



A stylized green globe composed of various shades of green triangles, with a small green sprout with two leaves emerging from the top left. The globe is positioned on the right side of the image, and a soft shadow is cast beneath it.

ENERGY CONSERVATION
EFFICIENCY
ENVIRONMENTAL PROTECTION

节能 高效 环保

放眼未来 永不止步

致力于为客户提供最具价值的
锅炉设备及服务

WITH AN EYE TOWARD THE FUTURE . KEEP MOVING

Committed to providing customers with the most valuable boiler
equipment and services



郑锅股份荥阳新厂区效果图
Rendering Of New Plant in Xingyang, Zhengzhou

领导关怀

LEADERSHIP CONCERN



原河南省省长李成玉、副省长史济春
在公司车间视察工作

The former governor of Henan province Mr. Li Chengyu and the former vice governor Mr. Shi Jichun inspected in the workshops.



原河南省委常委、常务副省长李克
在公司技术中心视察工作

The former governor of Henan province Mr. Li Chengyu and the former vice governor Mr. Shi Jichun inspected in the workshops.



原河南省委常委、郑州市委书记王文超
在公司车间调研

The former member of the standing committee of Henan province, the secretary of the Zhengzhou city, Mr. Wang Wenchao researched in the workshop.



郑州市市委常委、统战部部长王跃华及高新区党工委书记赵书贤等领导莅临郑锅调研

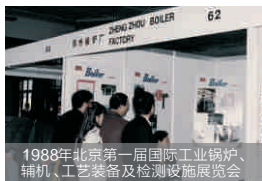
The standing committee of Zhengzhou city, the minister of the United Front Work Department of Zhengzhou city, Mr. Wang Yaohua and the secretary of the High and New Technology development District, Zhengzhou Mr. Zhao Shuxian researched in the workshop.

中西部规模最大的 工业锅炉和电站锅炉研发、制造基地

The largest R&D and manufacturing base of industrial boiler and power plant boiler in the central and western regions of China.



1985年法国专家帕普先生来访



1988年北京第一届国际工业锅炉、辅机、工艺装备及检测设施展览会



郑锅集团旗下拥有郑州锅炉股份有限公司、郑州郑锅容器有限公司、郑州锅炉辅机有限公司、郑州郑锅安装工程有限公司多家子公司，集成设计、制造、安装、调试、改造、维修等多元化服务，为客户提供DB、EPC、EPCM、EP等多种模式的工程总包方案，是国内极具竞争力的锅炉设备和压力容器供应商

ZBG has a number of subsidiaries: Zhengzhou Boiler Co., Ltd., Zhengzhou Zhengguo Vessel Co., Ltd., Zhengzhou Boiler Auxiliary Co., Ltd., Zhengzhou Zhengguo Installation Engineering Co., Ltd. etc. ZBG is a leading boiler equipment and pressure vessel manufacturer, that specializes in designing, manufacturing, installation, debugging, retrofitting, maintenance and other services, providing DB, EPC, EPCM, EP and other solutions for clients.



1945 1945 年，郑锅前身——义和铁工厂成立
In 1945, Predecessor of ZBG -- Yihetie Factory



1965 1965 年，郑州锅炉厂从发电设备厂独立
In 1965, Zhengzhou Boiler Factory was independent from Power Equipment Plant.

1984 1984 年，郑州锅炉厂取得首批锅炉设计制造许可证
In 1984, Zhengzhou Boiler Factory was listed in the first batch of Boiler Design & Manufacture Licenses.



1988 1988 年，郑州锅炉厂兼并郑州拖拉机配件厂
In 1988, Zhengzhou Tractor Parts Factory merged with Zhengzhou Boiler Factory.



1997 1997 年，郑州锅炉厂兼并郑州第二锅炉厂
In 1997, Zhengzhou Second Boiler Factory merged with Zhengzhou Boiler Factory.



1998 1998 年，郑州锅炉厂取得 B 级锅炉设计制造许可证
In 1998, Zhengzhou Boiler Factory obtained B Class Boiler Design & Manufacture License.



2001 2001 年，公司首次取得中华人民共和国锅炉制造 A 级许可证
In 2001, Zhengzhou Boiler Factory obtained A Class Boiler Design & Manufacture License for the first time.



2003



2003年，郑州锅炉厂改制为郑州锅炉有限责任公司，新厂建成搬迁至郑州市高新技术产业开发区，厂区占地面积17万平方米

In 2003, Zhengzhou Boiler Factory was transformed into Zhengzhou Boiler LLC. and moved into new factory in Zhengzhou Hi-tech Development District, covering 170,000 square meters.

2005



2005年，郑锅集团成立控股子公司郑州锅炉容器有限公司、郑州锅炉辅机有限公司、郑州锅炉安装有限公司、在郑州荥阳工业开发区占地320亩，企业规模进一步扩大

In 2005, ZBG founded a series of companies as its holding subsidiaries, such as Zhengzhou Boiler Vessel Co., Ltd., Zhengzhou Boiler Auxiliaries Co., Ltd., Zhengzhou Boiler Installation Co., Ltd. Etc. Meanwhile, a new plant covering an area of 320 mu was built in Industrial Development Zone of Xingyang, Zhengzhou. Thus the scale of ZBG was greatly enlarged.

2006



2006年，公司首次取得A1级压力容器制造许可证

In 2006, company obtained A1 Class Pressure Vessel Design & Manufacture License for the first time.

2008

2008年，公司由有限公司改制为股份有限公司
In 2008, company was restructured as a limited company.

2013

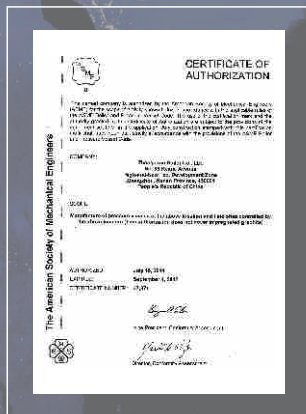
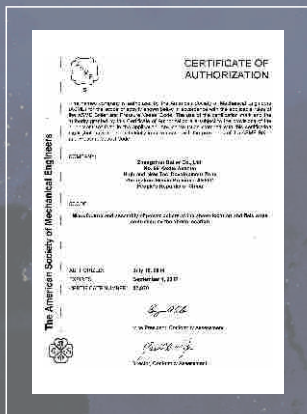
2013年，电子商务中心成立
In 2013, The Electronic Commerce Center was founded in 2013 year.

2016



2016年，郑锅股份荥阳新厂区


In 2016, ZBG's New Plant in Xingyang.




锅炉能效测试报告

Boiler energy efficiency test report

	中国特种设备检测研究院 国家锅炉压力容器质量监督检验中心	报告编号: 15EF014-NG01
测试报告统一编号: CH2015X0010		测试机构编号: TSNCAD001
		
No. CNAS L0694	(2012) 国认监认字(157)号	2012001127Z
锅炉能效测试报告		
锅炉型号: QXX116-1.6/30/70-H		
制造单位: 郑州锅炉股份有限公司		
委托单位: 郑州锅炉股份有限公司		
测试地点: 黑龙江省哈尔滨市捷能热力电站有限公司		
测试日期: 2015-02-16		
中国特种设备检测研究院 国家锅炉压力容器质量监督检验中心		
2012年11月颁布 3 / 10页		

	中国特种设备检测研究院 国家锅炉压力容器质量监督检验中心	文件号: QR-3-B23-02 报告编号: 15EF014-NG01			
一、 锅炉能效测试综合报告					
锅炉型号	QXX116-1.6/30/70-H	锅炉产品编号	160984004		
锅炉名称	116MW 流化床锅炉	锅炉产品编号	1609841201		
锅炉出口介质	热水	额定出力	116MW	设计热效率	90.12%
额定压力	1.6MPa	设计燃料	褐煤	排烟温度	135.00℃
出口介质温度	130.00℃	燃烧方式	流化床燃烧	省煤器	有
进口介质温度	70.00℃	燃烧设备	燃烧器化压	空气预热器	有
制造单位	郑州锅炉股份有限公司	制造许可证编号	TS210711-2015		
设计文件编号	河南省特种设备协会	设计文件编号	TSW001HA01-4387		
测试依据	1. TSG 0002-2010《锅炉节能技术监督管理规程》； 2. TSG 0003-2010《工业锅炉能效测试与评价规则》； 3. 双方签订的合同中有技术要求。				
测试范围	额定产品热效率测试	测试方法	2次反平衡		
测试条件	锅炉出力	114.66MW	锅炉热效率	91.98%	
	排烟温度	126.93℃	排烟处过量空气系数	1.22	
测试结论	在测试条件下, 锅炉排烟温度、排烟处过量空气系数符合 TSG 0002-2010《锅炉节能技术监督管理规程》要求; 锅炉产品热效率符合 TSG 0003-2010《锅炉节能技术监督管理规程》规定的锅炉产品额定工况下热效率目标值的要求。				
测试人员: 张松松, 王利					
测试负责人: 齐国利 (签字)					
报告编制: 张松松 (签字)					
报告审核: 齐国利 (签字)					
报告批准: 张松松 (签字)					
2015年03月30日					
2012年11月颁布 3 / 10页					

