

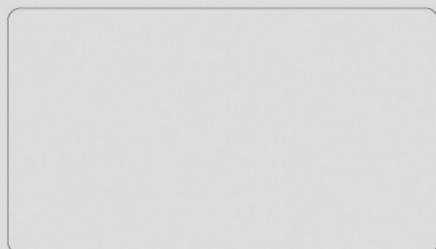


**江苏泉信锅炉有限公司**  
JIANGSU QUANXIN BOILER CO.,LTD

地址：扬州市广陵产业园大众港路18号  
电话：0514-87299800  
传真：0514-82825918  
网址：www.qx-boiler.com

Add: No. 18, Dazhonggang Road,  
Guangling Industrial Park, Yangzhou  
Tel: 0514-87299800  
Fax: 0514-82825918  
Http:// www.qx-boiler.com

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**江苏泉信锅炉有限公司**  
JIANGSU QUANXIN BOILER CO.,LTD

## 产品手册

高效 / 环保 / 专业  
Efficient / Environmental / Professional

泉信公司保留最终的解释权，产品以实物为准。  
产品系列 - CST - 2019, 印务 09/2019  
版本V1.0, 第一次编制



实用新型专利证书

# 资质证书 QUALIFICATION CERTIFICATE



# 企业简介 ENTERPRISE BRIEF INTRODUCTION

江苏泉信锅炉有限公司前身为泰州安信锅炉有限公司，创立于2007年，是一家专业从事燃油气、电加热蒸汽及热水锅炉的研发生产企业。公司致力于高效节能、安全环保锅炉的开发、制造及推广应用，经过多年的运营和积累，在全国市场已拥有广泛的应用业绩和良好声誉。

公司为创造更好的经营环境，进一步提升产品品质和科技水平，推陈出新，资源优化，于2014年进驻省级绿色工业园区——扬州市广陵产业园，更名为江苏泉信锅炉有限公司。这里环境优美，交通便利，人才资源丰富，工业配套设施齐全。

公司具备国家B级锅炉制造许可资质及Ⅲ级锅炉安

Jiangsu Quanxin Boiler Co., Ltd., formerly known as Taizhou Anxin Boiler Co., Ltd., founded in 2007, is a professional engaged in fuel gas and electric heating steam and hot water boiler R & D and production enterprises. The company is committed to high efficiency and energy saving, safety and environmental protection boiler development, manufacturing and application, after many years of operation and accumulation in the national market has wide application performance and good reputation.

Company to create a better business environment, to further enhance the product quality and the level of science and technology, innovation, resource optimization, in 2014 stationed in provincial green industrial park, Yangzhou City Guangling Industrial Park, was renamed Jiangsu Quanxin Boiler Co., Ltd.. Here a beautiful environment, convenient transportation, rich in human resources, complete industrial facilities.

Company has national B-class boiler manufacturing license qualification and grade III boiler installation maintenance and reconstruction of the qualification, made a number of independent

装改造维修资质，取得了多项自主知识产权的技术专利，通过了ISO9001质量管理体系、OHSAS18001职业健康安全管理体系及ISO14001环境管理体系认证。公司拥有一批先进的生产、检测设备和各类专业技术人才，不断钻研技术，强化管理，开发完善各类节能环保型锅炉产品。主要有冷凝余热回收燃油（气）蒸汽锅炉、真空热水锅炉、间接加热热水锅炉、燃油（气）热水锅炉、电加热蒸汽及热水锅炉、饮水炉等十多个系列、近百个品种，能够满足不同客户的需求。

公司秉承科技为先，用户至上的经营理念，不断创新进取，努力为广大用户奉献精致美观、节能环保、安全可靠、性价比高的锅炉产品！

intellectual property rights of technology patents, passed the ISO9001 quality management system, OHSAS18001 occupational health and safety management system and ISO14001 environmental management system certification. The company has a number of advanced production, testing equipment and various professional and technical personnel, and constantly study technology, strengthen management, develop and improve all kinds of energy saving and environmental protection boiler products. Main condensation heat recovery of fuel oil (gas) steam boiler, vacuum hot water boiler, indirect heating hot water boilers, pressure fuel (gas) hot water boiler, electric heating steam and hot water boilers, water heaters and other 10 series, nearly a hundred varieties, to meet the needs of different customers.

Company adhering to the technology first, customer first business philosophy, innovative and enterprising, dedication to boiler products exquisite beauty, energy saving and environmental protection, safe and reliable, cost-effective for customers!

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# 发展历程 THE DEVELOPMENT COURSE

风雨兼程 一路成长  
Trials and hardships All the way to grow



# 全冷凝高效蒸汽锅炉

All Condensing Steam boiler

炉内压力控制及超压连锁保护

全开启铰链式双层密封烟箱门，易于保养、检修。内衬隔热耐火层

选配国际先进燃烧器，提高锅炉运行效率

一体化鳍片管两级节能装置设计，末端冷凝装置采用“耐低温酸腐”专用材质，超长使用寿命

多重水位连锁控制保护

高强度耐腐蚀外包，锅炉整体大气美观



## ◎保养便捷

设置全开启铰链式双层密封烟箱门。锅炉后部设置观火孔、检查门，炉体设置人孔、手孔。锅炉烟气、汽水无检修死角。

## ◎可靠附件

配套世界知名品牌燃烧器，先进稳定的控制系统（主要元器件为进口品牌），阀泵均采用国内外优质品牌，确保锅炉安全稳定的运行。

## ◎制造规范

整个生产过程中，均严格遵循国家、行业标准进行设计、制造，严格的工厂质保控制体系，凭借先进的生产工艺，保障锅炉整体品质。

## ◎先进的自控系统

锅炉实现全自动控制，控制系统拓展能力强。

## ◎优质服务

全年 365 天 24 小时全天候提供优质的技术咨询及服务，随时提供最优质完美的服务。

## 全凝高效蒸汽锅炉技术参数

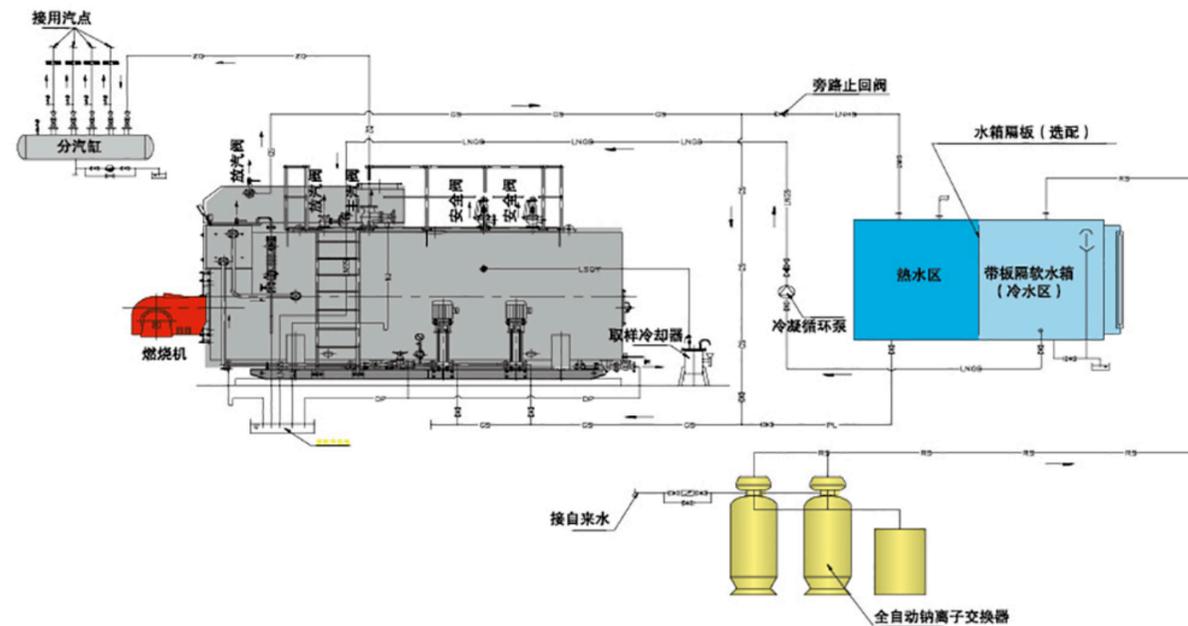
The technical parameters of All Condensing Steam boiler

