pump         | ⑪ 节能泵 Energy-Saving Pump   |                  |



## 技术参数 Technical Parameters

### • 蒸汽锅炉 Steam Boiler

型号规格 Model And Specification	额定蒸发量 Rated Steam Capacity	额定工作压力 Rated Working Pressure	饱和蒸汽温度 Saturated Steam Temperature	热效率 Heat Efficiency	设计燃料 Design Fuel	最大运输重量 Max Transport Weight	最大运输尺寸 Max Transport Dimension(LxWxH)
Unit	(T/h)	(MPa)	(℃)	(%)		(KG)	(MM)
SZL4-1.25-T	4	1.25/2.5	194/225	83	生物质 燃料 Biomass Fuel	23000	6300x2300x3200
SZL6-1.25-T	6					25000	7700x2800x3450
SZL8-1.25-T	8					27000	7800x3100x3520
SZL10-1.25-T	10					30000	7900x3300x3640
SZL15-1.25-T	15					40000	10000x3200x3500
SZL20-1.25-T	20					45000	11000x3300x3500

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

型号规格 Model And Specification	额定热功率 Rated Heat Power	额定工作压力 Rated Working Pressure	额定出/回水温度 Rated Outlet/Return Temp	热效率 Heat Efficiency	设计燃料 Design Fuel	最大运输重量 Max Transport Weight	最大外型尺寸 Max Dimension
Unit	(MW)	(MPa)	(℃)	(%)		(KG)	(M)
SZL4.2-1.0/115/70-T	4.2	1	115/70	83	生物质 燃料 Biomass Fuel	23000	10.2x3.2x5.8
SZL5.6-1.0/115/70-T	5.6					34000	11.7x3.5x5.9
SZL7.0-1.0/115/70-T	7					35000	11.9x3.2x6.4
SZL10.5-1.0/115/70-T	10.5					39000	12.6x4.6x6.7
SZL14-1.0/115/70-T	14					45000	13.8x5.2x8.4

### • 常压热水锅炉 Atmospheric Pressure Hot Water Boiler

型号规格 Model And Specification	额定热功率 Rated Heat Power	额定工作压力 Rated Working Pressure	额定出/回水温度 Rated Outlet/Return Temp	热效率 Heat Efficiency	设计燃料 Design Fuel	最大运输重量 Max Transport Weight	最大外型尺寸 Max Dimension
Unit	(MW)	(MPa)	(℃)	(%)		(KG)	(M)
CSZL4.2-85/60-T	4.2	0	85/60	83	生物质 燃料 Biomass Fuel	23000	10.2x3.2x5.8
CSZL5.6-85/60-T	5.6					34000	11.7x3.5x5.9
CSZL7.0-85/60-T	7					35000	11.9x3.2x6.4
CSZL10.5-85/60-T	10.5					39000	12.6x4.6x6.7
CSZL14-85/60-T	14					45000	13.8x5.2x8.4

## 相关案例 Related Project



2017.7.20 云南玉溪水松纸厂8吨生物质蒸汽锅炉

2017.7.20 8t/h biomass steam boiler in Yunan Yuxi Paper making factory



2017.3.27 安徽联谊药业股份有限公司10吨生物质蒸汽锅炉

2017.3.27 10t/h biomass steam boiler in Anhui Lianyi Pharmaceutical co. Ltd



2014.12 河南郑州核工业第五研究院10吨蒸汽锅炉

2014.12 10t/h SZL biomass fired steam boiler in Fifth Institute of nuclear industry



2011.08 北京奥德华乳品8吨蒸汽锅炉

2011.08 8t/h steam boiler in Beijing Aodehua dairy factory

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