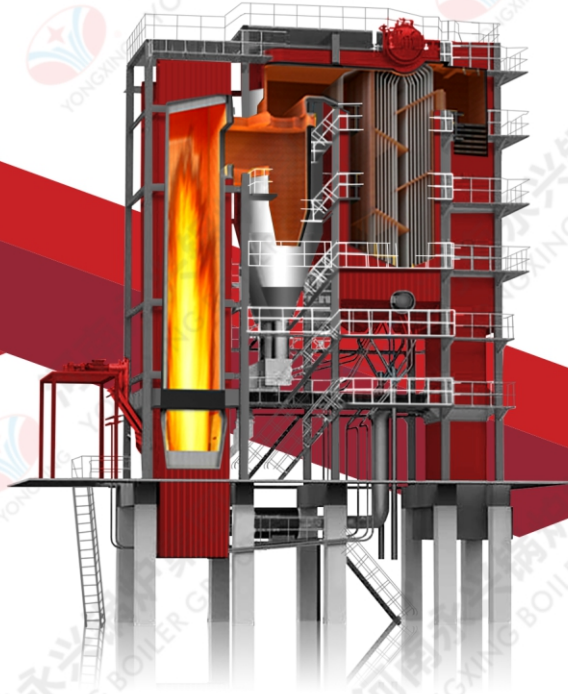




河南永兴锅炉集团有限公司
HENAN YONGXING BOILER GROUP CO., LTD.



QXX型循环流化床锅炉

QXX CIRCULATING FLUIDIZED BED BOILER

产品简介 Product Introduction

QXX型循环流化床锅炉是永兴锅炉新研发的一款循环流化床热水锅炉，烟煤、贫煤等各类煤质燃料都可以得到充分燃烧，减少了燃料不能完全燃烧带来的热损失，提高了燃烧效率和热效率，降低了燃料成本的投入。更好的是此锅炉代表了循环流化床技术发展的最新方向，具有燃料适应性广、保护装置齐全、燃烧效率高、负荷适应性强、自动化程度高等突出特点，广泛应用于石油化工、冶金矿产、建筑建材等行业。

QXX型循环流化床锅炉的锅炉本体采用全钢架结构，由燃烧设备、水冷系统、分离器、给煤装置、省煤器、空气预热器、钢架等组成，向后依次布置的有燃烧室、分离器、尾部烟道等。此锅炉是在鼓泡床的基础上发展起来的，与鼓泡床相比，具有更高的燃烧效率、更高的风速和更高的硫化速度，因此，在世界范围内得到了迅速发展。

QXX type circulating fluidized bed boiler is a newly developed circulating fluidized bed hot water boiler developed by Yongxing Boiler Group. All kinds of coal fuels, such as bituminous coal and lean coal, can be fully burned, which reduces the heat loss caused by incomplete combustion of fuel, improving combustion efficiency and thermal efficiency, and reducing the input of fuel cost. Better boiler represents the latest development direction of circulating fluidized bed technology. It has the characteristics of wide adaptability of fuel, complete protective equipment, high combustion efficiency, strong adaptability of load and high automation degree etc, and is widely used in petrochemical industry, metallurgy mineral industry, building materials and other industries etc.

The boiler body of QXX circulating fluidized bed boiler adopts the whole steel frame structure, which is composed of combustion equipment, water cooling system, separator, coal feeding device, economizer, air preheater, steel frame, etc. The combustion chamber, separator and tail flue channel are arranged backward in sequence. The boiler is developed on the basis of bubbling column. Compared with bubbling bed, it has higher combustion efficiency, higher wind speed and higher vulcanization speed. Therefore, it has been rapidly developed in the world.

性能特点 Performance Characteristics

- 燃烧颗粒可以实现循环燃烧，提高了燃烧效率，使燃烧效率达到95%—99%
 - 炉膛两侧采用膜式水冷壁结构，既保证了炉膛的密封性，也提高了热效率
 - 锅炉可以在低负荷下稳定运行，而无需添加辅助燃料
 - 该锅炉的机械传动件少，同时无埋管受热面，延长了锅炉的运行周期
 - 燃料适应性强，既可采用无烟煤、烟煤做燃料，也可以采用生物质颗粒做燃料
 - 大大降低了NOx的生成和排放量，保护了环境，符合环保政策要求
 - 燃料中可加入石灰石，实现经济脱硫，使脱硫效率达到90%左右
 - 返料系统采用膜式水冷壁结构，可以吸收飞灰所携带的部分热量，降低了飞灰温度，不会发生由二次燃烧引起的结焦现象
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- Combustion particles can realize cyclic combustion, improving combustion efficiency, which reaches to 95% to 99%.
 - The membrane wall structure is adopted on both sides of the furnace, which not only ensures the sealing of the furnace, but also improves the thermal efficiency.
 - The boiler can operate stably under low load without adding auxiliary fuel.
 - The boiler has less mechanical transmission parts and no buried pipe heating surface, which extends the operation period of the boiler.
 - The fuel has strong adaptability. It can use anthracite, bituminous coal as fuel or biomass particles as fuel.
 - Greatly reduce the generation and emissions of NOx, protect the environment and meet the requirements of environmental protection policies.
 - Limestone can be added into the fuel to achieve economic desulfurization, and the desulfurization efficiency is about 90%.
 - The return material system adopts the membrane water-cooling wall structure, which can absorbs part of the heat carried by the fly ash, reducing the fly ash temperature and avoiding coking caused by secondary combustion.