项目 (Item)		WNS1	WNS1.5	WNS2	WNS3	WNS4	WNS6	WNS8	WNS10	WNS12	WNS15	WNS20	
额定蒸发量 (Rated evaporation)	T/h	1	1.5	2	3	4	6	8	10	12	15	20	
额定蒸汽压力 (Rated steam pressure)	MPa	0.7/1.0/1.25		1.0/1.25/1.6									
饱和蒸汽温度 (Saturated steam temperature)	°C	171/184/193		184/193/204									
额定给水温度 (feed water temperature)	°C	20					104(热力除氧) / 20 (常温除氧)						
水容量 (Water capacity)	T	3.26	3.42	3.65	6.19	10.54	13.68	15.6	17.32	23	25	39.5	
设计换热面积 (Heat exchange area)	m <sup>2</sup>	67.2	86.7	113.2	152.8	204	294	414.7	506	556	697	967	
设计热效率 (Efficiency)	%	100.1~100.8											
设计燃料 (Fuel)	—	天然气											
适用燃料 (available fuel)	—	城市煤气、轻油											
主汽阀口径 (Main steam valve diameter)	mm	50	65	65	80	100	125	125	150	150	200	200	
放汽阀口径 (Discharge valve diameter)	mm	25	25	25	40	40	40	40	40	40	40	40	
安全阀口径 (Safety valve)	mm	2×40	2×40	2×40	2×40	2×50	2×65	2×80	2×80	2×80	2×100	2×100	
排污阀口径 (Drain outlet)	mm	50	50	50	50	50	2×50	2×50	2×50	2×50	2×50	2×50	
给水口径 (Feed water inlet)	mm	40	40	40	40	40	40	50	50	65	65	65	
冷凝器进/出水口径 (Condenser inlet and outlet diameter)	mm	25	25	25	25	25	40	50	50	50	65	65	
烟囱直径 (Chimney diameter)	mm	273	300	300	400	450	550	650	700	750	800	900	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	74.6	111.8	149.41	225	299.5	449	560	747	840	1051	1402
	轻油 (Light oil)	Kg/h	62.2	93	128.4	187	249.2	373.6	464.7	622	700	875	1190
	城市煤气 (C.G)	Nm <sup>3</sup> /h	158.5	234.8	317.5	473.4	636	892.5	1190	1504.5	1785	2233	2979
锅炉运输重量 (Transport weight)	T	5.4	6.6	7.7	9	11.8	17.2	21	24.2	28.8	35	47	
最大运输尺寸 (Maximum transport size)	长 (Length)	mm	3800	4000	4500	5000	5000	5500	6600	7100	7800	8300	9200
	宽 (Width)	mm	2000	2200	2200	2400	2400	2700	2800	2900	3100	3200	3600
	高 (Height)	mm	2100	2300	2300	2400	2600	2800	3100	3300	3600	3800	4100
最大外型尺寸 (Maximum size)	长 (Length)	mm	3800	4000	4500	5000	5000	5500	6800	7100	9300	9900	11000
	宽 (Width)	mm	2500	2900	2870	3000	3100	3400	3600	3700	3900	4400	4800
	高 (Height)	mm	3000	3000	3100	3300	3600	4100	4500	4800	4300	4800	5300
底座尺寸 (Size of base)	长 (Length)	mm	3300	3450	3700	4200	4400	4900	5900	6300	6600	7000	7600
	宽 (Width)	mm	1200	1400	1400	1500	1600	1700	1800	2000	2200	2200	2400

说明: 1、天然气热值: 8500Kcal/Nm<sup>3</sup>; 轻油热值: 10300Kcal/Kg; 城市煤气热值: 4000Kcal/Nm<sup>3</sup>。2、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变恕不另行通知。3、预留、预制及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据, 此数据仅供参考。

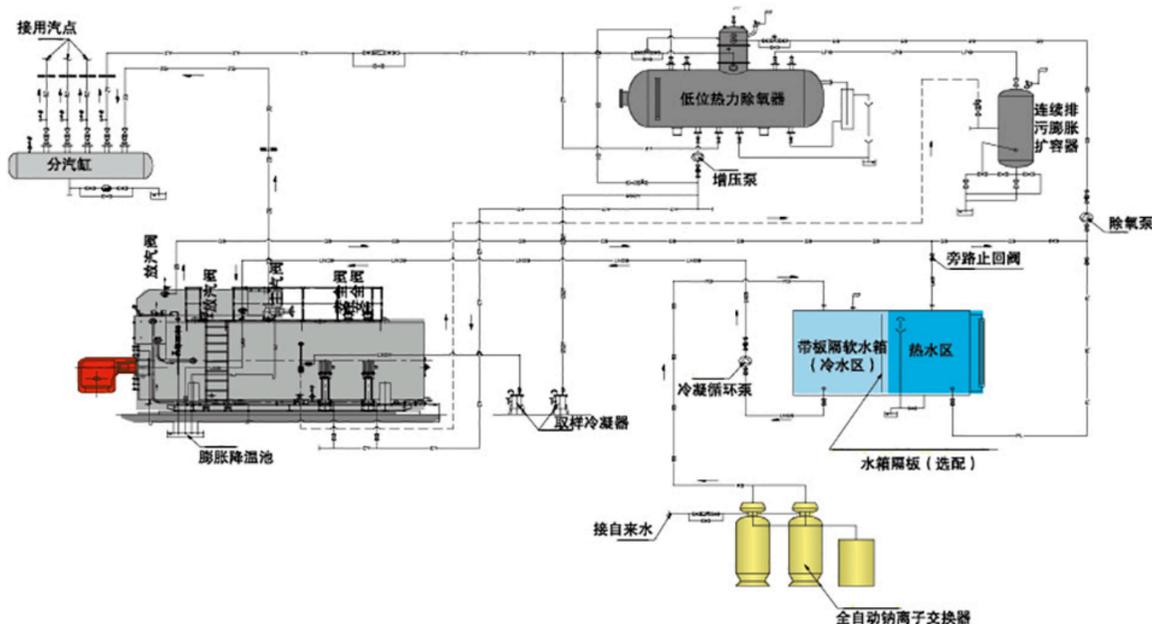
## 常温 20°C 给水系统流程图

System draft-20°C



## 热力除氧 104°C 给水系统流程图

System draft-104°C



ZQ	LNOS	CY	LSQY	PL	CG	Y			
主蒸汽管道	冷凝器给水管道	除氧水管道	连续排污管道	炉水取样管道	除氧器给水旁路水管	节流阀	调节阀	流量孔板	漏斗
GS	LNHS	HS	DP	NJ					
给水管道	冷凝器回水管道	回水管道	定期排污管道	凝结水管道	法兰截止阀	电动调节阀	安全阀	疏水器	地沟
RS	LNSS	LPQ	GSQY	ZY					
软水管道	冷凝器疏水管道	连排扩容蒸汽管道	给水(除氧水)取样管	自用蒸汽管道	法兰闸阀	止回阀	旋翼式流量计	放空	

# 卧式燃油(气)蒸汽锅炉

Horizontal Oil (Gas) Condensing Steam boiler



- 1、采用湿背式三回程结构，中心对称布置，能改善管板的应力分布。湿背式结构燃烧室完全浸入水中，冷却条件好。大燃烧室设计利于火焰展开，燃烧充分。回燃室管板全部板边对接，结构稳健，使用寿命长。
- 2、波纹炉胆的应用既增加了受热面又缓解热胀冷缩可能对燃烧室的损伤，提高强度。大炉膛容积燃烧完全，充分节约燃料。
- 3、前烟箱采用铰链式连接，双层密封且方便开启。采用轻型优质密封隔热材料，隔烟隔热，既降低前后面板温度又提高热效率。
- 4、大蒸汽空间使蒸汽脱离水面的速度低，且内置汽水分离装置，确保温度输出高品质蒸汽。
- 5、采用螺纹烟管，增强换热效果，提高了热效率。
- 6、锅炉给水进口处设置了混水装置，低温给水先冲刷烟管束，待给水温度提升后再接触炉胆及火箱等高温部位，有效避免了局部过冷沸腾现象的产生，保障锅炉安全性能。
- 7、应用先进的数字化控制技术，可远程精确监控燃烧过程。控制柜强电部分采用国内外名优电器，质量可靠；控制器采用液晶或触摸屏控制器，自动化程度高，具有操作简便，燃烧、水位、压力自动控制，检漏报警，超压、超温、缺水保护等连锁保护功能。
- 8、出烟口增设冷凝换热器，采用ND耐蚀钢材材质，导热快，经久耐用。换热管采用螺旋翅片强化吸收烟气中的湿热和潜热，降低排烟温度，提高锅炉的效率（达95%以上）。