	中国特种设备检测研究院 国家锅炉压力容器质量监督检验中心	报告编号: 16E0019-NG01
测试报告统一编号: CH2016X0014		测试机构编号: TSNCAD001
		
No. CNAS L0694	(2015) 国认监认字(157)号	2015003329Z
锅炉能效测试报告		
锅炉型号: ZG-75/5.82-M		
制造单位: 郑州锅炉股份有限公司		
委托单位: 郑州锅炉股份有限公司		
测试地点: 内蒙古赤峰市林东镇新城热电有限责任公司		
测试日期: 2016-03-14		
中国特种设备检测研究院 国家锅炉压力容器质量监督检验中心		
2012年11月颁布 4 / 10页		

	中国特种设备检测研究院 国家锅炉压力容器质量监督检验中心	文件号: QR-3-B26-02 报告编号: 16E0019-NG01			
一、 锅炉能效测试综合报告					
锅炉型号	ZG-75/5.82-M	锅炉产品编号	750900-04		
锅炉名称	燃煤流化床锅炉	锅炉产品编号	750900-1101		
锅炉出口介质	过热蒸汽	额定蒸发量	75t/h	设计热效率	89.18%
额定压力	3.82MPa	设计燃料	褐煤	排烟温度	133℃
进口介质温度	450℃	燃烧方式	流化床燃烧	省煤器	有
进口介质	104℃	燃烧设备	流化床	空气预热器	有
制造单位	郑州锅炉股份有限公司	制造许可证编号	TS210711-2015		
设计文件编号	河南省特种设备协会	设计文件编号	TSW001HA01-2420		
测试依据	1. TSG 0002-2010《锅炉节能技术监督管理规程》； 2. TSG 0003-2010《工业锅炉能效测试与评价规则》； 3. GB/T 19184-2005《锅炉能效测试与评价规则》； 4. 双方签订的合同中有技术要求。				
测试范围	额定产品热效率测试	测试方法	2次反平衡		
测试条件	锅炉出力	74.25t/h	锅炉热效率	91.80%	
	排烟温度	140.93℃	排烟处过量空气系数	1.28	
测试结论	在测试条件下, 锅炉产品热效率达到设计值要求; 排烟处过量空气系数、排烟温度、符合 TSG 0002-2010《锅炉节能技术监督管理规程》规定的要求。				
测试人员: 齐国利, 张松松, 王利					
测试负责人: 齐国利 (签字)					
报告编制: 张松松 (签字)					
报告审核: 齐国利 (签字)					
报告批准: 张松松 (签字)					
2016年03月17日					
2012年11月颁布 4 / 10页					

发改委高效锅炉推广目录第一名

No.1 among high efficient boilers in the "Energy Efficient Boilers Promotion Directory", published by National Development and Reform Commission



附件

高效节能锅炉推广目录（第一批）

序号	锅炉型号	锅炉容量(t/h)	测试热效率	燃烧方式	制造单位	所属地区
1	QXX116-1.6/130/70-H	160 (116MW)	91.98%	流化床	郑州锅炉股份有限公司	河南省
2	HGG-116-1.6-130/70-L-HM3	160 (116MW)	91.78%	流化床	哈尔滨锅炉厂工程技术有限公司	黑龙江省
3	HGG-58-1.6-130/70-L-HM(A11)	80 (58MW)	91.70%	流化床	哈尔滨锅炉厂工程技术有限公司	黑龙江省
4	QXF116-1.6/130/70-H	160 (116MW)	90.98%	流化床	哈尔滨红光锅炉总厂有限责任公司	黑龙江省
5	QXF116-1.6/130/70-M3	160 (116MW)	90.59%	流化床	太原锅炉集团有限公司	山西省
6	QXF58-1.6/150/90-M	80 (58MW)	89.87%	流化床	太原锅炉集团有限公司	山西省
7	DHX25-1.6-A	25	89.75%	流化床	无锡太湖锅炉有限公司	江苏省
8	SHF35-1.6-A1、H	35	89.59%	流化床	广西梧州锅炉制造有限公司	广西壮族自治区
9	QXF29-1.6/130/70-H	40 (29MW)	89.56%	流化床	太原锅炉集团有限公司	山西省
10	SHX58-1.25/115/70-H	80 (58MW)	89.38%	流化床	赤峰森邦锅炉工业有限公司	内蒙古自治区
11	DHX100-1.6-A	100	89.10%	流化床	无锡太湖锅炉有限公司	江苏省

作为国内工业锅炉、大型电站锅炉技术领军者，长期以来，公司与中国科学院、清华大学、西安交通大学、华中科技大学等国内10余所知名科研机构建立了产学研合作关系，在产学研基地建设中投入巨大。在1998~2015年，郑锅共参与主导河南省市级重大科研项目15个，总体技术水平始终处于国内领先地位，并达到国际先进水平。

目前，郑锅拥有高中级研发技术人员360人，发明专利130项（含实用新型）



As the leader of industrial boiler and large-scale power plant boiler technology in China, ZBG has established long-term cooperation with more than 10 well-known research institutions , such as Chinese Academy of Sciences, Tsinghua University, Xi'an Jiaotong University, Huazhong University of Science and Technology, etc. And ZBG has devoted huge resources to the research base construction. In 1998 - 2015, ZBG was involved in and dominated 15 Henan provincial major scientific research projects. The whole technology level remains the domestic leading position, and has reached the international advanced level.

Now ZBG has more than 360 professional and technical personnel, 130 patents for invention (including utility model patents).

主要专利及科研项目

Main Patents And Research Projects

专利号 Patent Number	专利名称 Patent Name	专利类型 Patent Type
12290-12291	三旋涡内分离循环流化床锅炉 Tri-Whirlpool Inner Separation CFB Boiler	发明 Invention
88203087.6	炉排鳍片管与框架间的联接结构 The connection Structure of Grate Flake Tubes and the Frame	发明 Invention
ZL200710055054.8	燃秸秆制乙醇废渣锅炉 Straw Ethanol Slag Fired Boiler	发明 Invention
ZL201310359363.X	低氮氧化物排放的循环流化床锅炉系统 Low NOx Emissions CBF Boiler System	发明 Invention
ZL200710054785.0	掺烧吹风气的循环流化床锅炉 Mix-Burned Blow Air CFB Boiler	发明 Invention
ZL201220264311.5	一种循环流化床锅炉水冷炉顶 One kind of CFB Boiler Water Cooling Roof	实用新型 Utility Model
ZL200720089181.5	危险废弃物焚烧炉余热锅炉 Hazardous Wastes Incineration Exhausted Heat Boiler	实用新型 Utility Model
ZL200720089182.X	一种喷水式过热蒸汽减温装置 One Kind of Water Incineration Exhausted Heat Boiler	实用新型 Utility Model
ZL200820148481.0	循环流化床锅炉干式床下点火装置 Dry Type Under Bed Ignition Equipment of CFB Boiler	实用新型 Utility Model
ZI200810054785	纯低温余热发电装置 Low Temperature Waste Heat Power Generator	实用新型 Utility Model

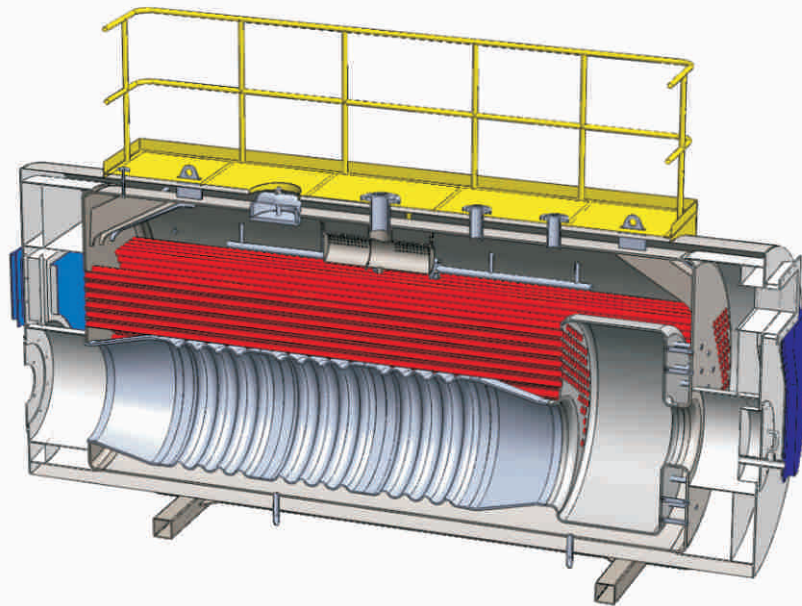
主要技术引进与合作

Main Technology Introdcion And Cooperation

合作单位 Cooperated Organizations	合作项目 Cooperated Projects
清华大学 Tsinghua University	35-480吨级节能型循环流化床锅炉合作开发 The joint development of 35-480TPH CFB Boiler
西安交通大学 Xi'an Jiaotong University	新型角管锅炉合作开发 The joint development of New Type Corner Tube Boiler
上海理工大学 Shanghai Science and Technology University	燃秸秆制酒精废料锅炉合作开发 The joint development of Straw Ethanol slag fired Boiler
中科院工程热物理研究所 Engineering Thermophysics Research Institute of Chinese Academy Of Science	130-240吨级循环流化床锅炉合作开发 The joint development of 130-240TPh CFB Boiler
德国MFU公司 MFU Company, Germany	重型链条炉排技术 Heavy Chain Grate Boiler Technology
大连易世达水泥设计院 Dalian Yishida Cement Design Institution	水泥窑纯低温余热锅炉开发 The development of Cement Kiln Low Temperature Waste Heat Boiler
临沂正大热能研究所 Linyi Zhengda Energy Research Institution	化工三废混燃余热利用技术研究 The joint development of Three Castoff Mix Burning Waste Heat Boiler

