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生物质锅炉 Biomass Firing Boilers



无锡中正锅炉有限公司

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公司介绍

无锡中正锅炉有限公司是中华人民共和国质量监督检验检疫总局核准的锅炉和压力容器定点制造企业。公司持有A级锅炉制造许可证，BRⅡ级压力容器制造许可证，美国ASME标准“S”（动力锅炉）、“U”（压力容器）许可印，并全面通过ISO9001:2000国际质量体系认证。公司座落于风光优美的太湖之滨，占地12万平方米，是一个具有年产12000蒸吨锅炉生产能力的现代化生产企业，为AAA级资信等级企业，历年来被评为无锡市及江苏省的重合同守信用企业、出口名牌企业、高新技术企业、优秀民营企业。

公司拥有一流的生产工艺装备，检测手段齐全，主要设备有：蛇形管生产线、数控盘管生产线、膜式壁生产线、纵环缝自动焊接生产线、钢架自动焊接生产线、数控等离子（火焰）切割机、数控锅筒钻、高速数控平面钻、高速集箱数控钻、100mm三辊数控万能式卷板机、相贯线数控切割、CNC、机器人焊接设备、Φ168数控立体弯管设备、4轴数控弯管机、3维激光切割机、管端成型设备、100T万能材料试验机、金相显微镜、射线探伤仪器、硬度计、光谱分析仪大型热处理炉、喷砂除锈房和喷漆烤漆房等等。

无锡中正锅炉有限公司全面实行计算机信息化管理和6S现场管理。目前主要产品包括工业锅炉、有机热载体锅炉、大型热水锅炉、电站锅炉、余热回收装置（HRSG）、特种余热锅炉、生物质锅炉、压力容器等系列。YLW系列和YY(Q)W(L)系列系列燃煤、燃生物质、燃气有机热载体锅炉、DZL型单锅筒纵置式链条炉排蒸汽和热水锅炉、SZL型双锅筒纵置式链条炉排蒸汽和热水锅炉、WNS型卧式三回程背式蒸汽和热水锅炉、SZS型双锅筒纵置式燃气蒸汽和热水锅炉、SHL型双锅筒横置式链条炉排蒸汽和热水锅炉、循环流化床蒸汽和热水锅炉、与西安交通大学联合研究开发的DHL型角管式大型热水锅炉、与北京之光锅炉研究所技术合作开发的DZL型新型水火管大型热水锅炉、拥有自主知识产权的DHL型单锅筒横置式P型大型热水锅炉、10-220t/h中温中压及高温高压电站锅炉、燃气-燃气轮机联合循环发电余热回收装置、金属行业、化工行业等各行业的余热锅炉、生物质燃料锅炉等400多个品种规格。

“不偏之谓中，中者天下之正道；立天下之正位，行天下之大道。”诚信与敬业为立足市场之根本，技术与质量为领先市场之前提，服务与指导为巩固市场之关键。中正人以用户利益为己任，服务于社会。

COMPANY INTRODUCTION

Wuxi Zozen Boilers Co., LTD is the government designated enterprise of A-grade boilers, BRⅡ. grade pressure containers and ASME "S", "U" manufacturing license that is approved by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China. The Company, situated at the side of beautiful Lake Taihu at Wuxi covering an area of 120,000M², is a modern enterprise with the yearly production capacity of 12000 steam ton. The company has certified for the certificate of ISO9001 quality assurance system, as well as the AAA-grade credit enterprise. It has been evaluated as the Company of Honoring the Contract & Keeping Commercial Integrity, high-tech enterprise, and excellent civil-run enterprise of Wuxi city & Jiangsu Province. Therefore, the Company relies on its professional experts, strict business management and fine production equipments, to manufacture the "ZOZEN" brand boilers and enjoy the reputation in whole China and even in the whole world.

The company has advanced production processing equipment and complete testing method. The main processing equipment are serpent tube line, CNC coiler production line, membrane wall line, vertical & circle welding line, steel frame automatic welding line, digital control plasma (flame) cutting machine, CNC drum drilling, high-speed CNC flat surface drilling, high-speed header digital control drilling, 100mm three roller CNC universal binder, intersecting lines digital control cutting, CNC, robot welding equipment, Φ168 CNC three-dimensional bending equipment, 4 axis NC tube bending machine, 3D laser cutting machine, pipe end forming equipment, 100T universal material testing machine, metallurgical microscope, x-ray detector, hardness tester, spectrum analyzer, large scale heat treatment furnace, sand blasting and painting etc.