- 1、Adopt wet type three return back structure, the center symmetric arrangement, can improve the stress distribution of tube sheet. Wet back structure completely submerged combustion chamber, good cooling conditions. Big combustion chamber design for flame, burning full. All back into the combustion chamber tube plate edge docking, solid structure, long service life.
- 2、Application of corrugated furnace increases the heating surface and alleviate heat bilges cold shrink may damage in the combustion chamber, and improve the strength. Large combustion furnace boring and volume burn completely, fully saving fuel.
- 3、Before the smoke box adopts hinged connection, double sealing and convenient opening. With light quality sealing insulation materials, smoke and heat insulation, insulation is lower the temperature in the front and back panel and improve the thermal efficiency.
- 4、Steam space makes the steam out of the water velocity is low, and the built-in separation device, to ensure the high quality steam temperature output.
- 5、Using thread pipe, enhance the heat transfer effect, increase the thermal efficiency.
- 6、Set up a mix water boiler feed water inlet device, low temperature water flushing pipe bundle first, after waiting for feed water temperature ascend to contact furnace and high temperature parts such as fire box, effectively avoid the local subcooled boiling phenomenon, to ensure the safety of boiler performance.
- 7、The application of advanced digital control technology, which can remote accurately monitor the combustion process. High-voltage electrical control part adopts domestic and foreign famous electrical appliances; Reliable quality; LCD and touch screen controller, controller USES a high degree of automation, with the features of easy operation, combustion automatic control, water level, pressure, leak detection alarm, overpressure and overtemperature, water shortage protection interlock protection function.
- 8、The stack nozzle add condensing heat exchanger, using ND corrosion resistant steel quality, fast heat conduction, durable. Heat exchange tube with spiral become warped strengthens the absorption flue gas wet and heat and latent heat, reduce exhaust temperature, improve the efficiency of the boiler (95%).

## 卧式燃油(气)蒸汽锅炉技术参数

The technical parameters of Horizontal Oil (Gas) Condensing Steam boiler

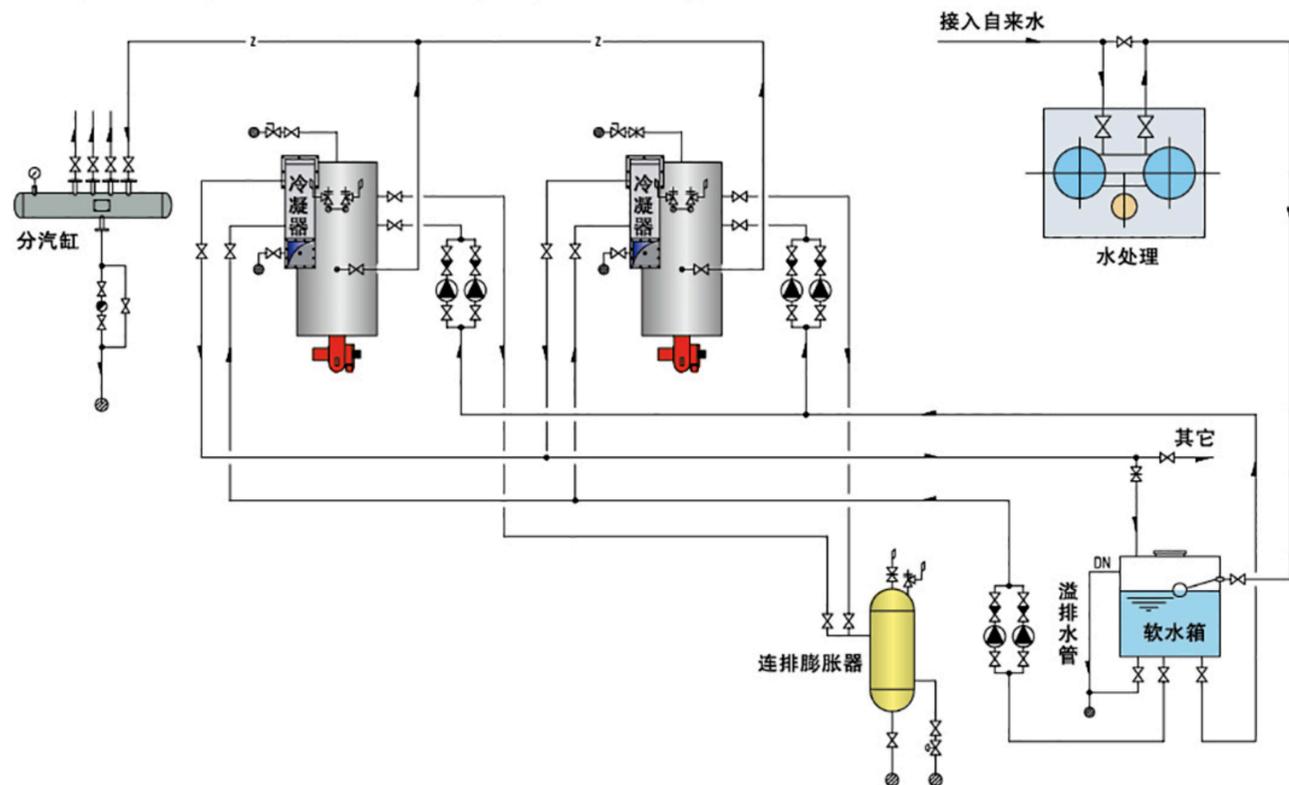
项目 (Item)		WNS0.5	WNS0.75	WNS1	WNS1.5	WNS2	WNS3	WNS4	
额定蒸发量 (Rated evaporation)	T/h	0.5	0.75	1	1.5	2	3	4	
额定蒸汽压力 (Rated steam pressure)	MPa	0.7/1.0/1.25			1.0/1.25/1.6				
饱和蒸汽温度 (Saturated steam temperature)	°C	171/184/193			184/193/204				
额定给水温度 (feed water temperature)	°C	20							
设计热效率 (Efficiency)	%	94.85	94.84	95.17	94.54	95.05	94.18	94.34	
正常水容量 (Water capacity)	T	1.54	2.57	2.82	3.21	3.65	4.65	5.82	
主汽阀口径 (Main steam valve diameter)	mm	40	50	50	65	65	80	100	
放汽阀口径 (Discharge valve diameter)	mm	25	25	25	25	40	40	40	
给水口径 (Feed water inlet)	mm	40	40	40	40	40	50	40	
排污阀口径 (Drain outlet)	mm	40	40	40	50	50	50	50	
安全阀口径 (Safety valve)	mm	40	40×2	40×2	40×2	40×2	50×2	50×2	
烟囱直径 (Chimney diameter)	mm	219	219	273	273	300	400	450	
外型尺寸 (Size)	长 (Length)	mm	2900	2900	3150	3550	4000	4400	4800
	宽 (Width)	mm	2350	2600	2600	2600	2730	3000	3100
	高 (Height)	mm	2200	2500	2500	2750	3100	3100	3400
锅炉运输重量 (Transport weight)	T	3.7	4.1	4.8	5.9	7.2	8.7	11.72	
底座尺寸 (Size of base)	长 (Length)	mm	2200	2200	2400	2800	3200	3600	4000
	宽 (Width)	mm	1000	1200	1200	1300	1300	1500	1600
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	40.4	60.34	81	121.7	161.6	245.3	325.1
	轻油 (Light oil)	Kg/h	33.6	50.23	67.4	101.3	134.5	203.2	270.55
	城市煤气 (C.G)	Nm <sup>3</sup> /h	85	128	170.3	258.6	343	519	706