WNS系列燃油燃气锅炉

WNS SERIES OIL AND GAS FIRED BOILER



产品简介 BRIEF INTRODUCTION

WNS系列燃油燃气锅炉引进德国先进技术及制造工艺，作为世界银行GEF高效环保锅炉中标子项目，各项技术指标均已达到世界先进水平。该系列锅炉为快装锅炉，主要由锅炉本体、连接烟道、燃烧器、汽水系统、仪表、节能器、冷凝器（选配）等组成。燃烧清洁、排放无污染、操作便捷、出力充足

As the subproject of high efficient and green boiler in the World Bank's GEF Program, each technical index of WNS series oil and gas fired boiler has reached the world advanced level. WNS series boiler is fast-assembly installation boiler and it mainly consists of boiler proper, interconnecting flue, burner, steam&water system, meters, economizer and condenser (optional). It has the advantages such as clean combustion, no pollution in the emission, easy operation, high output and so on.

应用领域 APPLICATIONS

燃油燃气锅炉广泛适用于医院、学校、游泳馆、制药厂、包装厂、建材行业、食品行业、纺织印染服装行业等

WNS series boiler is mainly used in hospital, school, swimming pool, pharmaceutical factory, package plant, architectural material industry, food industry, textile dyeing and printing industry, clothing industry and other industries.



产品特点 FEATURES

- 采用大容积燃烧室设计，使燃烧更加充分，氮氧化物排放低至 $35\text{mg}/\text{m}^3$ ；
- 采用先进的波形炉胆结构，既增加了传热面积，也满足了炉胆受热后的自由膨胀；
- 烟管采用螺纹结构，强化了传热效果；
- 锅炉采用湿背式结构，全扳边对接焊缝，可靠性高，维修费用低；
- 多种保护功能确保锅炉运行安全可靠；
- 配置自控性能良好的燃烧器，实现全自动化操作

- The large combustion chamber ensures the fuel fully burned and the NO_x emission is less than $35\text{mg}/\text{m}^3$.
- Adopts advanced corrugated furnace to increase heat transfer area and satisfy the free expansion of the furnace after being heated.
- The smoke tube adopts thread structure to improve heat transfer effectiveness.
- Adopts wet-back structure with butt weld to improve the reliability and reduce the maintenance cost.
- Various protection functions ensure the boiler's safe and reliable operation.
- Equipped burner with excellent automatic control to realize full automatic performance.

| 技术参数 | Technical Parameters | 蒸汽锅炉 | Steam Boilers |

型号规格	额定蒸发量	额定蒸汽压力	额定蒸汽温度	给水温度	锅炉设计热效率	排烟温度	设计燃料	运输重量	运输尺寸
Model	Rated Steam Capacity (t/h)	Rated Steam Pressure (MPa)	Rated Steam Temperature (°C)	Feed Water Temperature (°C)	Thermal Efficiency	Exhaust Gas Temperature (°C)	Fuel Type	Shipping Weight (Kg)	Shipping Dimension (LxWxH) (mm)
WNS1	1	(0.7) (1.0) 1.25 (1.6)	(170) (184) 194 (204)	20	≥95%	≤80	天然气、 轻油、 (重油)、 Natural gas, Light oil, (Heavy oil),	4100	3650x1700x2058
WNS2	2			20				6320	3750x1900x2150
WNS3	3			20				7570	4365x1950x2242
WNS4	4			20				10800	4500x2250x2600
WNS5	5			20				12300	5000x2150x2320
WNS6	6			20				13500	5300x2380x2694
WNS8	8			20				19000	5700x2500x2876
WNS10	10			104				21000	6290x2640x3178
WNS12	12			104				26300	7360x2840x3500
WNS15	15			104				29300	7460x3230x3650
WNS20	20			104				34000	8180x3650x3970

注：技术参数如有变动, 恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

| 技术参数 | Technical Parameters | 热水锅炉 | Hot Water Boiler |

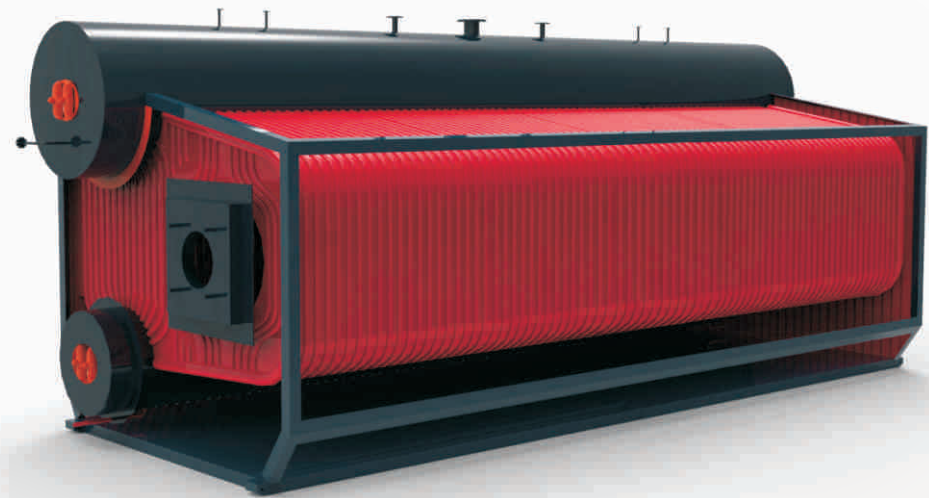
型号规格	额定热功率	额定出水压力	出水温度	回水温度	锅炉设计热效率	排烟温度	设计燃料	运输重量	运输尺寸
Model	Rated Thermal Power (MW)	Rated Outlet Water Pressure (MPa)	Outlet Water Temperature (°C)	Return Water Temperature (°C)	Thermal Efficiency	Exhaust Ras Temperature (°C)	Fuel Type	Shipping Weight (Kg)	Shipping Dimension (LxWxH) (mm)
WNS0.7	0.7	1.0	95/115	70/90	≥95%	≤80	天然气、 轻油、 (重油)、 Natural gas, Light oil, (Heavy oil),	4300	3260x1790x2200
WNS1.05	1.05							5800	3750x1900x2150
WNS1.4	1.4							5800	3750x1900x2150
WNS2.1	2.1							7200	4365x2102x2240
WNS2.8	2.8							9200	4400x2250x2600
WNS4.2	4.2							12300	5300x2380x2644
WNS5.6	5.6							14500	5600x2466x2902
WNS7	7							23000	6373x2640x3126
WNS10.5	10.5							30000	7460x3230x3650
WNS14	14							45000	9300x3330x3848

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SZS系列燃油燃气锅炉

SZS SERIES OIL AND GAS FIRED BOILER



产品简介 BRIEF INTRODUCTION

SZS型燃油燃气锅炉为双锅筒纵置式“D”型布置快组装水管锅炉，具有燃烧充分、排放无污染、操作便捷、安装方便等优点；锅炉热效率高、出力大、负荷适应性强、自动化程度高、运行安全可靠，是一种理想的高效、低耗、低污染绿色环保产品，在未来的热能装备应用领域里起到非常重要的作用

SZS series oil and gas fired boiler is a packaged water tube boiler with longitudinal type double drums and D-shape layout. It has lots of advantages such as sufficient burning, no pollution in the emission, convenient operation, easy installation etc. Besides, the SZS series boilers have the features such as high thermal efficiency, high output, better load adaptability and high automation level as well as safe and reliable operation. It is an ideal environmental protection product with high efficiency, low energy consumption and less pollution which will play an important role in the application field of thermal energy equipment in future.

应用领域 APPLICATIONS

SZS系列燃油燃气锅炉广泛适用于集中供热，工业蒸汽与热水供应等
SZS series oil&gas boiler is mainly used in centralized heating, industrial steam and hot water supply.



