



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



DZL型生物质锅炉

DZL COAL/BIOMASS FIRED BOILER

产品简介 Product Introduction

永兴锅炉研发的DZL型生物质锅炉是一种采用生物质颗粒做燃料的单锅筒纵置式链条炉排锅炉，是新一代高效节能的锅炉产品。它采用的燃料生物质是一种理想的可再生能源，每年都有大量的产出，用它代替煤的燃烧，不仅可以为企业降低成本，带来丰厚的经济回报，而且废物利用，增加了农民的收入，实现了经济效益和社会效益的共同发展。不仅如此，此锅炉还具有升压快、热效率高、受热面积大等优势。

DZL型生物质锅炉是一种卧式三回程水火管锅炉，设计时采用了高效节能强化燃烧技术，保证了燃料的充分燃烧。更好的是炉膛、燃烬室的容积非常大，有利于飞灰的燃烬和沉降。出口烟窗处设置的有灰尘粗分离转向室，达到了锅炉炉内除尘的目的，降低了烟气的排放量，使之达到国家环保规定的指标。

The DZL type biomass boiler which developed by Yongxing Boiler is a single-drum vertical chain grate boiler that uses biomass pellets as fuel, and is a new generation of high-efficiency and energy-saving boiler. Its fuel biomass is an ideal renewable energy source and large amount of output every year. It can replace the burning of coal, which can not only reduces costs for enterprises, but also as waste utilization who can bring huge economic returns. By this way the common development of economic and social benefits has been achieved. It also has the advantages of fast boosting, high thermal efficiency and large heating area.

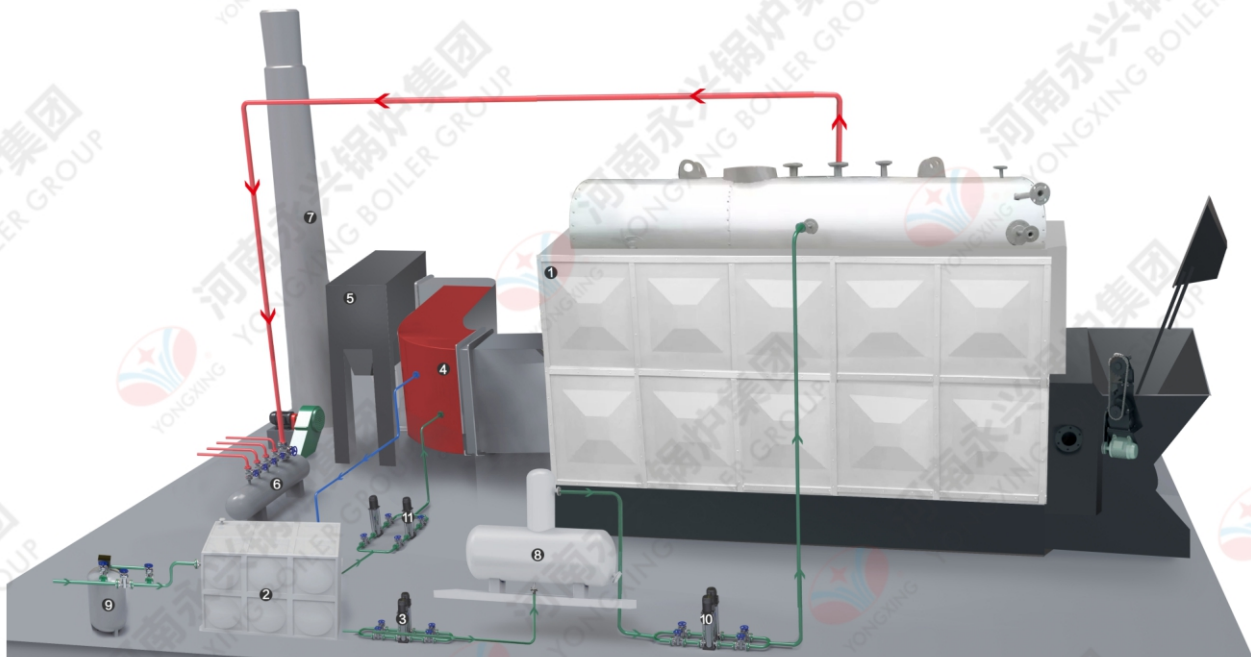
DZL type biomass boiler is a horizontal three-return water-fire tube boiler. It is designed with high-efficiency and energy-saving enhanced combustion technology to ensure the full combustion of fuel. What is even better is that the volume of the furnace and the combustion chamber is very large, which is conducive to completely burning and settlement of the fly ash. Dust coarse separation steering chamber installed at the exit smoke window, which achieves the purpose of dust removal, reduces the emission of flue gas and makes it meet the national environmental protection regulations.