项目 (Item)		WNS6	WNS8	WNS10	WNS12	WNS15	WNS20	
额定蒸发量 (Rated evaporation)	T/h	6	8	10	12	15	20	
额定蒸汽压力 (Rated steam pressure)	MPa	1.0/1.25/1.6						
饱和蒸汽温度 (Saturated steam temperature)	°C	184/193/204						
额定给水温度 (feed water temperature)	°C	104(热力除氧)/20(常温除氧)						
设计热效率 (Efficiency)	%	94.72	96.6	97	96.3	96.4	96.2	
正常水容量 (Water capacity)	T	9.76	14.8	17	21	28.7	31.7	
主汽阀口径 (Main steam valve diameter)	mm	125	125	150	150	200	200	
放汽阀口径 (Discharge valve diameter)	mm	40	40	40	40	40	40	
给水口径 (Feed water inlet)	mm	40	40	40	50	65	80	
排污阀口径 (Drain outlet)	mm	50×2	50×2	50×2	50×3	50×3	50×3	
安全阀口径 (Safety valve)	mm	65×2	80×2	80×2	80×2	100×2	100×2	
烟囱直径 (Chimney diameter)	mm	550	650	700	750	800	900	
外型尺寸 (Size)	长 (Length)	mm	5200	6820	7300	7800	8300	8700
	宽 (Width)	mm	3500	2840	3350	3350	3400	3700
	高 (Height)	mm	4100	3200	3450	3450	3800	3800
锅炉运输重量 (Transport weight)	T	19.2	22.61	28.8	31	40	44	
底座尺寸 (Size of base)	长 (Length)	mm	4300	6250	6540	6700	7000	7200
	宽 (Width)	mm	2000	2100	2300	2500	2500	2800
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	487.1	543.6	723	860	1006	1448
	轻油 (Light oil)	Kg/h	405.4	451.5	606	714	835	1243
	城市煤气 (C.G)	Nm <sup>3</sup> /h	931.8	1155	1536	1827	2137	3077

说明: 1、天然气热值: 8500Kcal/Nm<sup>3</sup>; 轻油热值: 10300Kcal/Kg; 城市煤气热值: 4000Kcal/Nm<sup>3</sup>。2、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变更恕不另行通知。3、预留、预制及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据, 此数据仅供参考。

## 卧式燃油（气）蒸汽锅炉系统图

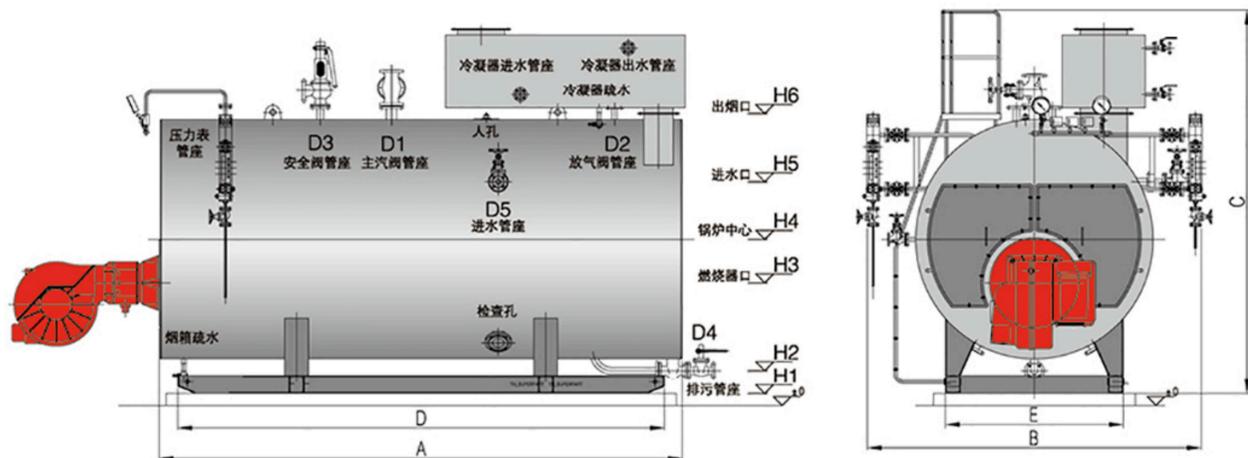
The system diagram of Horizontal Oil (Gas) Condensing Steam boiler



注：此图为示意图，安装以实际安装图纸为准。This is a sketch map and the installation must comply with the drawing of practical.

## 卧式燃油（气）蒸汽锅炉尺寸图

The dimensions of Horizontal Oil (Gas) Condensing Steam boiler



## 卧式燃油（气）蒸汽锅炉尺寸表

The size table of Horizontal Oil (Gas) Condensing Steam boiler

项目	A	B	C	D	E	H1	H2	H3
WNS0.5	2900	2253	2140	2200	1000	100	270	775
WNS0.75	2900	2403	2777	2200	1200	100	260	830
WNS1	3150	2453	2838	2400	1200	100	300	890
WNS1.5	3550	2567	3043	2800	1300	100	295	975
WMS2	4000	2627	3068	3200	1300	100	315	1015
WNS3	4400	2813	3218	3600	1500	100	290	1025
WNS4	4800	2953	3378	4000	1600	100	295	1075
WNS6	5220	3353	4040	4300	2000	100	365	1300
WNS8	6680	3600	3875	6250	2100	200	256	1213
WNS10	7300	3334	4314	6540	2300	200	270	1358
WNS12	7470	4200	4437	6700	2500	200	362	1345
WNS15	8200	4400	4920	7000	2500	200	372	1430
WNS20	8700	4600	5390	7200	2800	200	650	1840

项目	H4	H5	H6	D1	D2	D3	D4	D5
WNS0.5	1055	1275	1660	40	25	40	40	40
WNS0.75	1120	1410	1880	50	25	40×2	40	40
WNS1	1185	1515	1970	50	25	40×2	40	40
WNS1.5	1295	1655	2095	65	25	40×2	50	40
WMS2	1340	1740	2200	65	40	40×2	50	40
WNS3	1390	1870	2340	80	40	50×2	50	40
WNS4	1470	2020	2500	100	40	50×2	50	40
WNS6	1740	2400	2975	125	50	65×2	50×2	40
WNS8	1700	2245	3070	150	40	80×2	50×2	50
WNS10	1920	2220	3470	150	40	80×2	50×2	65
WNS12	1880	2580	3360	150	40	80×2	50×3	65
WNS15	2090	2890	3800	200	40	100×2	50×3	80
WNS20	2428	3130	4260	200	40	100×2	50×3	80

# 卧式燃油(气)承压热水锅炉

## Horizontal Oil (Gas) Condensing Bearing Hot Water Boiler



- 1、采用卧式湿背式三回程结构、中心对称布置，能够改善管板的应力分布。湿背式结构燃烧室及烟管完全浸入水中，冷却条件好。大燃烧室设计利于火焰展开，燃烧充分。回燃室管板全部扳边对接，结构稳健，使用寿命长。
- 2、波纹炉胆的应用既增加了受热面又缓解了热胀冷缩可能对燃烧室的损伤，提高强度。大炉膛容积燃烧完全，节约燃料。
- 3、采用螺纹烟管，增强换热效果，提高了热效率。
- 4、锅炉回水设备了导流装置，引导回水冲刷锅炉炉胆及火箱等高温部位，既增强换热又有效避免了局部过冷沸腾现象的产生，保障锅炉安全性能。
- 5、应用先进的数字化控制技术，可远程精确监控燃烧过程。控制柜强电部分采用国内外名优电器，质量可靠；控制器采用液晶或触摸屏控制器，自动化程度高，具有操控简便，燃烧、水位、温度自动控制，检漏报警，超压、超温、缺水保护等联锁保障功能。
- 6、出烟口增设冷凝换热器，换热管采用螺旋翅片强化吸收烟气中的显热和潜热，降低排烟温度，提高锅炉的效率(达95%以上)。