产品特点 FEATURES

- “D”型双锅筒纵置布置，结构紧凑，占地面积小，火焰充满度好，利于燃料的低氮燃烧和烟气的低氮排放，NO_x低至35mg/Nm³以下；
- 锅炉采用全自动燃烧器，并配备全套安全保护装置，以确保锅炉的自动安全运行；
- 全封闭焊接结构的气密性内护板，炉墙密封性好；
- 受热面面积大，设计有足够大的汽水空间，保证锅炉参数稳定；
- 尾部布置有烟气冷凝回收装置，能有效控制排烟温度，锅炉热效率高；
- 采用高热阻材料作为绝热层，保温性能良好。锅炉外层采用压制护板，外观美观、漂亮；
- 采用快装结构，整台锅炉设计在钢性很强的底座上，安装运输方便

-
- D-type Double-Drum style with compact structure, less occupied area, good flame fullness which is better for low nitrogen combustion and low nitrogen emission, the density of NO_x can be decreased to less than 35mg/Nm³.
 - With totally automatic burner and full set of safety protection device, thus automatic safety operation can be guaranteed.
 - Gas-tightness inner guard board with totally-enclosed welding structure which ensures a good sealing performance of the furnace wall.
 - The heat exchange surface area of the boiler and the space for water and steam are big enough to make sure the boiler parameters are stable.
 - The rear section of such boiler is equipped with condensing and recovery device which can effectively control exhaust gas temperature so as to improve boiler thermal efficiency.
 - Adopts the adiabatic layer with high heat resistance material which brings a good thermal insulation property; the outer shell of the boiler adopts pressed guard board which makes the boiler looks beautiful.
 - Adopts package structure; the whole boiler is fixed on the base with strong rigidity. Such structure provides convenience for installation and transportation.
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| 技术参数 | Technical Parameters | 饱和蒸汽锅炉 | Saturated Steam Boilers |

型号规格	额定蒸发量	额定蒸汽压力	额定蒸汽温度	给水温度	锅炉设计热效率	排烟温度	设计燃料	运输重量	外形尺寸
Model	Rated Steam Capacity (t/h)	Rated Steam Pressure (MPa)	Rated Steam Temperature (°C)	Feed Water Temperature (°C)	Thermal Efficiency	Exhaust Gas Temperature (°C)	Fuel Type	Shipping Weight (Kg)	Shipping Dimension (LxWxH) (mm)
SZS6	6	1.25	194	104	≥95%	≤80	天然气、轻油、（重油）、（焦炉煤气） Natural gas, Light oil, (Heavy oil), (Blast furnace gas)	26000	5980x3035x3320
SZS10	10							37000	7200x3280x3307
SZS15	15							34000	9000x3280x3307
SZS20	20							38000	9280x3600x3618
SZS25	25							45000	10850x3640x3930
SZS30	30							52000	10450x3890x4210
SZS35	35							58000	12370x4280x4210

注：技术参数如有变动，恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

| 技术参数 | Technical Parameters | 过热蒸汽锅炉 | Superheated Steam Boilers |

型号规格	额定蒸发量	额定蒸汽压力	额定蒸汽温度	给水温度	锅炉设计热效率	排烟温度	设计燃料	运输重量	运输尺寸
Model	Rated Steam Capacity (t/h)	Rated Steam Pressure (MPa)	Rated Steam Temperature (°C)	Feed Water Temperature (°C)	Thermal Efficiency	Exhaust Gas Temperature (°C)	Fuel Type	Shipping Weight (Kg)	Shipping Dimension (LxWxH) (mm)
SZS6-1.25/350-Y.Q	6	1.25	350	104	≥95%	≤80	天然气、轻油、（重油）、（焦炉煤气） Natural gas, Light oil, (Heavy oil), (Blast furnace gas)	27000	5980x3035x3320
SZS10-1.25/350-Y.Q	10							29000	7200x3280x3307
SZS15-1.25/350-Y.Q	15							46000	9000x3280x3307
SZS20-1.25/350-Y.Q	20							26000	9280x3600x3618
SZS25-1.25/350-Y.Q	25							60000	10850x3640x3930
SZS30-1.25/350-Y.Q	30							64000	10450x3890x4210
SZS35-1.25/350-Y.Q	35							64000	10450x3890x4210

注：技术参数如有变动，恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

| 技术参数 | Technical Parameters | 热水锅炉 | Hot Water Boilers |

型号规格	额定热功率	额定出水压力	出水温度	回水温度	锅炉设计热效率	排烟温度	设计燃料	运输重量	运输尺寸
Model	Rated Thermal Power (MW)	Rated Outlet Water Pressure (MPa)	Outlet Water Temperature (°C)	Return Water Temperature (°C)	Thermal Efficiency	Exhaust Gas Temperature (°C)	Fuel Type	Shipping Weight (Kg)	Shipping Dimension (LxWxH) (mm)
SZS17.5-1.6/130/70-Y、Q	17.5	1.6	130	70	94%	110	天然气、轻油、（重油）、（焦炉煤气） Natural gas, Light oil, (Heavy oil) , (Blast furnace gas)	53000	10850x3640x3930
SZS58-1.6/130/70-Y、Q	58				95%	120		Bulk	Bulk

注：技术参数如有变动，恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

真空热水锅炉 VACUUM HOT WATER BOILER



产品简介 BRIEF INTRODUCTION

真空热水锅炉由于锅炉整体是在负压状态下运行，故绝对安全，被誉为永不发生爆炸的锅炉。

炉内的热媒介（炉水），在锅炉运行的全过程中，不进、不出、不增、不减，只封闭在锅炉的真空室内，在锅炉的传热管与热交换器之间传递热量。

炉内的热媒介是完全脱氧的纯净水，无腐蚀，无水垢，使用锅炉寿命长达20多年甚至更长；

同时还具有安装、保养方便的特点，符合环保要求

Vacuum hot water boiler is absolutely safe and is praised as the boiler without explosion forever because it operates in the negative pressure.

During the operation process of the boiler, the hot media (water in boiler) doesn't make any change; it only stays in the vacuum chamber and transfers heat between heat-exchanging tube and heat exchanger. The hot media in the furnace is completely deoxy purified water, so there is no corrosion and incrustation which make boiler's useful life can reach up to twenty years or even longer. Besides, it has easy installation, convenient maintenance and other features which meet the environmental requirements.

应用领域 APPLICATIONS

真空热水锅炉广泛适用于中央空调用水、卫生热水、工艺热水

Vacuum hot water boiler is widely used for supplying water for central air conditioning, sanitary hot water, hot water processing, etc.



产品特点 FEATURES

- 真空相变锅炉因其介质流通系统的压力低于大气压力，机组运行时的内部绝对压力为0.02~0.08MPa，机组处于真空状态，安全性极高，不会发生爆炸；
 - 锅炉内部不发生结垢，增加了锅炉使用的寿命，是一般锅炉寿命1.5~2倍。换热器部分采用不锈钢管制造，耐腐蚀，设计使用寿命在20年以上；
 - 三回程结构，独特的湿背回燃室结构，整机采用优质硅酸铝保温，使机组热损失降至极限，整机热效率达到92%以上；
 - 一台锅炉（或机组）可配置多个换热器，供应不同温度、不同用途的热水，如中央空调用水、卫生热水、工艺热水等
-
- The pressure of the medium circulation system is lower than the atmospheric pressure and the inner absolute pressure is from 0.02 to 0.08MPa when the boiler is in the operation condition, which keeps the unit in the vacuum status, so that the boiler runs safely without explosion.
 - There is no incrustation inside the boiler to increase boiler's service life which is 1.5 to 2 times than ordinary boilers. The heat exchanger is made of stainless steel tube which is corrosion resistant with the lifetime more than 20 years.
 - Such series boiler adopts three pass structure and wet back reversal chamber structure. Besides, it uses high-quality aluminum silicate to preserve heat to make the heat loss of the machine fall down to limit value and the overall thermal efficiency up to 92%.
 - One boiler can be equipped with several heat exchangers for supplying hot water with different temperature and different application. For example, the water for central air conditioning, sanitary hot water, hot water processing, etc.
-

| 技术参数 | Technical Parameters |

型号 规格 Model	水 容量 Water Volume (l)	额定 热功率 Rated Thermal Power (MW)	额定出 水压力 Rated Outlet Water Pressure (MPa)	出水 温度 Outlet Water Temperature (°C)	回水 温度 Return Water Temperature (°C)	设计 燃料 Fuel Type	运输 重量 Shipping Weight (Kg)	运输 尺寸 Shipping Dimension (LxWxH) (mm)
ZWNS0.35-85/60-Y、Q	1340	0.35					2335	3025x1360x1710
ZWNS0.48-85/60-Y、Q	2000	0.48					2640	3025x1360x1720
ZWNS0.6-85/60-Y、Q	2400	0.6					2932	3445x1470x1806
ZWNS0.7-85/60-Y、Q	2500	0.7					3529	3445x1470x1846
ZWNS1.05-85/60-Y、Q	3250	1.05					5104	4060x1580x1976
ZWNS1.4-85/60-Y、Q	3950	1.4				天然气、 轻油、	5597	4145x1830x2220
ZWNS1.75-85/60-Y、Q	4920	1.75	-0.02	85	60	Natural gas & light oil	6182	4470x1780x2160
ZWNS2.1-85/60-Y、Q	5950	2.1					6947	4510x2000x2398
ZWNS2.8-85/60-Y、Q	7430	2.8					8578	5070x2100x2550
ZWNS3.5-85/60-Y、Q	9250	3.5					11245	5395x2300x2785
ZWNS4.2-85/60-Y、Q	10340	4.2					12061	6000x2300x2785
ZWNS5.6-85/60-Y、Q	12167	5.6					14960	6000x2666x3102
ZWNS7-85/60-Y、Q	13986	7					19940	6373x2840x3224