The company comprehensively implements computer information management and 6S site management. The main products include series of: industry boiler, organic heat carrier boilers, hot water boilers, power plant boilers, HRSG, special heat recovery boilers, Biomass boilers and pressure vessels. There are more than four hundred varieties and specifications, i.e. the steam boiler and hot water boiler of YLW series and YY(Q)W(L) series coal fired, biomass fired, gas fired organic heat carrier boiler, DZL type single drum with chain grate, the steam and hot water boilers of SZL type double drum with chain grate, the WNS type horizontal three return back steam and hot water boiler, the SZS type double drum oil/gas combustion D-type steam and hot water boilers, steam and hot water boilers of SHL type horizontal arranged double drum with chain grate, the circulating fluidized bed steam and hot water boilers designed by Tsinghua University, big size DHL corner tube hot water boiler jointly developed with Xi'an Jiao Tong University, the new DZL type water-fire tube (hybrid) hot water boiler jointly developed with the Boiler Research Institute of Beijing Light, the DHL type single horizontal drum P-type large hot water boilers which was self-developed and owns intellectual property right, 10-220t/h medium and high temperature/pressure power plant boilers, combined cycle power generation with waste heat recovery device, the waste heat boilers for the industries of metal, chemical etc. and biomass fuel boilers etc.

The "ZOZEN" people always respect sincerity and business reputation as our marketing principle, and always pursue the market-leading for our technology and product quality, as well as perfect our service and sales guide as the key for consolidating our markets as well. "ZOZEN" people shall abide the aim of protecting the interest of clients as our liability so as to serve the society by our heart!



SZL

系列生物质卧式蒸汽、热水锅炉

series biomass firing horizontal type steam & hot water boilers

概述:

SZL型系列锅炉是我公司技术人员根据国内、外先进技术和经验设计而成的卧式双锅筒纵置式链条炉排水管蒸汽和热水锅炉。该系列产品技术、性能、环保指标均达到国际先进水平，为锅炉行业的主导产品。

锅炉采用快装或组装结构。4~6t/h为快装水管结构，在厂内全部整装后出厂；6~35t/h由上下二大件组成，上部大件为受热面，下部大件为燃烧设备。锅炉本体的前端为四周布置的水冷壁上上部与锅筒连接下部与集箱连接组成燃烧室，以吸收炉膛辐射热，其后端在上下锅筒之间布置密集的对流管束，燃烧后的高温烟气经过二次回程横向冲刷对流受热面后引至单独布置的省煤器，最后进入除尘器经烟囱排出。20t/h组装水管锅炉由前炉膛、后炉膛、对流管束、省煤器及链条炉排组成，并分别装配成整体出厂。

本系列锅炉吸取快装锅炉的优点，结构紧凑、锅炉房为单层布置、现场安装方便、周期短、费用低、操作简便等优点。本系列蒸汽锅炉适用于工业及生活用汽，相应容量的热水炉适用于工业及民用采暖。

INTRODUCTION:

SZL series boiler is the horizontal dual cylinder arranged, chain grating, pipe steam and hot water boiler designed by our technical personnel according to advanced technology and experiences from home and abroad. The technology, performance and environmental protective index of this series of products reach the international advanced level, and this product is the mainstay one in boiler industry.

The boiler uses quick fitting or assembly structure. The 4~6t/h boiler is of quick fitting pipe structure, exit shop after completely assembled, the boiler of 6~35t/h is composed of 2 main components; The upper assembled components is the body heat accepting part, and the lower assembled component is of combustion equipment. The former part of the boiler body is arranged a water cooling wall, the upper part of it is connected to boiler cylinder, and its lower part is connected to collective chest, so as to form a combustion room and absorb the radiated heat from the furnace; its rear part is arranged with dense convection pipe bundle between upper and lower boiler cylinders; the high temperature smog after combustion shall stand for twice returning flushing transversely to the heat accepting surfaces, and shall be introduced to coal saver singly arranged, and flow into duster and exhausted from chimney in the end. The 20t/h assembled water pipe boiler is composed of front furnace, rear furnace, convection pipe bundle, coal saver and chain grating, and which are assembled in big components respectively for delivery.