- 1、Adopt wet type three return back structure, the center symmetric arrangement, can improve the stress distribution of tube sheet. Wet back structure completely submerged combustion chamber, good cooling conditions. Big combustion chamber design for flame, burning full. All back into the combustion chamber tube plate edge docking, solid structure, long service life.
- 2、Application of corrugated furnace increases the heating surface and alleviate heat bilges cold shrink may damage in the combustion chamber, and improve the strength. Large combustion furnace boring and volume burn completely, fully saving fuel.
- 3、Using thread pipe, enhance the heat transfer effect, increase the thermal efficiency.
- 4、The return water of the boiler equipment guiding device, and guide water flushing boiler furnace and high temperature parts such as fire box, enhanced heat transfer and effectively avoid the phenomenon of local subcooled boiling, to ensure the safety of boiler performance.
- 5、The application of advanced digital control technology, which can remote accurately monitor the combustion process. High-voltage electrical control part adopts domestic and foreign famous electrical appliances; Reliable quality; LCD and touch screen controller, controller USES a high degree of automation, with the features of easy operation, combustion automatic control, water level, pressure, leak detection alarm, overpressure and overtemperature, water shortage protection interlock protection function.
- 6、The stack nozzle add condensing heat exchanger, Heat exchange tube with spiral become warped strengthens the absorption flue gas wet and heat and latent heat, reduce exhaust temperature, improve the efficiency of the boiler (above 95%)

# 卧式燃油(气)承压热水锅炉技术参数

The technical parameters of Horizontal Oil (Gas) Condensing Bearing Hot Water Boiler

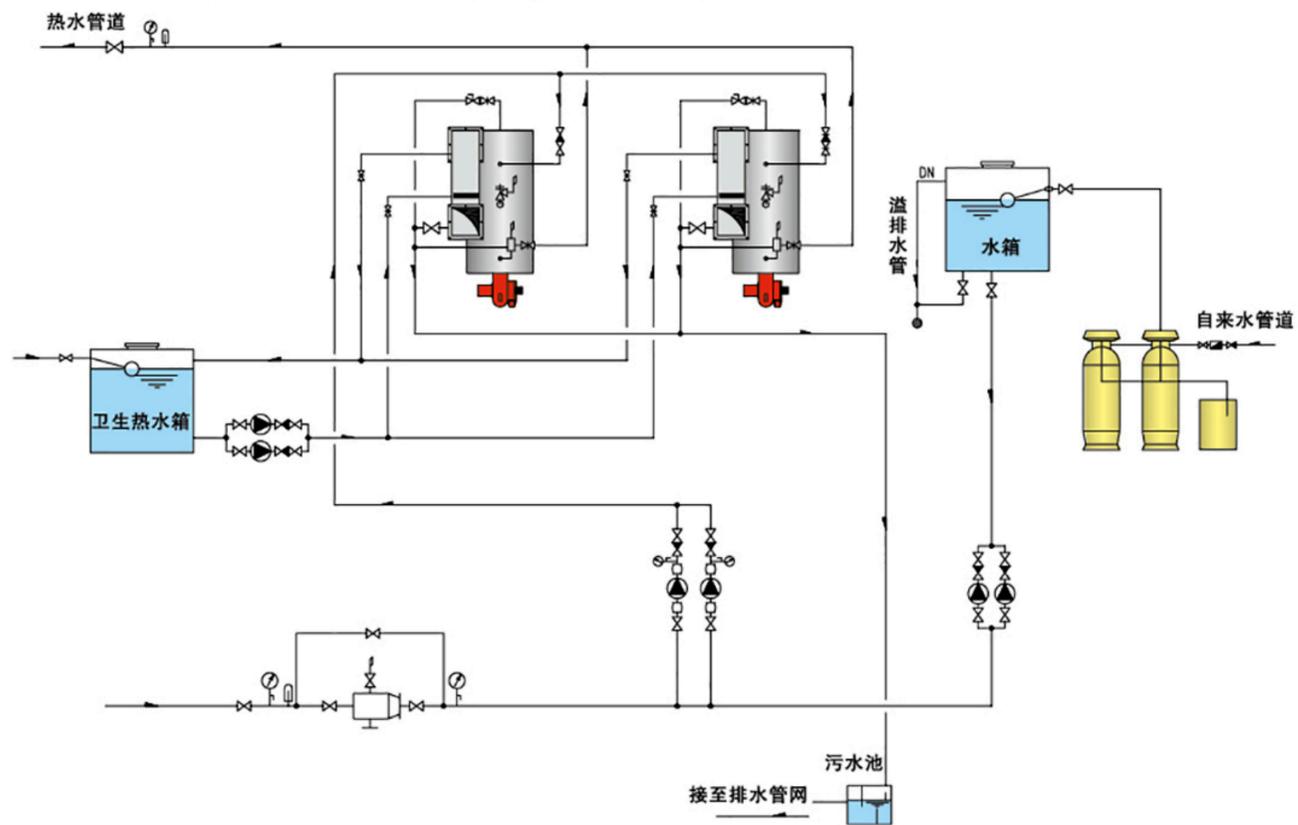
项目 (Item)		WNS0.35	WNS0.48	WNS0.7	WNS1.05	WNS1.4	
		-0.7/1.0 -95/70-Y.Q					
额定发热量 (Rated evaporation)	MW.h	0.35	0.48	0.7	1.05	1.4	
	10 <sup>4</sup> Kcal	30	40	60	90	120	
额定工作压力 (Working pressure)	MPa	0.7/1.0					
额度出水温度 (Supply water temperature)	°C	95					
额度回水温度 (Return water temperature)	°C	70					
设计热效率 (Efficiency)	%	93.43	93.51	92.94	93.09	94.2	
水容量 (Water capacity)	T	1.52	1.76	1.95	2.52	4.43	
出水口 (Water outlet)	mm	50	65	80	80	100	
进水口 (Water inlet)	mm	50	65	80	80	100	
排污口 (Drain outlet)	mm	40	40	40	50	50	
安全阀 (Safety valve)	mm	32	40	50	50	40×2	
烟囱直径 (Chimney diameter)	mm	219	219	273	325	350	
外型尺寸 (Size)	长 (Length)	mm	2400	2700	3050	3200	3900
	宽 (Width)	mm	1500	1500	1550	1700	1850
	高 (Height)	mm	1800	1800	1970	2270	3000
底座尺寸 (Size of base)	长 (Length)	mm	2400	2700	3000	2880	3100
	宽 (Width)	mm	900	900	1000	1300	1300
锅炉运输重量 (Transport weight)	T	2.8	3.2	3.6	4.6	5	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	38.24	52.4	76.89	115.16	157.8
	轻油 (Light oil)	Kg/h	31.56	43.28	63.56	95.18	131.4
	城市煤气 (C.G)	Nm <sup>3</sup> /h	81.2	111.3	163.4	244.7	326.6

项目 (Item)		WNS2.1	WNS2.8	WNS3.5	WNS4.2	WNS5.6	WNS7	WNS10.5	WNS14	
		-1.0/1.25 -95(115)/70-Y.Q								
额定发热量 (Rated evaporation)	MW.h	2.1	2.8	3.5	4.2	5.6	7	10.5	14	
	10 <sup>4</sup> Kcal	180	240	300	360	480	600	900	1200	
额定工作压力 (Working pressure)	MPa	1.0/1.25								
额度出水温度 (Supply water temperature)	°C	95/115								
额度回水温度 (Return water temperature)	°C	70								
设计热效率 (Efficiency)	%	93	94.19	94	94.06	94.23	94.1	94.1	94.12	
水容量 (Water capacity)	T	4.75	6.8	8.26	10.86	14.27	15.8	21.3	28.9	
出水口 (Water outlet)	mm	100	150	150	200	200	200	250	300	
进水口 (Water inlet)	mm	100	150	150	200	200	200	250	300	
排污口 (Drain outlet)	mm	50	50	50	50	50	50×2	50×3	50×3	
安全阀 (Safety valve)	mm	50×2	50×2	65×2	65×2	80×2	80×2	100×2	100×2	
烟囱直径 (Chimney diameter)	mm	400	450	500	550	650	750	800	900	
外型尺寸 (Size)	长 (Length)	mm	4230	4300	5400	5500	6000	7100	7800	8400
	宽 (Width)	mm	2300	2400	2240	2380	2550	2600	3200	3300
	高 (Height)	mm	3200	3500	2600	2880	3000	3100	3450	3800
底座尺寸 (Size of base)	长 (Length)	mm	3400	3400	4830	5320	5600	6400	7500	8000
	宽 (Width)	mm	1400	1600	1700	1800	2000	2000	2200	2400
锅炉运输重量 (Transport weight)	T	6	8.6	12.5	14	18.5	21	31	44	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	236.4	315.63	380.8	455.88	606.73	768.1	1193.7	1452
	轻油 (Light oil)	Kg/h	196.9	263.22	314.55	377.46	500.97	635.8	985.1	1258
	城市煤气 (C.G)	Nm <sup>3</sup> /h	485.3	645.9	809	968.7	1289	1632	2536	3085