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燃油燃气电站锅炉 GAS AND OIL FIRED POWER PLANT BOILER



产品简介 BRIEF INTRODUCTION

燃油燃气电站锅炉实现了燃烧充分、排放无污染、操作便捷、安装方便等优点；
该类型锅炉热效率高、出力大、负荷适应性强、自动化程度高、操作方便、运行安全可靠，
是一种理想的高效、低耗、低污染绿色环保产品

Gas and oil fired power plant boiler has lots of advantages such as sufficient burning,
no pollution in the emission, convenient operation, easy installation and so on.
Such series boiler has the features such as high thermal efficiency,
high output, better load adaptability, high degree of automation,
easy operation as well as safe and reliable operation.
It is an ideal environmental-protection green product with high efficiency,
low energy consumption and less pollution.

应用领域 APPLICATIONS

燃油燃气电站锅炉主要应用于电厂发电等。
Gas and oil fired power plant boiler is mainly used for large-scale power station, etc.



产品特点 FEATURES

- 采用机电一体化控制设备和PLC联合控制方式，以先进的PLC为控制系统的“中央处理器”，控制系统通过触摸屏进行操作，使锅炉自动化控制程度和运行可靠程度大大提高，操作更加简便直观；
- 锅炉燃烧室设计合理，完全适应城市煤气、天然气、轻柴油、重油等多种燃料，燃料在炉膛内微正压燃烧，燃烧完全，烟气污染物少，锅炉的烟气黑度、烟尘黑度、浓度、噪音等,在生产使用中做到了燃烧清洁、排放无污染、操作便捷、出力充足

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- It adopts mechatronics control equipment and (PLC) combined control mode. It uses the advanced programmable logic controller (PLC) as the "CPU" of control system. The control system is operated through the touch screen to greatly improve the boiler's automatic control level and operation reliability so that the operation is more simple and convenient.
 - The reasonable design for the combustion chamber of the boiler completely adapts to city gas, natural gas, light diesel oil, heavy oil and other fuels. The fuel is completely burned with micro-positive pressure in the furnace. There is little flue gas pollutant produced during the combustion. The blackness of the boiler's flue gas and smoke dust, concentration, noise and other technical index of the boiler meet national environmental requirements. It realizes the goal of clean combustion, no pollution in the emission, easy operation, high output.
-



| 技术参数 | Technical Parameters |

型号 规格	额定 蒸发量	额定蒸 汽压力	额定蒸 汽温度	给水 温度	设计 燃料
Model	Rated Steam Capacity (t/h)	Rated Steam Pressure (MPa)	Rated Steam Temperature (℃)	Feed Water Temperature (℃)	Fuel Type
DHS25-2.5/400-Q	25	2.5	400	105	重油、轻油、 天然气、 高炉煤气、 焦炉煤气、 液化石油气、 干油、渣油、 炼油干气 Heavy oil & Light oil & natural gas & Coke oven gas & blast furnace gas & liquefied petroleum gas & Dry oil & residual oil Refinery dry gas
DHS30-3.0/400-Q	30	3.0	400	105	
DHS35-3.0/400-Q	35	3.0	400	105	
SHS20-2.5/400-Q	20	2.5	400	105	
SHS30-3.82/249-Q	30	3.82	249	105	
SHS35-3.0/400-Q	35	3.0	400	105	
ZG-20/3.82-Q	20	3.82	450	105	
ZG-20/4.2-Q	20	4.2	400	105	
ZG-25/3.82-Y、Q	25	3.82	450	105	
ZG-35/3.82-Y、Q	35	3.82	450	105	
ZG-45/3.82-Y、Q	45	3.82	450	150	
ZG-60/3.82-Q	60	3.82	450	105	
ZG-65/3.82-Q	65	3.82	450	105	
ZG-75/10.5-Q	75	10.5	510	110	
ZG-75/3.82-Q	75	3.82	450	105	
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SZL系列链条炉排锅炉

SZL SERIES CHAIN GRATE BOILER



产品简介 BRIEF INTRODUCTION

SZL系列链条炉排锅炉效率高、超负荷能力强、燃料种类适应性广，适宜燃烧成型生物质燃料，也可以使用燃煤进行生产，被誉为当代国内同类产品最佳设计方案，具有世界先进水平。该锅炉主要由上下锅筒、对流管束、水冷壁管、下降管和集箱所组成，上下锅筒纵置式布置，燃烧设备采用链带式链条炉排，用无级变速装置驱动。锅炉本体由纵置的上、下锅筒和对流管束组成。燃烧室中布置 $\Phi 51$ 管子组成水冷壁，上锅筒内装有汽水分离和连续排污装置；下锅筒内装有定期排污装置，以保证蒸汽品质。配备连续自动给水装置，保证锅炉安全运行，锅炉尾部布置省煤器

SZL series biomass chain grate boilers with high efficiency, strong overload capacity and various fuel adaptability (biomass pallet or coal), are well known as the best design among contemporary domestic similar products and have reached the world's advanced level. The boiler is mainly composed of upper and lower drums, convection tubes, water-cooling wall tubes, down pipes and headers. The upper and lower drums are arranged longitudinally and with belt type chain grate as its combustion equipment and non-polar speed-changing device drivers. The boiler proper is composed of upper and lower longitudinal drums and convection tubes. With the arrangement of the $\Phi 51$ pipes in the combustion chamber as the water-cooling wall, water-steam separation device and continuous sewage device in the upper drum and periodical sewage device in the lower drum for assure steam quality. Equipped continuous automatic feeding water device for making sure that the boiler can be safely operated. The economizer is laid at the end of the boiler.

应用领域 APPLICATIONS

SZL系列生物质链条炉排锅炉广泛适用于发电，集中供热，工业蒸汽与热水供应等
SZL series biomass chain grate boiler is mainly used in power plant, centralized heating, industrial steam and hot water supply.



产品特点 FEATURES

- 将用于电站锅炉的膜式水冷壁结构应用于组装锅炉，其优点在于传热面积大、传导效果好、热损失低、气密性好、炉墙不变形、不漏灰；
 - 炉膛前、后水冷壁管向下延伸至炉排上部形成前、后拱，增加了炉膛辐射受热面，超负荷能力更强；前后拱以水冷壁管为骨架并用高铝水泥浇注而成，避免出现断裂、拱塌的弊病，延长了拱的使用寿命；
 - 炉排长度比国内同型号产品加长，延长了燃料在炉膛中燃烧时间，使煤的燃烧充分，降低了炉渣含碳量；增大了炉排有效面积，锅炉超负荷能力明显增强；
 - 沿炉排纵向分设六个独立风室，各风室间均有独立的调风装置可分别调节各风室的风量大小，以达到最佳调节燃烧效果
-
- By adopting the water-cooling system in packaged boilers which is usually used in power plant boilers, the boiler can achieve large heat transfer area, high heat transfer efficiency, low heat loss, good air tightness, and no distortion or dust leakage of the brickwork.
 - The front and back water-cooling wall tubes stretch themselves to the upper side of the chain grate, which increases the heating surface and enhance overload capacity. The frames of the front and the rear arch are made of water-cooling tube wall, together with high-alumina cement, which can avoid the defects of the cracking and collapsing of the arch and extend its lifespan.
 - The grate length is longer than other similar type domestic products. In this way, the combustion time of the fuel in the furnace is extended and the fuel combustion is more sufficient and the carbon content in the slag is decreased. Meanwhile, the actual heating surface of the grate is increased and the overload capacity is remarkably enhanced.
 - There are six independent wind chambers arranged lengthways and each chamber has an independent air adjuster, which can respectively adjust the air volume in each chamber so as to achieve the best combustion effect.
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DHL系列角管链条炉排锅炉

DHL SERIES CORNER TUBE CHAIN GRATE BOILER



产品简介 BRIEF INTRODUCTION

DHL系列角管链条炉排燃煤锅炉引进GEF项目的技术，并在国内外角管锅炉产品和技术研究的基础上，根据我国链条炉排的技术发展特点和市场需求进行自主创新设计，适宜燃烧成型生物质燃料及散料，也可以使用燃煤进行生产，是具有水循环可靠、高效燃烧、低污染排放的大容量层燃链条炉排锅炉节能产品，操作简单，运行可靠，年运行时可达8000小时以上

DHL series corner tube chain grate biomass boiler adopts GEF program's technology, Based on the domestic and foreign technical research, according to the technical development characteristics and market demand of chain grate, we carried out independent innovative design so as to produce the high-capacity energy-saving chain grate boilers with advantages of reliable water cycling, efficient burning and low pollution. Such series boilers can burn not only shaped biomass pellets or bulk materials, but also coal, Easy operating and reliable running, the total operation time can be longer than 8,000 hours

应用领域 APPLICATIONS

电厂发电、集中供热，冬季供暖、工业蒸汽热水供应
Central heating supply, heat supply in winter, industrial steam and hot water supply.