This series of boiler absorbs the merits from quick fitting boiler, features compact in structure, the boiler's shop is of one storey arranged, convenient for site installation, short in construction period, cheap in cost, simple in operation and etc. This series of steam boiler is suitable for industrial and living steam consumption, the correspondent capacity hot water boiler is applied for industrial and civil heating purpose.



制造工艺特点

MANUFACTURING PROCESS FEATURES

锅炉制造工艺

- 钢板下料、圈圆、锅筒、管板钻孔等关键加工工艺全采用先进的数控加工，减少组装应力，延长锅炉使用寿命。
- 钢管切割、管端抛光、除锈、弯制，加工均采用先进的数控加工工艺。
- 自动化生产线。

Boiler manufacturing process

- Key processing technology like material preparation and circling of steel plate, drilling of drum and tube plate, etc are all adopted advanced CNC machining process to decrease the assemble stress and extend the boiler working life.
- Steel tube cutting, polishing, rust cleaning, bending and process of tube end are all adopted advanced CNC process.
- Automatic production line.

锅炉焊接工艺

- 锅炉纵、环缝，管子和锅筒内侧的焊接，管子和法兰焊接等重要部位的焊均采用埋弧自动焊，或气体保护焊等自动化焊接工艺，保证焊接质量。所有纵、环焊缝均进行100%的射线探伤。
- 管座法兰焊接，采用机器人焊接。
- 链条炉排面板，前后烟箱面板采用数控等离子切割机切割，整齐美观。
- 链条炉排均为本厂制造，出厂前均经过48小时冷态试运转，确保运行不跑偏。

Boiler welding process

- Weld of important parts like the boiler vertical and circular seam, weld of tube and drum inboard, weld of tube and flange, etc all adopt automatic welding process like unionmelt welding or gas shielded welding, etc to ensure the welding quality. All the vertical and circular seams will be done 100% radiographic inspection.
- Tube flange weld adopts robot welding.
- The chain grate panel, front and rear smoke chamber panel adopts CNC plasma cutting machine to cut orderly and beautifully.
- Chain grate are all manufactured by ZOZEN and be cold state test running for 48 hours before leaving the factory to make sure that the degree of tightness is moderate.

检修平台

- 检修平台安全可靠，布置合理，检修方便。
- 平台扶梯采用螺栓、螺母固定。
- 安装方便，不破坏底漆。

Overhaul platform

- Overhaul platform is safe and reliable, arranged reasonably and overhauled conveniently.
- Platform ladder will be fixed by bolt and nut.
- Safe and convenient and primer will not be damaged.

人孔、检修门

- 上下锅筒均设有人孔，打开方便，利于用户检修和清理。
- 炉膛设置了检修门、方便检修与保养。

Manhole, inspection door

- Manhole are set on upper and lower drum. Manhole opens conveniently and is good for overhaul and clean.
- Inspection door is set in furnace for convenient overhauling and maintenance.

播料器

- 播料器，均匀给料，防止回火。

Sow feeder

- Sow feeder feed fuel equally to avoid flashback.

调速箱

- 根据生物质燃烧速率，设计合理转速，确保燃料燃尽。

Speed control gear

- Design reasonable rotating speed according to the combustion speed of biomass to make sure the fuel burning out.

二次进风

- 进行炉膛烟气扰动，保证挥发完全燃烧。
- 风量占总风量30%左右，风速约为50m³/s。
- 独立二次风机，风量风压易控制和调整。

Secondary air inlet

- Disturb the furnace flue gas to ensure the total combustion of volatile matters.
- Air volume makes up 30% of total air volume. The air speed is around 50m³/s.
- Air volume and air pressure of separate secondary fan are easy to be controlled and adjusted.

弹簧全启式安全阀

- 安全阀的排放量都经过严格计算。
- 锅炉最大蒸发量当系统压力超过规定值时，安全阀自动打开泄压，从而保证系统不因压力过高而发生事故。

Spring full lift safety valve

- The safety valve discharge capacity is calculated strictly.
- When the system pressure exceed rated value, safety valve will open decompression automatically to make sure that no accident will occur because of high system pressure.