说明: 1、天然气热值: 8500Kcal/Nm<sup>3</sup>; 轻油热值: 10300Kcal/Kg; 城市煤气热值: 4000Kcal/Nm<sup>3</sup>。2、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变恕不另行通知。3、预留、预制及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据, 此数据仅供参考。

## 卧式燃油（气）承压热水锅炉系统图

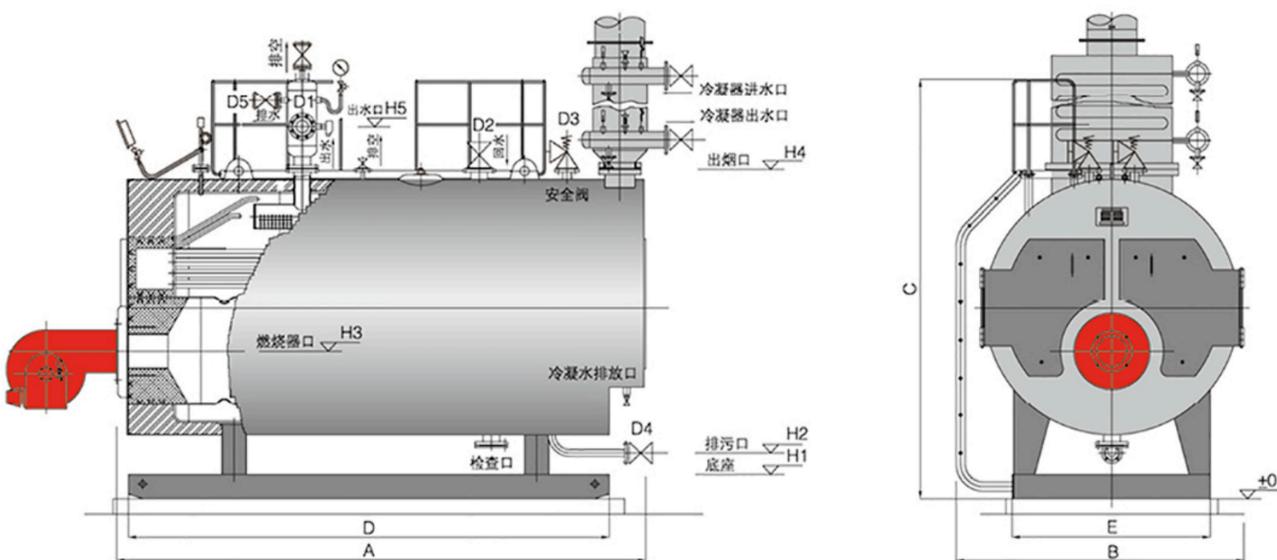
The system diagram of Horizontal Oil (Gas) Condensing Bearing Hot Water Boiler



注：此图为示意图，安装以实际安装图纸为准。This is a sketch map and the installation must comply with the drawing of practical.

## 卧式燃油（气）承压热水锅炉尺寸图

The dimensions of Horizontal Oil (Gas) Condensing Bearing Hot Water Boiler



## 卧式燃油（气）承压热水锅炉尺寸表

The size table of Horizontal Oil (Gas) Condensing Bearing Hot Water Boiler

项目 (Item)	A	B	C	D	E	H1	H2
WNS0.35	2450	1500	2480	2400	900	100	150
WNS0.48	2750	1500	2480	2700	900	100	150
WNS0.7	3050	1600	3000	3000	1000	120	180
WNS1.05	3200	1900	3364	2880	1300	120	180
WMS1.4	3900	1940	2988	3100	1300	100	305
WNS2.1	4230	2065	3138	3400	1400	100	310
WNS2.8	4300	2295	3345	3400	1600	100	310
WNS3.5	5400	2500	3650	4830	1700	160	250
WNS4.2	5500	2535	3650	5320	1800	160	250
WNS5.6	6000	2750	4700	5600	2000	160	250
WNS7	7100	2800	4050	6400	2000	200	300
WNS10.5	7800	3200	4520	6545	2600	200	300
WNS14	8400	3300	5200	6800	3000	200	300

项目 (Item)	H3	H4	H5	D1	D2	D3	D4	D5
WNS0.35	770	1770	2010	50	50	32	40	25
WNS0.48	770	1770	2020	65	65	40	40	25
WNS0.7	945	1970	2220	80	80	50	40	25
WNS1.05	980	2270	2450	80	80	50	50	25
WMS1.4	1005	2114	2566	100	100	40×2	50	25
WNS2.1	1060	2270	2721	125	125	50×2	50	25
WNS2.8	1165	2470	2923	150	150	50×2	50	25
WNS3.5	1288	2780	2980	150	150	65×2	50	25
WNS4.2	1314	2850	3170	200	200	65×2	50	25
WNS5.6	1380	3000	3280	200	200	80×2	50	25
WNS7	1536	3000	3650	250	250	80×2	50×2	25
WNS10.5	1390	3450	4050	250	250	100×2	50×3	25
WNS14	1470	3800	4620	300	300	100×2	50×3	25

# 立式燃油（气）蒸汽锅炉

Vertical Oil (Gas) Steam Boiler



## 立式蒸汽锅炉配备：

- 1、配置专利产品 --- 黑白水位计，锅炉水位清晰可辨。
- 2、配置优质安全阀、截止阀、压力表及压力控制器，确保锅炉安全可靠运行。
- 3、配置优质锅炉控制器，抗干扰能力强，能在恶劣环境下长期工作。操作简单，自动化程度高，运行异常自动停机报警，指明故障原因，检修方便。具有燃烧、压力、水位自动控制及超压、缺水、超温等连锁报警功能。

## Vertical steam boiler is equipped with:

- 1、Configuration, patented product - black and white water level gauge, boiler water level.
- 2、Configuration quality safety valve, stop valve, pressure gauge and pressure controller, to ensure safe and reliable operation of the boiler.
- 3、Configuration of high quality boiler controller, strong anti-interference ability, can long-term work under bad environment. Simple operation, high automation, running abnormal automatic stop alarm, identify the cause of the problem, maintenance is convenient. With burning, pressure, water level automatic control and overpressure, water shortage and overtemperature of interlock alarm function.

- 1、采用侧吹式结构，避免燃烧器顶置产生热气上行损坏燃烧器内部部件，也方便燃烧器安装维护。
- 2、大尺寸炉膛提供足够的辐射受热面。
- 3、对流受热面有第二、三回程的管束构成；第二回程烟管上部与炉胆连接，烟气从炉胆上部缩口出转折向下到达下烟室，此时出烟烟温已低于600℃。烟气再转折向上到达炉胆缩口上部，此时温度降至200℃左右。通过合理布置烟管，使得炉水均匀受热，减少炉水波动和受热部件热应力，使蒸汽输出稳定并提高使用寿命。
- 4、全部烟管都处在炉水下部，不存在蒸汽腐蚀。
- 5、上烟箱的结构采用轻形结构的耐火保温材料，方便检修。
- 6、由于采用炉胆上部缩口结构，使得锅炉上部达到最大的气化空间，便于汽水分离，蒸汽品质高。
- 7、立式锅炉占地小，便于布置。
- 8、由于立式蒸汽锅炉特殊性，起压早产气快，节约启动能源。
- 9、配有专门的不锈钢翅片换热冷凝器，吸收尾部烟气余热，提高热效率。
- 10、配置手孔、清灰门，方便和满足用户的使用维护需要。

- 1、Side type structure is adopted to avoid the burner overhead to produce heat upward damage inside the burner parts, also convenient burner installation and maintenance.
- 2、Large size furnace to provide enough radiation heating surface.
- 3、Convection heating surface of the second and third return tube bundle; The second upper return pipe connected to the furnace, flue gas from the upper furnace mouth turning down to smoke chamber, at this time the tobacco smoking temperature is below 600 °C .Flue gas to turn up to the upper furnace reducing, the temperature dropped to about 200 °C .Through reasonable decorate smoke tube, making furnace water evenly heat, reduce boiler water fluctuation and heated thermal stress components, the steam output stability and improve the service life.
- 4、All pipe in the furnace of underwater, there is no steam corrosion.
- 5、On smoke box structure with light structures of fire-resistant insulation materials, convenient maintenance.
- 6、Due to the structure of upper furnace reducing, for achieving the upper boiler gasification space, easy separation, high quality steam.
- 7、Vertical boiler covers an area of small, easy to decorate.
- 8、Particularity due to the vertical steam boiler, up pressure early and gas quickly, Start the energy saving.
- 9、Have a special stainless steel finned heat exchanger, condenser to absorb the tail flue gas waste heat, increase thermal efficiency
- 10、Configuration hand hole, clear ash door, convenient and meet the needs and maintenance of the users.