产品特点 FEATURES

- 采用两项发明专利，基于高温分离的飞灰内循环流化复燃装置；
角管式锅炉旗式对流受热面复合等流速设计方法；
- 采用横梁式炉排，炉排运行阻力小；炉排片冷却效果好，故障率低；炉排漏燃料量小；
- 采用轻型炉墙结构，保温性能好，不漏灰，环境优良；
同时锅炉整体采用二次风湍动燃烧设计思路和飞灰高温分离以及飞灰内循环流化再燃技术

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- Adopting two patents: the flying dust internal cycling fluidized re-combustion device based on the high temperature separation technology; the combined design of equal flow speed for the flag type convection heating surface of corner tube boilers.
 - Adopting crossgirder grate, with less running resistance, better grate cooling effect, lower breakdown rate and less fuel leakage.
 - Light supporting wall structure which has the advantages of better insulation ability, no dust leakage and environment friendly. Besides, the boiler adopts technologies like secondary air turbulent flowing pattern, fly ash separation based on high temperature and fly ash internal cycling fluidized re-combustion.
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节能型循环流化床锅炉 ENERGY-SAVING CFB BOILER



产品简介 BRIEF INTRODUCTION

节能型循环流化床锅炉是郑州锅炉股份有限公司基于流态重构燃烧技术研发的，代表了循环流化床技术发展最新方向的产品。

它一举克服了常规循环流化床锅炉厂用电高和易磨损两个难题，厂用电至少可以降低30%，同时，有效弥补了锅炉磨损、回料装置结焦堵塞、锅炉原始排尘浓度高、排渣困难等不足，使锅炉的结构更加合理，环保性能更加优良，运行更加安全可靠。

郑锅116MW循环流化床锅炉，以91.98%的测试热效率荣获2015年中国国家发改委高效节能锅炉推广目录第一名

Energy-saving CFB boilers are researched and developed by the fluidized reconstruction combustion technology of Zhengzhou Boiler Co., Ltd., representing products of the latest direction of CFB technology development. It has directly overcome the two problems of normal CFB boilers, i. e. high electricity consumption and abrasion, thus the electricity consumption can be reduced by at least 30%. Meanwhile, it effectively makes up many shortcomings, such as boiler abrasion, coking and blocking of back feeding device, high density of boiler original dust emission, difficulty in slagging, etc., making the boiler structure more reasonable, environmental protection performance is more outstanding and the operation is much safer and more reliable. In December 2015, our 116MW CFB boiler, in terms of the testing thermal efficiency as high as 91.98%, is listed as the NO. 1 among high efficient boilers in the "Energy Efficient Boilers Promotion Directory", published by National Development and Reform Commission.

应用领域 APPLICATIONS

节能型循环流化床锅炉可广泛地应用于城市各个供暖、供热系统；
节能型循环流化床电站锅炉广泛适用于火力电厂，钢铁、水泥、煤矿行业，
余热利用发电等行业

Energy-saving CFB boilers can be widely used in different heating systems around the city, thermal power plants, industries of steel, cement, coal mining, and industries of power generation by waste heat, etc.



产品特点 FEATURES

- 节煤：产汽煤耗低，运行煤耗量降低3%以上；
- 节电：低床压运行，厂用电率低，节省风机电耗20%以上；
- 高效：燃料颗粒可循环燃烧，其燃烧效率可达97~99%，锅炉热效率87%~92%；
- 低磨损：烟气流速低，炉内物料浓度小，受热面几乎没有磨损，低维护成本，低床压运行，年运行时间可达8000小时以上；
- 低排放：采用优化的分级低温燃烧技术，SO_x、NO_x初始生成量小，NO_x低至100mg/Nm³以下，环保性能优异；
- 低阻力、不倒灰、防脱落、可更换型的钟罩式风帽，彻底解决风帽倒灰脱落问题，保证了锅炉的燃烧效率；
- 采用中心筒偏置式高效旋风分离口，确保高效分离，分离效率高达99.6%以上；
- 点火方便快捷，压火时间最长可达30个小时左右

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- Coal saving: coal consumption is low, coal consumption decreased by more than 3%; during running of the boiler.
 - Energy saving: low bed pressure running, the power consumption rate is low, saving the power consumption of the fan by more than 20%.
 - High efficiency: Fuel particles could be burned in circulation. The combustion efficiency can be as high as 97%-99%, and the boiler thermal efficiency is 87%~92%.
 - Low wear: low flow rate of the flue gas, low density of materials in the furnace, almost no wear and tear of heating surface, low maintenance cost, low bed pressure running, all of the above making the annual operating time longer than 8000 hours.
 - Low-emission: by optimized classification of low temperature combustion technology, initial generation of SO_x and NO_x is small, the density of NO_x can be decreased to less than 100mg/Nm³, outstanding performance of the environmental protection.
 - Low resistance, anti-back ash flow, falling off preventing, easy to replace the bell-covered style of air cap, completely settled the problem caused by back flow ash from air cap, and guarantee the combustion efficiency of the boiler.
 - Adopting the center tube piece of knowledge, high efficient cyclone separator ensuring the efficient separation as high as 99.6%.
 - The ignition can be more convenient and the fire-pressing time can be as long as 30 hours.
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| 技术参数 | Technical Parameters | QXX系列节能型循环流化床热水锅炉 | QXX Series Energy-saving CFB Hot Water Boilers |

型号 规格 Model	额定 热功率 Rated Thermal Power (MW)	额定热 水压力 Rated Hot Water Pressure (MPa)	额定热 水温度 Rated Hot Water Temperature (°C)	回水 温度 Return Water Temperature (°C)	设计 燃料 Fuel Type
QXX58-1.6/130/70-M	58	1.6	130	70	褐煤 Brown coal
QXX58-1.6/150/90-A	58	1.6	150	90	烟煤 Bituminous coal
QXX91-1.6/130/70-H	91	1.6	130	70	褐煤 Brown coal
QXX116-1.6/130/70-H	116	1.6	130	70	褐煤 Brown coal
QXX116-1.6/150/90-P	116	1.6	150	90	贫煤 Lean coal

注：技术参数如有变动，恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

技术参数 | Technical Parameters | DHX系列节能型循环流化床蒸汽锅炉 | DHX Series Energy-saving CFB Steam Boilers |

型号 规格 Model	额定 蒸发量 Rated Steam Capacity (t/h)	额定蒸 汽压力 Rated Steam Pressure (MPa)	额定蒸 汽温度 Rated Steam Temperature (℃)	给水 温度 Feed Water Temperature (℃)	设计 燃料 Fuel Type
DHX15-1.25-T	15	1.25	194	105	煤、烟梗 Coal, Tobacco stem
DHX20-1.25-AII	20	1.25	194	105	Ⅱ类烟煤、皮革废液 Bituminous coal, Leather liquid
DHX35-1.25/230-T	35	1.25	230	105	褐煤、酒糟 Brown coal, Distiller's grains
DHX35-1.25-W	35	1.25	194	105	无烟煤 Anthracite coal
DHX35-1.25/300-P	35	1.25	300	105	贫煤 Lean coal
DHX35-1.6-AII	35	1.6	204	105	烟煤 Bituminous coal
DHX35-2.5/400-AII	35	2.5	400	105	烟煤 Bituminous coal
DHX35-3.82-A	35	3.82	450	105	烟煤 Bituminous coal
DHX40-4.2-W	40	4.2	254	105	无烟煤 Anthracite coal
DHX45-1.6-H	45	1.6	204	105	褐煤 Brown coal
DHX50-2.5-W	50	2.5	226	105	无烟煤 Anthracite coal
DHX65-2.5/250-H	65	2.5	250	105	褐煤 Brown coal
DHX75-1.6-P	75	1.6	204	105	贫煤 Lean coal
DHX75-2.5/350-P	75	2.5	350	105	贫煤 Lean coal

注：技术参数如有变动, 恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

技术参数 | Technical Parameters | ZG系列节能型循环流化床电站锅炉 | ZG Series Energy-saving CFB Power Plant Boilers |