极低水位电极(蒸汽锅炉)

- 除国标规定的水位安全设置后，我们增加了极低水位电极保护，此电极和鼓、引风机联锁，确保锅炉运行时的水位安全。

Extreme low water electrode (steam boiler)

- Except the water level safety setting of international regulation, we add extreme low water level electrode protection. The electrode interlocks with FD fan and ID fan to make sure the water level is safe when boiler is operating.

面板

- 冷轧压模成凹凸面板，刚性好，强度大，美观大方。
- 采用自攻螺丝固定，无焊点。
- 外表经除锈后再涂防腐及面漆、底漆，美观大方。

Panel

- Cold rolling pressed film forms concave-convex panel which has great rigidity and strength and is beautiful.
- Fixed by self-tapping screw and there is no welding spot.
- After rust removed, the surface will be printed corrosion prevention and finishing coat and primer. It's beautiful.

独立风仓

- 根据不同吨位，炉排从前到后设置不同数量的独立风仓。
- 用户可以根据不同的燃烧情况合理分配给风，确保燃料的燃烧充分。

Independent air bin

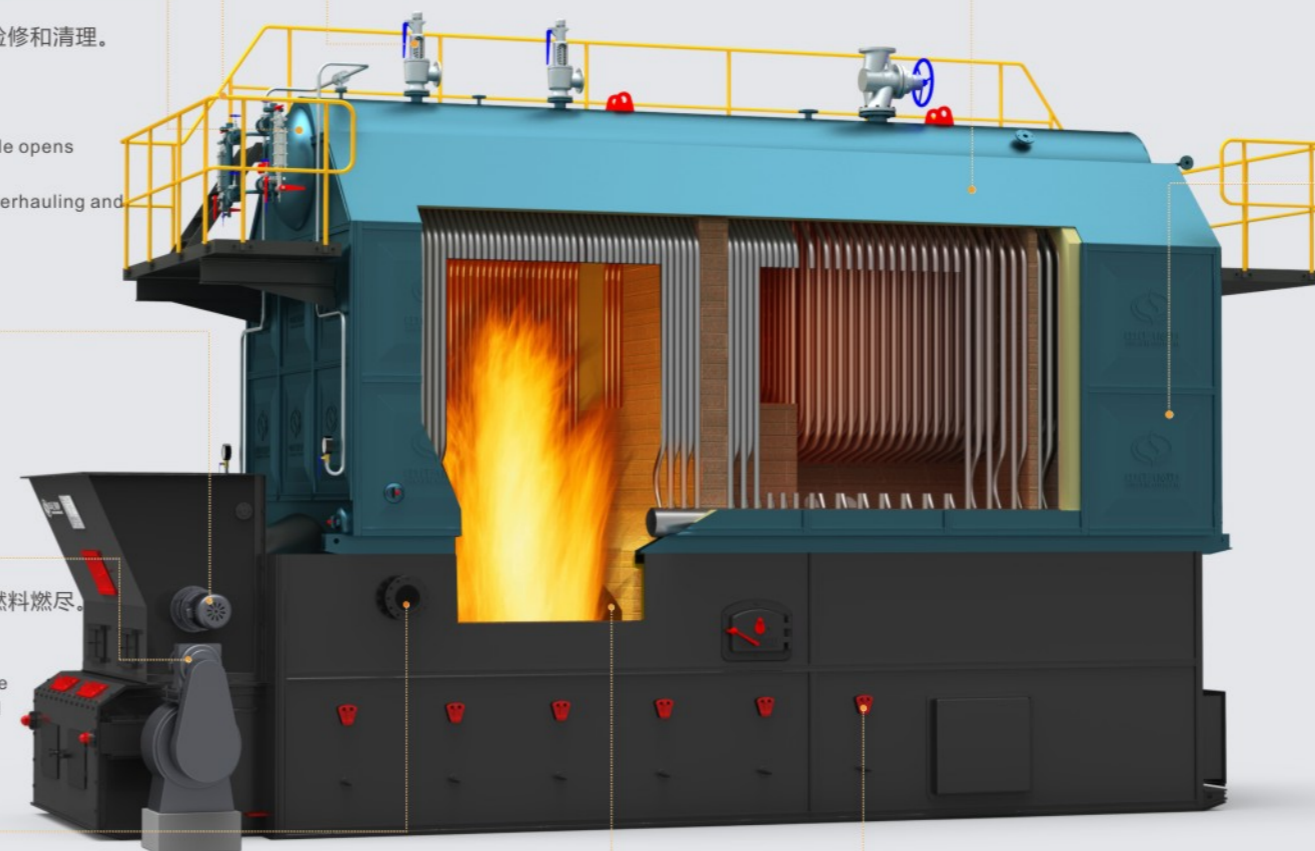
- Set different quantity of independent air bin from front to rear grate according to different capacity.
- Distribute air reasonably according to various fuel is totally fired combustion condition to make sure that the coal is totally fired.