# 立式燃油（气）蒸汽锅炉技术参数

The technical parameters of Vertical Oil (Gas) Steam Boiler

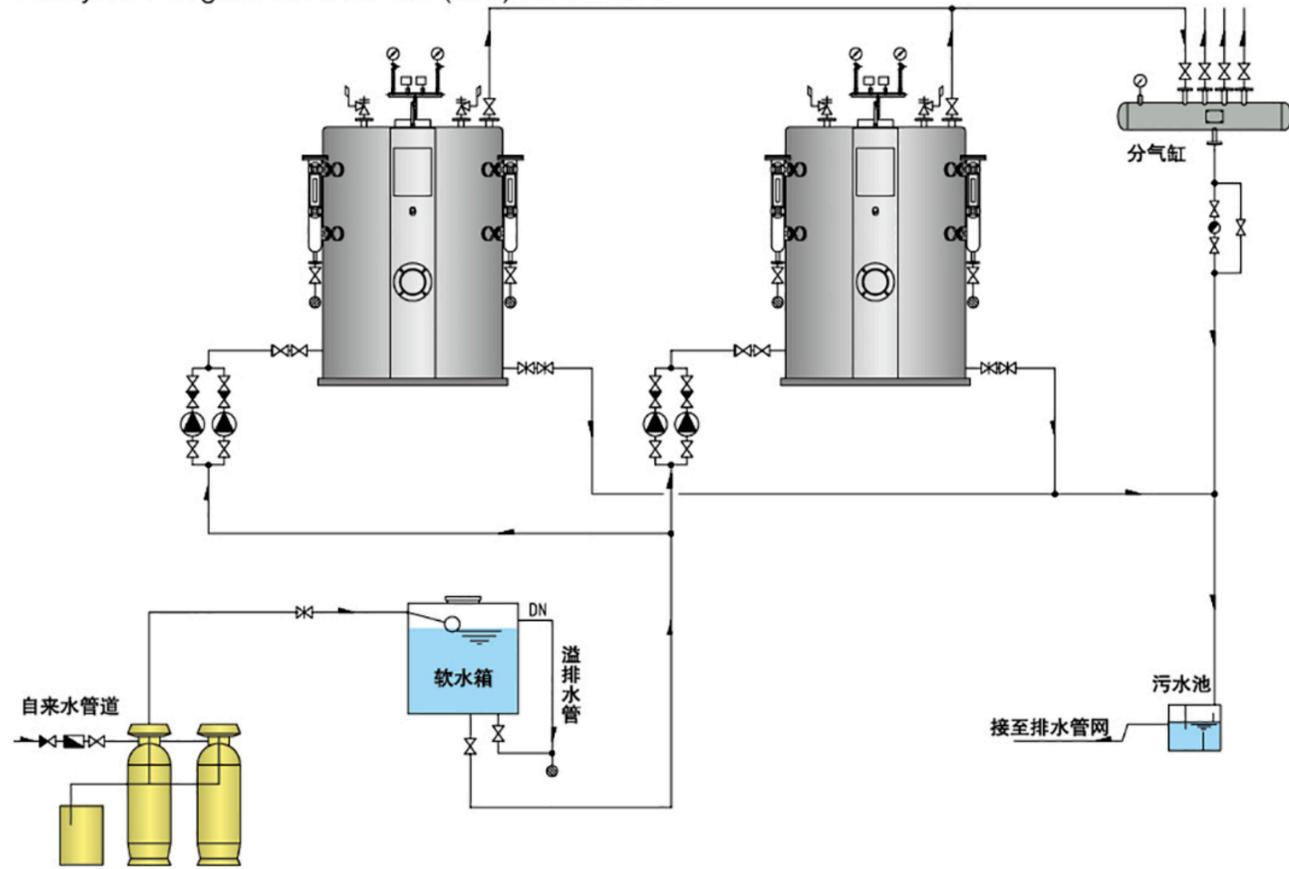
项目 (Item)		LSS0.1	LHS0.2	LHS0.3	LHS0.5
		-0.7	-0.4/0.7		-0.7/1.0
		-Y.Q			
额定蒸发量 (Rated evaporation)	T/h	0.1	0.2	0.3	0.5
额定蒸汽压力 (Rated steam pressure)	MPa	0.7	0.4/0.7		0.7/1.0
饱和蒸汽温度 (Saturated steam temperature)	°C	171	151/171		171/184
额定给水温度 (Feed water temperature)	°C	20			
设计热效率 (Efficiency)	%	92	92.63	93.16	94.8
正常水容量 (Water capacity)	T	0.049	0.86	1.14	1.4
主汽阀口径 (Main steam valve diameter)	mm	20	40	40	40
放汽阀口径 (Discharge valve diameter)	mm		25	25	25
给水口径 (Feed water inlet)	mm	20	25	25	25
排污阀口径 (Drain outlet)	mm	25	40	40	40
安全阀口径 (Safety valve)	mm	32	40	40	40
烟囱直径 (Chimney diameter)	mm	133	219	219	219
外型尺寸 (Size)	长 (Length)	mm	760	1500	1500
	宽 (Width)	mm	760	1500	1500
	高 (Height)	mm	1900	2900	3000
锅炉运输重量 (Transport weight)	T	0.68	1.77	2.2	2.3
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm³/h	8.04	16.47	24.57
	轻油 (Light oil)	Kg/h	6.69	13.72	20.47
	城市煤气 (C.G)	Nm³/h	17.1	34.7	52.2

项目 (Item)		LHS0.75	LHS1	LHS1.5	LHS2
		-0.7/1.0		-1.0/1.25	
		-Y.Q			
额定蒸发量 (Rated evaporation)	T/h	0.75	1	1.5	2
额定蒸汽压力 (Rated steam pressure)	MPa	0.7/1.0		1.0/1.25	
饱和蒸汽温度 (Saturated steam temperature)	°C	171/184		184/193	
额定给水温度 (Feed water temperature)	°C	20			
设计热效率 (Efficiency)	%	94.4	92.73	94	92.55
正常水容量 (Water capacity)	T	2.28	1.91	2.5	2.83
主汽阀口径 (Main steam valve diameter)	mm	50	50	65	65
放汽阀口径 (Discharge valve diameter)	mm	25	25	25	25
给水口径 (Feed water inlet)	mm	25	25	40	40
排污阀口径 (Drain outlet)	mm	40	40	40	50
安全阀口径 (Safety valve)	mm	40	50	40×2	40×2
烟囱直径 (Chimney diameter)	mm	273	273	325	325
外型尺寸 (Size)	长 (Length)	mm	1780	1700	2200
	宽 (Width)	mm	1780	1700	2200
	高 (Height)	mm	2420	3600	3000
锅炉运输重量 (Transport weight)	T	2.8	3.49	5.2	6.59
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm³/h	60.9	82.28	122.9
	轻油 (Light oil)	Kg/h	50.2	68.54	101.4
	城市煤气 (C.G)	Nm³/h	129.4	173	261

说明：1、天然气热值：8500Kcal/Nm³；轻油热值：10300Kcal/Kg；城市煤气热值：4000Kcal/Nm³。2、表中数据及图片仅供参考，产品以实物为准，如因改型而变恕不另行通知。3、预留、预制及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据，此数据仅供参考。

