



## DHX型循环流化床锅炉

DHX CIRCULATING FLUIDIZED BED BOILER

### 产品简介 Product Introduction

现在，我国对环保的要求日益严格，DHX型循环流化床锅炉已成为首选地高效低污染的新型锅炉。它采用分级送风，再加上燃烧温度低，因此，燃料燃烧时，二氧化硫和氮氧化物排放量都较低，满足国家相关政策的要求。

DHX型循环流化床锅炉是单锅筒横置式循环流化床锅炉，与常规的循环流化床锅炉相比，它的用电量最少可以降低30%，而且磨损率比较小，减少了维护费用，因此，被广泛的应用于食品、纺织、建筑建材等行业，并受到广大客户的喜爱。

Now, China's environmental protection requirements are increasingly stringent, DHX type circulating fluidized bed boiler has become the first choice of efficient and low pollution of the new boiler. It adopts graded air supply, coupled with low combustion temperature, so when fuel is burned, emissions of sulfur dioxide and nitrogen oxides are relatively low, meeting the requirements of relevant national policies.

DHX type circulating fluidized bed boiler is single drum horizontal type circulating fluidized bed boiler, compared with the conventional circulating fluidized bed boiler, it is the least power consumption which can be reduced by 30%, and the wearing rate is small, reducing the maintenance cost, therefore, is widely used in food, textile, building materials industries, and popular with the masses of customers.

## 性能特点 Performance Characteristics

- 未燃尽的煤粒子可通过多次循环增加在炉内停留的时间，提高了燃烧效率
  - 锅炉运行过程中，受热面几乎没有磨损，年运行时间可达8000小时以上
  - 高温旋风分离装置的使用，提高了床料的收集率和炉膛传热系数
  - 锅炉采用特别的除尘除灰装置，降低了污染物的排放
  - 锅炉的自动化程度高，可长期保持锅炉安全、经济的运行
  - 锅炉可以在低负荷下稳定运行，而无需添加辅助燃料
  - 床料中可添加石灰石，燃烧过程中石灰石与SO<sub>2</sub>反应生成硫酸盐，脱硫效果满足环保要求
  - 锅炉既可燃用烟煤、褐煤等易燃煤种，也可燃用无烟煤等难燃煤种，还可烧树皮、垃圾等生物质燃料，燃料适用性广
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- The unburned coal particles can increase the time of staying in the furnace through repeated circulation, which improves the combustion efficiency.
  - In the process of boiler operation, the heating surface has little wear and the annual running time can reach to more than 8000 hours.
  - The use of high temperature cyclone separation device improves the rate of bed material collection and heat transfer coefficient of furnace.
  - The boiler adopts special dust removal and ash removal device to reduce the discharge of pollution.
  - The boiler's automation degree is high, which can keep the boiler safe and economical operation for a long time.
  - The boiler can work stably under low loads without adding auxiliary fuel.
  - Limestone can be added to the bed material, and sulfate can be generated by the reaction of limestone and SO<sub>2</sub> during combustion. Desulfurization effect meets the environmental requirements.
  - The boiler can burn not only combustible coal such as bituminous coal and lignite, but also non-combustible coal such as anthracite, as well as biomass fuels such as bark and garbage.

## 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, Intermision 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

### • 蒸汽锅炉 Steam Boiler

型号规格 Model And Specification Unit	锅炉容量 Boiler Capacity (T/h)	工作压力 Working Pressure (MPa)	额定蒸汽温度 Rated Steam Temperature (°C)	给水温度 Feed Water Temperature (°C)	适用煤种 Applicable Coal	设计效率 Designed Efficiency (%)
DHX35-1.25-M	35				各种煤、 矸石、 生物质、 垃圾、 污泥 Various Kinds Of Coal, Gangue, Biomass, Garbage And Sludge	89
DHX50-1.25-M	50	1.25	194	105		
DHX75-1.25-M	75					

### • 热水锅炉 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)	出水温度 Outlet Water Temperature (°C)	回水温度 Return Water Temperature (°C)	设计煤种 Designed Coal Type	应用基底位发热值 Base Low Calorific Value Applied (KJ/KG)
DHX58-1.25/130/70-AII	58	1.25	130	70	All	17700
DHX70-1.6/150/90-AII	70	1.6	150	90		
DHX91-1.6/150/90-AII	91	1.6	150	90		
DHX116-1.6/150/90-AII	116	1.6	150	90		



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2017.08 50t/h CFB boiler in Wulumuqi Baota Petrochemical Co.,Ltd



2016.02 安徽亳州广印堂中药20吨循环流化床锅炉  
2016.02 20t/h CFB boiler in Bozhou Guangyintang pharmaceutical factory



2004.11 山东日照圣运化工35吨循环流化床锅炉  
2004.11 35t/h CFB boiler in Rizhao Shengyun chemical factory



2014.04 河南周口泓宇纺织厂35吨循环流化床锅炉  
2014.04 35t/h CFB boiler in Zhoukou Hongyu textile factory

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