性能特点 Performance Characteristics

- 采用螺纹烟管传热，提高了热效率，降低了能耗
 - 膜式水冷壁结构的应用，提高了传热系数和传热效果，降低了热损失
 - 螺纹烟管设置于锅壳内，总体漏风少，排烟热损失小
 - 锅炉的焊缝均采用先进的埋弧自动焊工艺，保证了焊接质量
 - 尾部烟道布置有除尘器，保证烟尘排放符合环保要求
 - 自动化水平高，具有水自动调节、低水位联锁保护、高低水位报警等功能
 - 先进的拱形设计，形成明显倒“α”火焰，有利于劣质煤的燃烧，煤种适应性强
 - 控制监测仪表齐全，锅炉运行安全可靠
 - 两翼烟道的设置，使烟气能够顺利进入前烟箱，使之前管板温度相同，避免因温度应力而产生管板裂纹
 - 炉排采用新型小鳞片式炉排片，增加了独有的保险环，使炉排运行稳定可靠，提高了燃烧效率
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- The use of threaded pipe heat transfer improves thermal efficiency and reduces energy consumption.
 - The application of the membrane water wall structure improves the heat transfer coefficient and effect which can reduce heat loss.
 - The threaded pipe is placed inside boiler shell, low leakage and exhaust loss.
 - The welding seams of the boiler adopt advanced submerged arc automatic welding technology to ensure the quality of the boiler.
 - The tail flue is equipped with dust collector to ensure that the dust emission meets environmental protection requirements.
 - Highly automation, also has functions of water automatic adjustment, low water level interlock protection, high and low water level alarm, etc.
 - Advanced arch design, the formation of an obvious "a" flame is conducive to the burning of inferior coal, strong adaptability of coal.
 - The control and monitoring instruments are complete, and the boiler operation is safe and reliable.
 - The setting of the two-wing flue enables the flue gas smoothly enter into the front smoke box, so that keep the same temperature with the previous tube sheet, and the tube sheet crack caused by temperature stress can be avoided.
 - Chain grate adopts new type of small scale-type grate, which adds a unique safety ring to make the grate stable and reliable, and improve combustion efficiency.

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 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)
DZL0.5-1.25-T	0.5	1.25	194	83	生物质 燃料 Biomass Fuel	11000	3300x2000x2656
DZL1-1.25-T	1					15000	5200x2100x2600
DZL2-1.25-T	2					23000	5650x2400x2700
DZL3-1.25-T	3					24000	5700x2600x2800
DZL4-1.25-T	4					29000	6850x2700x3200
DZL6-1.25-T	6					32000	6800x2900x3400
DZL8-1.25-T	8					35000	7200x3200x3800
DZL10-1.25-T	10					40000	7900x3400x5500

• 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)
DZL0.35-1.0/115/70-T	0.35	1	115/70	83	生物质 燃料 Biomass Fuel	11000	3300x2000x2656
DZL0.7-1.0/115/70-T	0.7					14500	4800x2150x2960
DZL1.4-1.0/115/70-T	1.4					25000	5280x2380x3030
DZL2.1-1.0/115/70-T	2.1					26000	5500x2420x3250
DZL2.8-1.0/115/70-T	2.8					28000	6000x2500x3400
DZL4.2-1.0/115/70-T	4.2					30000	7200x2600x3800
DZL5.6-1.0/115/70-T	5.6					35000	7600x2800x4200
DZL7.0-1.0/115/70-T	7					40000	8000x3200x5580

• 常压热水锅炉 Atmospheric Pressure 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)
CDZL0.35-85/60-T	0.35	0	85/60	83	生物质 燃料 Biomass Fuel	9000	3300x2000x2656
CDZL0.7-85/60-T	0.7					14500	4800x2150x2960
CDZL1.4-85/60-T	1.4					25000	5280x2380x3030
CDZL2.1-85/60-T	2.1					26000	5500x2420x3250
CDZL2.8-85/60-T	2.8					28000	6000x2500x3400
CDZL4.2-85/60-T	4.2					30000	7200x2600x3800
CDZL5.6-85/60-T	5.6					35000	7600x2800x4200
CDZL7.0-85/60-T	7					40000	8000x3200x5580

相关案例 Related Project



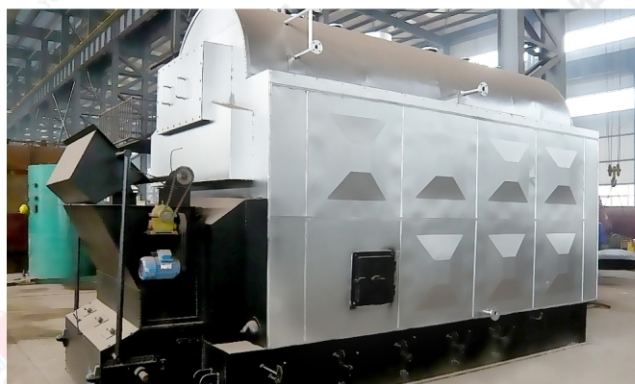
2018.06.15 安徽金亮新型材料有限公司2吨生物质蒸汽锅炉
2018.06.15, 2t/h DZL biomass fired hot water boiler in Anhui Jinliang new materials co.,Ltd



2018.04.28 河南永乐粮油机械有限公司2吨生物质蒸汽锅炉
2018.04.28 2t/h biomass fired steam boiler in Henan Yongle Cereals and Oils Machinery Co.Ltd



2016.12 河南盛鸿纺织有限公司4.2MW生物质热水锅炉
2016.12 4.2mw/h biomass hot water boiler in Henan Shenghong Textile Co.,Ltd



2011.06 江苏南通万源新型墙体材料有限公司4吨生物质蒸汽锅炉
2011.06 4t/h biomass steam boiler in Jiangsu Wanyuan New-type Wall Materials Co.,Ltd

聚永兴 创共赢

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