链条炉排

- 链条炉排层燃燃烧，科学的炉拱，合理的配风，颗粒燃料燃烧充分。

Chain grate

- Chain grate layer burning, scientific furnace, reasonable air distribution, full combustion of pellets fuel.



DZL系列生物质卧式蒸汽、热水锅炉参数表

PARAMETER OF DZL SERIES BIOMASS HORIZONTAL TYPE STEAM & HOT WATER BOILER

参数项目 Item	锅炉型号 Model	* DZL1-0.7-M DZL1-1.0-M DZL0.7-0.7/95/70-M				
		* DZL2-1.0-M DZL2-1.25-M DZL2-1.57-M DZL2-2.45-M DZL1.4-0.7/95/70-M	* DZL4-1.25-M DZL4-1.57-M DZL4-2.45-M DZL2.8-0.7/95/70-M	* DZL6-1.25-M DZL6-1.60-M DZL4.2-1.0/115/70-M		
额定蒸发量/额定供热量(t/h/MW) Rated evaporation capacity		1/0.7	2/1.4	4/2.8	6/4.2	
工作压力(MPa) Pressure		0.7/1.0/0.7	1.0/1.25/1.57/2.45/0.7	1.25/1.57/2.45/0.7	1.25/1.6/1.0	
蒸汽温度/额定出水温度(°C) Steam temperature / Rated output water temperature		170/184/95	184/194/204/225/95	194/204/225/95	194/205/115	
给水温度/回水温度(°C) Feedwater/return water temperature		20/70	20/70	20/70	20/70	
受热面积(m²) Heating area	本体 Body	32.4	46.0	106.89	126.7	
	省煤器(m²) Economizer	12.51	35.2	38.5	78.5	
炉排面积(m²) Effective area of grate		2.05	3.70	5.30	8.32	
适用燃料 Available Fuel	生物质 Biomass 应用基低位发热值(kJ/kg) Low heating value	生物质成型颗粒燃料/Biomass particle fuel 16240				
锅炉燃料消耗量(kg/h) Fuel consumption		196	392	784	1176	
锅炉热效率(%) Thermal efficiency		79.00	79.00	79.00	79.00	
最大运输重量(t) Weight of biggest part for transportation		13	22	30	23	
最大运输尺寸L×W×H(m) Overall dimension of boiler assembled		5.2×2.0×2.9	5.7×2.5×3.5	6.6×2.6×3.6	7.3×3.2×3.6	
安装后外形尺寸L×W×H(m) Overall dimension of boiler assembled		6.0×3.5×4.1	6.0×3.9×5.0	7.2×4.0×4.9	8.0×5.1×6.0	
引风机 Induced draft fan	型号 Model	YX9-35-12NO:5C右0°	GY2-18右0°	GY4-18右0°	GY6-1右0°	
	风量(m³/h) Flow rate	6610-7902	5000-9000	11000-14000	12000-24000	
	风压(Pa) Wind pressure	2089-2138	3340-3100	3920-3930	3980-4245	
	转速(r/min) Rotation speed	2240	1450	1450	1450	
	电动机 Electric motor	型号 Model 功率(kW) Power	Y132S2-2 7.5	Y160M-4B3 11.0	Y180L-4B3 22.0	Y225S-4B3 37.0
鼓风机 Forced draft fan	型号 Model	4-72-11NO:3.2A左225°	4-72-11NO:3.6A右315°	T4-72NO:4A右315°	GG6-1右225°	
	风量(m³/h) Flow rate	1630-3600	2664-5268	3742-7226	12000-7000	
	风压(Pa) Wind pressure	650-1040	986-1578	1275-2036	1442-2109	
	转速(r/min) Rotation speed	2900	2900	2900	1450	
	电动机 Electric motor	型号 Model 功率(kW) Power	Y90L-2 2.2	Y100L-2 3.0	Y132S1-2 5.5	Y132M-4 7.5
二次引风机 Second draft fan	型号 Model	/	GG0.5-15右90°	GG1-15右90°	GG2-1	
	风量(m³/h) Flow rate	/	1906	1765	3000	
	风压(Pa) Wind pressure	/	1321	2800	2130	
	电动机 Electric motor	型号 Model 功率(kW) Power	/	YL100L-2 1.5	YL100L-2 3.0	YL100L-2 3.0
给水泵 Feed Water pump	型号 Model	1W2.4-10.5	1½GC-5×5	1½GC-5×7	DG6-25×7	
	转速(r/min) Rotation speed	2900	2950	2950	2950	
	扬程(m) Lift	105	115	161	175	
	电动机功率(kW) Motor power	2.2	7.5	7.5	7.5	
调速箱 Governor	型号 Model	ZW-766A	GL-5P	GL-5P	GL-10P	
	电动机 Electric motor	型号 Model 功率(kW) Power	YD90L-8/4 0.75	YCT100-4A 0.75	YCT100-4A 0.75	YCT112-4B 1.1
	转速(r/min) Rotation speed	1035~2070	1875~18750	1875~18750	1875~18750	
出渣机 Ash extractor	型号 Model	CZX-3.1	CZX-3.1	CZX-3.1	CZX-4.0	
	电动机 Electric motor	型号 Model 功率(kW) Power 转速(r/min) Rotation speed	Y90L-6 1.1 960	Y90L-6 1.1 960	Y90L-6 1.1 960	Y100L-6 1.5 960