辅机配置 Auxiliary Equipment Configuration

辅机系统 Auxiliary Equipment System	辅机系统机器组成 Machines Of Auxiliary Equipment System
• 化水供水系统 Softening And Supply Water System	软水、除盐水处理系统、除氧器、给水泵、水箱、加氨装置、加药装置 Water Softener, Desalting System, Deaerator, Feed Water Pump, Water Tank, Ammonia Device, Dosing Device
• 蒸汽（热水）系统 Steam (Hot Water) System	分汽（水）缸、减温减压器 Steam Header, Water Header, Temperature And Pressure Reducer
• 燃料供应及制备系统 Fuel Supply System	上煤机、皮带输煤机、破碎机、振动筛、电子皮带秤、电磁除铁器、双犁式卸料器、（煤仓、石灰石仓）、炉前给煤机等 Coal Feeder, Belt Conveyor, Crusher, Vibrating Screen, Electronic Belt Scale, Electric Magnetic Iron Remover, Unloader (Coal Bin, Limestone Bin), Coal
• 烟风系统 Flue Gas And Air System	鼓风机、引风机、烟囱等 Forced Draught Fan, Induced Draught Fan, Chimney, Etc.
• 排污（汽）系统 Blow Down System	连排、定排、取样器、消音器 Continuous Blow Down, Intermission Blow Down, Sampler, Silencer
• 电控系统 Electric Control System	普通控制、PLC控制、DCS控制 Normal Control, PLC Control, DCS Control
• 烟气净化系统 Flue Gas Cleaning System	除尘器、脱硫装置、脱硝装置、气力输灰（灰仓）等 Dust Remover, Desulphur Device, Denitration Device, Ash Bin
• 出渣系统 Slag Removing System	出渣机、输渣皮带、（渣仓）等、锅炉房内其它设备：换热器或发电设备 Slag Remover, Belt Of Slag Remove, Slag Bin, Other Equipment In Boiler Room: Heat Ex-Changer/Generator

技术参数 Technical Parameters

• QXX型循环流化床锅炉 QXX Circulating Fluidized Bed Boiler

型号规格 Model And Specification Unit	额定热功率 Rated Heat Power (MW)	额定压力 Rated Pressure (MPa)	出水温度 Outlet Water Temperature (℃)	回水温度 Return Water Temperature (℃)	热效率 Heat Efficiency (%)	设计燃料 Design Fuel
QXX29-1.25/130/70	29	1.25	130	70	85	烟煤、无烟煤、 煤矸石、贫煤、 造气炉混合燃料 Bituminous Coal, Anthracite, Gangue, Lean Coal, Gasifier Mixed Fuel
QXX29-1.6/150/90	29	1.6	150	90		
QXX46-1.25/130/70	46	1.25	130	70		
QXX46-1.6/150/90	46	1.6	150	90		
QXX58-1.25/130/70	58	1.25	130	70		
QXX58-1.6/150/90	58	1.6	150	90		
QXX116-1.25/130/70	116	1.25	130	70		
QXX116-1.6/150/90	116	1.6	150	90		
QXX168-1.25/130/70	168	1.25	130	70		
QXX168-1.6/150/90	168	1.6	150	90		

相关案例 Related Project



2015.01 内蒙古伊东集团东屹化工有限责任公司58吨循环流化床锅炉
2015.01 58t/h CFB boiler in Inner Mongolia Yidong group



2014.04 新疆生化药业有限公司46吨循环流化床锅炉
2014.04 46t/h CFB boiler in Xinjiang Shenghua Pharmaceutical industry Co.,Ltd



2013.11 贵州兴诚华英食品有限公司29吨循环流化床锅炉
2013.11 29t/h CFB boiler in Guizhou Huaying food factory



2013.03 内蒙古阿拉腾矿业开发有限公司14吨循环流化床锅炉
2013.03 14t/h CFB boiler in Inner Mongolia Alateng mining industry

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