型号 规格 Model	额定 蒸发量 Rated Steam Capacity (t/h)	额定蒸 汽压力 Rated Steam Pressure (MPa)	过热蒸 汽温度 Superheated Steam Temperature (℃)	给水 温度 Feed Water Temperature (℃)	设计 燃料 Fuel Type
ZG-35/3.82-M	35	3.82	450	105	无烟煤 Anthracite coal
ZG-45/5.29-M	45	5.29	485	105	贫煤 meagre coal
ZG-45/3.82-M	45	3.82	450	105	烟煤 Bituminous coal
ZG-50/3.82-M	50	3.82	450	105	无烟煤 Anthracite coal
ZG-75/3.82-M	75	3.82	450	105	褐煤、烟煤、贫煤 Brown coal, Bituminous coal, meagre coal
ZG-75/5.29-M	75	5.29	485	105	烟煤 Bituminous coal
ZG-90/3.82-M	90	3.82	450	105	烟煤 Bituminous coal
ZG-110/6.5-M	110	6.5	485	105	烟煤 Bituminous coal
ZG-130/9.8-M	130	9.8	540	150	烟煤 Bituminous coal
ZG-150/5.29-M	150	5.29	485	105	贫煤 meagre coal
ZG-150/9.8-M	150	9.8	540	215	烟煤 Bituminous coal
ZG-240/9.8-M	240	9.8	540	215	褐煤 Brown coal
ZG-280/9.8-M	280	9.8	540	215	褐煤 Brown coal

注：技术参数如有变动, 恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

三旋涡内分离循环流化床锅炉

THREE VORTEX INNER SEPARATION CFB BOILER



产品简介 BRIEF INTRODUCTION

三旋涡内分离循环流化床锅炉采用新型水冷壁式三旋涡内分离技术，节能效果显著，热效率提高2%~5%，该产品旋涡分离器采用膜式壁形成分离器骨架，结构稳定、运行可靠。燃烧装置采用风帽密布，使布风均匀，流化质量均匀稳定。旋涡分离器位于炉膛上部，炉膛左侧布置回送装置。炉膛内所有终端速度小于烟气速度的小颗粒随烟气向上运动，进入旋风分离器后，大于切割粒径的颗粒被分离下来，在回料道内形成料封，再由膜式多孔半自流回送装置送到炉膛与炽热床料混合进行反复循环燃烧

The three vortex inner separation CFB industrial boiler is adopted by the new type of water-cooled wall with three vortex inner separation technology, which has a remarkable effect in energy-saving. Meanwhile the heat efficiency is increased by 2%~5%. What makes the structure stable is the adoption of membrane wall by the vortex type separator of this product, forming the skeleton of separator. The usage of densely covered air cap form by the combustion equipment makes the air flow balanced and the fluidization quality even and stable.

The vortex type separator is located at the upper side of the furnace as a integrated device.

The loop-back device is laid at the left side of the furnace. In the furnace, all small particles whose terminal speed is lower than that of flue gas will move upwards. After coming into the cyclone type separator, whose particles size is larger than the size of cutting particles diameter will be separated downwards, forming the material seal in the material-returning duct. Then they will be sent to the furnace, through the loop-back device of semi-self-flow, multi-hole and membrane type, mixed with hot-bed materials, for repetition circulating combustion.

应用领域 APPLICATIONS

三旋涡内分离循环流化床热水锅炉、蒸汽锅炉可广泛地应用于城市各个供暖、供热系统,工业用汽;
三旋涡内分离循环流化床电站锅炉广泛适用于火力电厂，钢铁、水泥、煤矿行业，发电等行业

Three vortex inner separation CFB hot water boilers and steam boilers can be widely used in all heating systems around the city. Low speed CFB power plant boilers can be widely applied to thermal power plants, industries of steel, cement, coal, and industries of power generation by waste heat, etc.



产品特点 FEATURES

- 分离器采用膜式壁形成分离器骨架，结构稳定，分离效率高，并与燃烧室和飞灰返料系统巧妙布置成一体，锅炉结构紧凑；
- 返料系统采用膜式水冷壁专利技术和壁式多孔半自流回送装置，回料均匀流畅，不堵塞；
- 分级配风低温燃烧技术，可有效减少 SO_x 、 NO_x 气体产生， NO_x 低至 $100\text{mg}/\text{Nm}^3$ 以下，环保性能出众；
- 节能型低速流态设计、多级高温分离、炉内二次提纯分离、新型耐磨材料等，有效确保各部件耐磨性的提升；
- 自动化程度高，故障率极低，维修方便，能最大限度满足用户长时间连续运行的需求

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- What makes the structure stable is the adoption of membrane wall by the whirlpool type separator of this product, forming the skeleton of separator, so that the separation efficiency is high.
The separator is also artfully laid into integration with the combustion chamber and the soot back feeding system, making the boiler structure compact.
 - The back feeding system adopts the patent technology of membrane water cooling wall and the loop-back device of semi-self-flow, multi-hole and membrane type, so that the back feeding can be even non clogging.
 - The application of adjusting air distribution and low temperature combustion technology with outstanding environmental performance can effectively reduce the generation of hazardous gas and the emission of SO_x and NO_x , the density of NO_x can be decreased to less than $100\text{mg}/\text{Nm}^3$.
 - The application of energy-saving low speed fluidization design, multi-grade high temperature separation, inner furnace twice purified separation, new type wear-resistant material, etc. effectively guarantee the improvement of abrasion resistance of different components.
 - High degree of automation, low failure rate, convenient maintenance, can satisfy the needs of the users to run the boiler continuously for a long time.
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技术参数 | Technical Parameters | SHX系列低速循环流化床蒸汽锅炉 | SHX Series Low Speed CFB Steam Boilers |

型号 规格 Model	额定 蒸发量 Rated Steam Capacity (t/h)	额定蒸 汽压力 Rated Steam Pressure (MPa)	额定蒸 汽温度 Rated Steam Temperature (°C)	给水 温度 Feed Water Temperature (°C)	设计 燃料 Fuel Type
SHX4-1.25-A	4	1.25	194	105	烟煤 Bituminous coal
SHX6-1.6-P	6	1.6	204	105	贫煤 Lean coal
SHX8-1.25-T	8	1.25	194	105	生物质颗粒 Shaped biomass pellet
SHX8-2.5-H	8	2.5	226	105	褐煤 Brown coal
SHX10-2.5/450-A	10	2.5	450	105	烟煤 Bituminous coal
SHX12-2.5-W	12	2.5	226	105	无烟煤 Anthracite coal
SHX15-2.5-A	15	2.5	226	105	烟煤 Bituminous coal
SHX20-2.5-W	20	2.5	226	105	无烟煤 Anthracite coal
SHX25-2.5-A	25	2.5	226	105	无烟煤 Anthracite coal
SHX30-2.5/400-W	30	2.5	400	105	烟煤 Bituminous coal
SHX35-2.5/400-A	35	2.78	400	105	烟煤 Bituminous coal
SHX45-1.25/300-A	40	1.25	300	105	烟煤 Bituminous coal
SHX40-2.5/400-A	45	1.25	300	105	烟煤 Bituminous coal
SHX50-1.25-H	50	2.5	300	105	褐煤 Brown coal
SHX65-1.25-A	65	1.25	194	105	烟煤 Bituminous coal
SHX75-2.5/400-A	75	1.6	250	105	烟煤 Bituminous coal

注：技术参数如有变动，恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

| 技术参数 | Technical Parameters |

| QXX系列三旋涡内分离循环流化床热水锅炉 | QXX Series Three Vortex Inner Separation CFB Hot Water Boilers |

型号 规格 Model	额定 热功率 Rated Thermal Power (MW)	额定热 水压力 Rated Hot Water Pressure (MPa)	额定热 水温度 Rated Hot Water Temperature (°C)	回水 温度 Return Water Temperature (°C)	设计 燃料 Fuel Type
QXX7-1.0/95/70-A	7	1.0	95	70	烟煤 Bituminous coal
QXX8.4-1.25/95/70-A	8.4	1.25	95	70	烟煤 Bituminous coal
QXX10.5-1.25/115/70-A	10.5	1.25	115	70	烟煤 Bituminous coal
QXX14-1.25/115/70-H	14	1.25	115	70	褐煤 Brown coal
QXX17.5-1.25/115/70-H	17.5	1.25	115	70	褐煤 Brown coal
QXX29-1.25/115/70-H	29	1.25	115	70	褐煤 Brown coal
QXX36-1.6/130/70-A	36	1.6	130	70	烟煤 Bituminous coal
QXX46-1.6/130/70-A	46	1.6	130	70	烟煤 Bituminous coal
QXX58-1.6/130/70-A	58	1.6	130	70	烟煤 Bituminous coal
QXX64-1.25/130/70-H	64	1.25	130	70	褐煤 Brown coal
QXX91-1.25/130/70-H	91	1.25	130	70	褐煤 Brown coal

注：技术参数如有变动, 恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

| Zg系列三旋涡内分离循环流化床电站锅炉 | ZG Series Three Vortex Inner Separation CFB Power Plant Boilers |