说明：1. 表中水泵及外形尺寸数据为★号锅炉；2. 最终数据以蓝图为准。

Note: 1. The date of water pump and overall dimension in this form belong to the boiler model marked ★; 2. The final data is subject to the blueprint.

SZL系列生物质卧式蒸汽、热水锅炉参数表

PARAMETER OF SZL SERIES BIOMASS HORIZONTAL TYPE STEAM & HOT WATER BOILER

参数项目 Item	锅炉型号 Model	* SZL6-1.25-M(组) SZL6-1.60-M SZL6-2.45-M SZL4.2-1.0/115/70-M					
		* SZL8-1.25-M SZL8-1.60-M SZL8-2.45-M SZL5.6-1.0/115/70-M SZL5.6-1.25/130/70-M	* SZL10-1.25-M SZL10-1.60-M SZL10-2.45-M SZL7.0-1.0/115/70-M SZL7.0-1.25/130/70-M	* SZL20-1.25-M SZL20-1.60-M SZL20-2.45-M SZL14-1.0/115/70-M SZL14-1.25/130/70-M	* SZL30-1.25-M SZL30-1.60-M SZL30-2.45-M SZL21-1.0/115/70-M SZL21-1.25/130/70-M		
额定蒸发量/额定供热量(t/h/MW) Rated evaporation capacity		6/4.2	8/5.6	10/7.0	20/14	30/21	
工作压力(MPa) Pressure		1.25/1.6/2.45/1.0	1.25/1.6/2.45/1.0/1.25	1.25/1.6/2.45/1.0/1.25	1.25/1.6/2.45/1.0/1.25	1.25/1.6/2.45/1.0/1.25	
蒸汽温度/额定出水温度(°C) Steam temperature / Rated output water temperature		194/204/225/115	194/204/225/115/130	194/204/225/115/130	194/204/225/115/130	194/204/225/115/130	
给水温度/回水温度(°C) Feedwater/return water temperature		20/70	20/70	20/70	20/70	20/70	
受热面积(m²) Heating area	本体 Proper	24.5	26.1	23.4	61.5	109.21	
	辐射 Radiation						
	对流 Convection	119.0	184.0	227.9	346.2	549.8	
省煤器(m²) Economizer		130.8	130.8	244.16	472.0	330.4	
炉排面积(m²) Effective area of grate		7.62	10.5	11.8	20.8	28.1	
适用燃料 Available Fuel	生物质 Biomass 应用基低位发热值(kJ/kg) Low heating value	生物质成型颗粒燃料/Biomass particle fuel 16240					
锅炉燃料消耗量(kg/h) Fuel consumption		1122	1488	1860	3600	4340	
锅炉热效率(%) Thermal efficiency		82.8	83.2	83.2	85.8	86.0	
最大运输重量(t) Weight of biggest part for transportation		21	25	28	30	31	
最大运输尺寸L×W×H(m) Overall dimension of boiler assembled		7.0×2.7×3.5	6.9×3.2×5.3	7.9×3.3×3.5	11.0×3.2×3.5	9.9×3.3×3.6	
引风机 Induced draft fan	型号 Model	GY6-1 右0°	10TY-9.5D右0°	10TY-9.5D右8	Y5-47NO:12.4D左0°	Y5-47 13.5D	
	风量(m³/h) Flow rate	12000-24000	27045-31554	30000	36762-69347	71830	
	风压(Pa) Wind pressure	3980-4245	3895-3932	4030-4120	2824-3874	4370	
	转速(r/min) Rotation speed	1450	1450	1450	1480	960	
	电动机 Electric motor	型号 Model 功率(kW) Power	Y200L-4 37	Y250M-4 55	Y250M-4 55	Y315S-4 110	Y315M-4B3 132
鼓风机 Forced draft fan	型号 Model	GG6-1 右225°	10TG8.1D右225°	10TG8.1D右225°	G4-73NO:9D右225°	G4-73-11 10D	
	风量(m³/h) Flow rate	12000-7000	14840-16281	15012.2	23003-32079	41200	
	风压(Pa) Wind pressure	1442-2109	3151-2843	2241.6	2559-2668	3270	
	转速(r/min) Rotation speed	1450	1450	960	1450	1450	
	电动机 Electric motor	型号 Model 功率(kW) Power	Y160M-4B3 11	Y160L-4 15	Y160L-6 15	Y200L-4 30	Y250M-4 55
二次引风机 Induced draft fan	型号 Model	GG2-1	GG2-1	GG2-15 4A右90°	GG6-15 右0°	GG10-1	
	风量(m³/h) Flow rate	3000	3370	4259	9000	15000	
	风压(Pa) Wind pressure	2130	1960	1984	2942	2470	
	电动机 Electric motor	型号 Model 功率(kW) Power	YL100L-2 3	YL100L-2 3	Y112M-2 4	Y160M-4 11	Y160M-4 15
给水泵 Feed Water pump	型号 Model	DG6-25×6	DG12-25×7	DG12-25×7	DG25-30×6	DG46-30×6	
	转速(r/min) Rotation speed	2950	2950	2950	2900	2900	
	扬程(m) Lift	150	175	175	180	180	
	电动机功率(kW) Motor power	7.5	15	15	30	37	
调速箱 Governor	型号 Model	GL-10P/II	GL-16P	GL-16P	GL-20PW/II	GL-30P	
	电动机 Electric motor	型号 Model 功率(kW) Power	YCT112-4B 1.1	YCT132-4A 1.5	YCT132-4A 1.5	JZTY22-4 2.2	YCT160-4A 3.0
	转速(r/min) Rotation speed	1875~18750	1875~18750	1875~18750	1875~18750	1875~18750	
出渣机 Ash extractor	型号 Model	CZX-4	CZX-4.6	CZX-4.6	GBL-20	GBL-30	
	电动机 Electric motor	型号 Model 功率(kW) Power 转速(r/min) Rotation speed	Y100L-6 1.5 960	Y100L-6 1.5 960	Y100L-6 1.5 960	Y100L-6 2.2 960	Y100L-6 3.0 960

说明：1. 表中水泵及外形尺寸数据为★号锅炉；2. 最终数据以蓝图为准。

Note: 1. The date of water pump and overall dimension in this form belong to the boiler model marked ★; 2. The final data is subject to the blueprint.