型号 规格 Model	额定 蒸发量 Rated Steam Capacity (t/h)	额定蒸 汽压力 Rated Steam Pressure (MPa)	过热蒸 汽温度 Superheated Steam Temperature (°C)	给水 温度 Feed Water Temperature (°C)	设计 燃料 Fuel Type
ZG-1.5/3.82-M	15	3.82	450	105	无烟煤 Anthracite coal
ZG-20/3.82-M	20	3.82	450	105	无烟煤 Anthracite coal
ZG-25/3.82-M	25	3.82	450	105	褐煤 Brown coal
ZG-35/3.82-M	35	3.82	450	105	烟煤 Bituminous coal
ZG-40/3.82-M	40	3.82	450	105	烟煤 Bituminous coal
ZG-45/3.82-M	45	3.82	450	105	烟煤 Bituminous coal
ZG-50/5.29-M	50	5.29	450	105	烟煤 Bituminous coal
ZG-55/3.82-M	55	3.82	450	105	褐煤 Brown coal
ZG-65/5.29-M	65	5.29	450	105	褐煤 Brown coal
ZG-75/3.82-M	75	3.82	450	105	褐煤 Brown coal

注：技术参数如有变动, 恕不另行通知。 Note : Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

余热锅炉

WASTE HEAT BOILER



产品简介 BRIEF INTRODUCTION

我公司于80年代末期致力于余热锅炉的研发和设计，针对不同行业余热锅炉的实际运行特点，结合各大科研院校先进的技术经验，我公司研发的余热锅炉，已广泛应用于化工、建材、冶金等行业。主要品种有：化工三废混燃余热锅炉、吹风气余热锅炉、碳素余热锅炉、焦化余热锅炉、玻璃窑余热锅炉、钢铁烧结及冷却机余热锅炉、危废余热锅炉、干熄焦余热锅炉、有色金属冶炼余热锅炉等

Our company was committed to developing and designing waste heat boilers in the late 1980s. Based on the actual operating characteristics of different industries waste heat boiler, combined with advanced technology and experience of major research institutions, we developed the waste heat boiler which has been widely used in chemical, building materials and metallurgical industries, etc. The main varieties are: chemical three-waste mixed combustion waste heat boiler, blown gas waste heat boiler, carbon waste heat boiler, coking waste heat boiler, glass kiln waste heat boiler, waste heat boiler of steel sintering and coolers, waste heat boiler of hazardous waste, coke dry quenching(CDQ) waste heat boiler, waste heat boiler of non-ferrous metal smelting.

应用领域 APPLICATIONS

余热发电、集中供暖
Industry cogeneration, central heating



产品特点 FEATURES

- 各部件结构紧凑，占地面积小；结构新颖，性能优越；
- 使用寿命长，运行维护简单，经济安全可靠；
- 惯性分离原理实现炉内两级气、固分离，解决了传统锅炉仅靠飞灰自然沉降，除尘效率低下，污染严重等缺点；
- 密闭式出灰装置实现烟气侧封闭和全自动清灰，解决了传统锅炉靠人工清灰效率低、劳动强度大等缺点

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- Compact structure, conformation for each part and small floor area.
 - Long service life, simple operation and maintenance, safe and reliable operation.
 - Inertial separation principle realizes gas solid separation in boiler which has overcome the defects of low efficiency of soot cleaning, heavy environmental pollution and natural soot subsidence for traditional boiler.
 - Adopts enclosed soot-removal equipment in the lower part of the ash hopper to realize side sealing of the flue gas and fully automatic soot-cleaning, which has overcome the defects of low efficiency and high intensity of the labor by using manpower to clean soot for traditional boilers.
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蒸压釜 AUTOCLAVE



产品简介 BRIEF INTRODUCTION

我公司生产的蒸压釜充分吸收了国外同类产品的优点，其制造研发水平处于国内外同行业领先水平。公司拥有国内外最先进的蒸压釜生产流水线，采用全自动化焊接，探伤检测手段先进，从而保证了蒸压釜安全可靠运行；

蒸压釜设备主要由釜体、釜盖、摆动装置支座、保温层、密封装置、管道阀门仪表、排水装置和电控箱等组成。

注重安全实用及制造细节，力争达到用户的满意

The autoclave produced by Zhengzhou Boiler Co., Ltd fully absorbs the advantages of foreign similar products, and the manufacturing and R & D level is in the industry leading level.

The company has the most advanced production line of autoclave, adopts fully automated welding and advanced flaw detection instruments, to ensure the safety and reliable operation of autoclave.

Autoclave equipment consists of kettle body, covers, supports device, thermal insulation layer, sealing device , pipes, valves, instruments, drainage and electric control box and other components.

Zhengzhou Boiler Co., Ltd focuses on safety, practical and manufacturing details, strive to achieve the user's satisfaction.



应用领域 APPLICATIONS

广泛应用于加气混凝土砌块、混凝土管桩、高强度石膏等建筑材料的蒸压养护，以及橡胶制品、木材干燥和防腐处理等需压力蒸养的生产项目

Widely used in aerated concrete block, concrete pipe pile, high curing gypsum and other building materials, as well as rubber products, wood drying, preservative treatment and other production projects that require pressure steam curing.

产品特点 FEATURES

- 釜门采用活动快开结构，并有安全联锁保护装置，避免误操作隐患;
 - 进口橡胶密封圈，安装简单，密封性好，使用寿命长;
 - 支座设计灵活，较好适应釜体热胀冷缩，保证蒸压釜的正常工作;
 - 整体配套性好，安装周期短，投资费用低
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- Autoclave door with quick open structure and safety interlock protection device for preventing misoperation problems.
 - Imported rubber sealing ring has the advantages of simple installation, good sealing performance and long service life and so on.
 - Seat design is flexible and able to adjust to the thermal expansion and cold contraction of kettle body, ensure the normal operation of the autoclave.
 - Good compatibility with the auxiliary equipment, short installation period, low investment costs.
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技术参数 | Technical Parameters

型号 规格	内径	有效 长度	工作 压力	工作 温度	设计 压力	设计 温度	工作 介质	长度	宽度	高度
Model	Internal Diameter (m)	Effective Length (m)	Working Pressure (MPa)	Working Temperature (°C)	Design Pressure (Mpa)	Design Temperature (°C)	Working Medium	Total Length (m)	Width (m)	Height (m)
FGZCS1,0-1,65xL	Φ 1.65		1.0	184	1.1	187			2.619	2.595
FGZCS1,3-1,65xL	Φ 1.65		1.3	195	1.4	198			2.619	2.595
FGZCS1,0-2,0xL	Φ 2.0		1.0	184	1.1	187			2.965	3.225
FGZCS1,1-2,0xL	Φ 2.0		1.1	188	1.2	192			2.965	3.225
FGZCS1,3-2,0xL	Φ 2.0		1.3	195	1.4	198			2.965	3.225
FGZCS1,5-2,0xL	Φ 2.0		1.5	201	1.6	204			2.965	3.225
FGZCS1,3-2,2xL	Φ 2.2		1.3	195	1.4	198			3.288	3.43
FGZCS1,5-2,2xL	Φ 2.2		1.5	201	1.6	204			3.288	3.43
FGZCS1,3-2,4xL	Φ 2.4	根据用户 要求定制 customized	1.3	195	1.4	198	饱和蒸汽 冷凝水 Saturation Steam condensate water	L+0.65	3.154	3.917
FGZCS1,5-2,4xL	Φ 2.4		1.5	201	1.6	204			3.154	3.917
FGZCS1,3-2,5xL	Φ 2.5		1.3	195	1.4	198			3.254	4.017
FGZCS1,5-2,5xL	Φ 2.5		1.5	201	1.6	204			3.254	4.017
FGZCS1,3-2,68xL	Φ 2.68		1.3	195	1.4	198			3.28	4.143
FGZCS1,5-2,68xL	Φ 2.68		1.5	201	1.6	204			3.28	4.143
FGZCS1,3-2,85xL	Φ 2.85		1.3	195	1.4	198			3.58	4.493
FGZCS1,5-2,85xL	Φ 2.85		1.5	201	1.6	204			3.58	4.493
FGZCS1,3-3,0xL	Φ 3,0		1.3	195	1.4	198			4.537	4.66
FGZCS1,5-3,0xL	Φ 3,0		1.5	201	1.6	204			4.537	4.66
FGZCS1,3-3,2xL	Φ 3,2		1.3	195	1.4	198			4.74	5.131
FGZCS1,5-3,2xL	Φ 3,2		1.5	201	1.6	204			4.74	5.131

注：根据客户要求，蒸压釜的有效长度可适当增减，其他非标蒸压釜可根据用户要求专门设计。技术参数如有变动，恕不另行通知。
Note: The effective length and other non-standard autoclave can be designed according to the users' requirements. Zhengzhou Boiler Co., Ltd reserves the right to change the parameters without prior notice.

















郑州锅炉股份有限公司部分合作伙伴



郑州锅炉股份有限公司部分合作伙伴



ZBG PARTNERS





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