## 立式燃油（气）蒸汽锅炉系统图

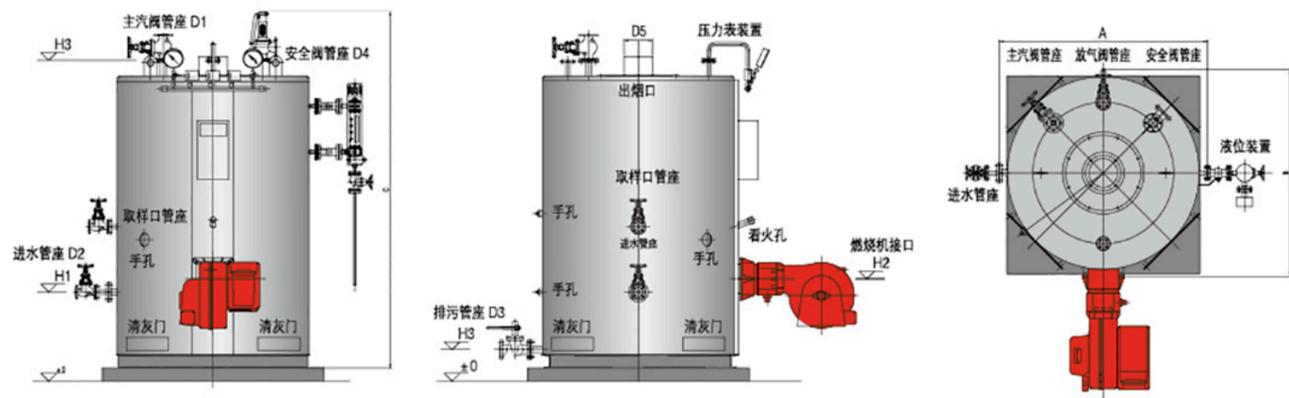
The system diagram of Vertical Oil (Gas) Steam Boiler



注：此图为例示意图，安装以实际安装图纸为准。This is a sketch map and the installation must comply with the drawing of practical.

## 立式燃油（气）蒸汽锅炉尺寸图

The dimensions of Vertical Oil (Gas) Steam Boiler



## 立式燃油（气）蒸汽锅炉尺寸表

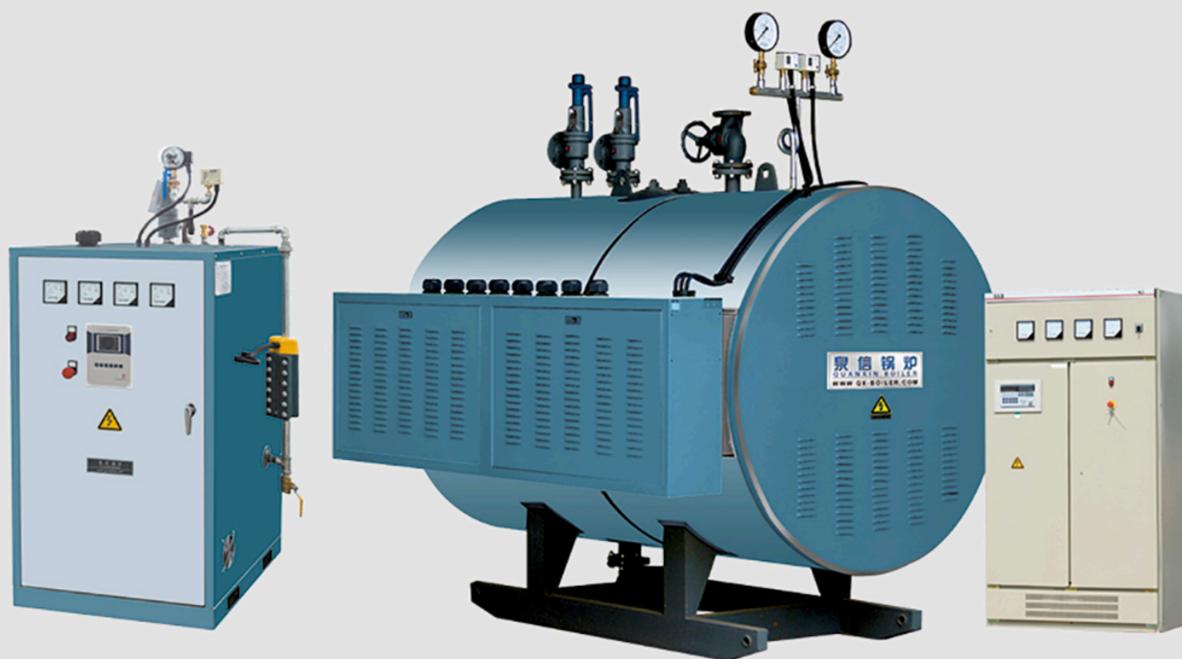
The size table of Vertical Oil (Gas) Steam Boiler

项目 (Item)	A	B	C	H1	H2
LSS0.1	760	760	1875	410	694
LHS0.2	1394	1305	2636	680	740
LHS0.3	1394	1305	2836	680	780
LHS0.5	1600	1585	2936	680	780
LHS0.75	2145	1780	2850	510	700
LHS1	1690	1725	3251	740	890
LHS1.5	2260	2490	3500	520	875
LHS2	2150	2185	3549	890	990

项目 (Item)	H3	D1	D2	D3	D4	D5
LSS0.1	1799	20	20	25	32	133
LHS0.2	2250	40	25	40	40	159
LHS0.3	2450	40	25	40	40	220
LHS0.5	2450	40	25	40	40	220
LHS0.75	2420	50	25	40	40	273
LHS1	2762	50	25	40	50	300
LHS1.5	3100	65	40	40	40×2	350
LHS2	3062	65	40	50	40×2	350

# 电蒸汽锅炉

Electric Steam Boiler



- 1、控制柜强电部分采用国内外名优电器，质量可靠，噪音小，无污染。
- 2、电热元件采用不锈钢材质，与炉体之间采用法兰连接，装拆方便，利于维护和保养。
- 3、电器与电热元件的接线均使用优质高温线，安全可靠。
- 4、采用步进式分时投入法控制电热元件，均匀加热，减少对电网的冲击；加热元件可手动投入或停止，方便用户灵活调整。
- 5、小功率锅炉采用一体式，安装方便；大功率锅炉采用控制柜与本体分离式，确保电器元件在正常工作环境中运行。
- 6、具有电压超高、超低、漏电、缺断相保护。
- 7、具有水位、压力自动运行控制，缺水、超温、超压自动断电并报警保护功能。应用先进的数字化控制技术，可远程精确监控运行过程。控制器采用液晶或触摸屏控制器，自动化程度高，具有操作简便，加热。水位、压力自动控制，超压、缺水保护等联锁保护功能。控制部分中文及图形显示系统工况、在线操作指南、故障自诊断。全自动运行加手动操作可一用一备，实现人机对话。

- 1、High-voltage electrical control part adopts famous electrical appliances at home and abroad, quality is reliable, low noise, no pollution.
- 2、The electric heating element is made of stainless steel material, between the furnace body and the flange connection, convenient installation, and maintenance.
- 3、Electrical connection with electric heating element has been used high quality high temperature wire, safe and reliable.
- 4、Step by step in time-sharing method is used to control the electric heating element, uniform heating, to reduce the impact on the power grid; Heating element can be manually input or stop, convenient and flexible adjustment by the user.
- 5、Small power boiler adopting one-piece, installation is convenient; High power boiler adopts the control cabinet and ontology and separated to ensure electrical components run in the normal working environment.
- 6、With high and low voltage, leakage, lack of phase failure protection.
- 7、With water level and pressure automatic control operation, water shortage, overtemperature and overpressure automatic power and alarm protection function. The application of advanced digital control technology, which can remote precise monitoring operation process. Controller adopts LCD and touch screen controller, a high degree of automation, with the features of easy operation, heating. Water, automatic pressure control, overpressure, water shortage protection interlock protection function. Control part of the Chinese and the graphics display system operating mode, online guide operation and fault self-diagnosis. Automatic operation and manual operation can use a spare, realize the man-machine dialogue

## 电蒸汽锅炉技术参数

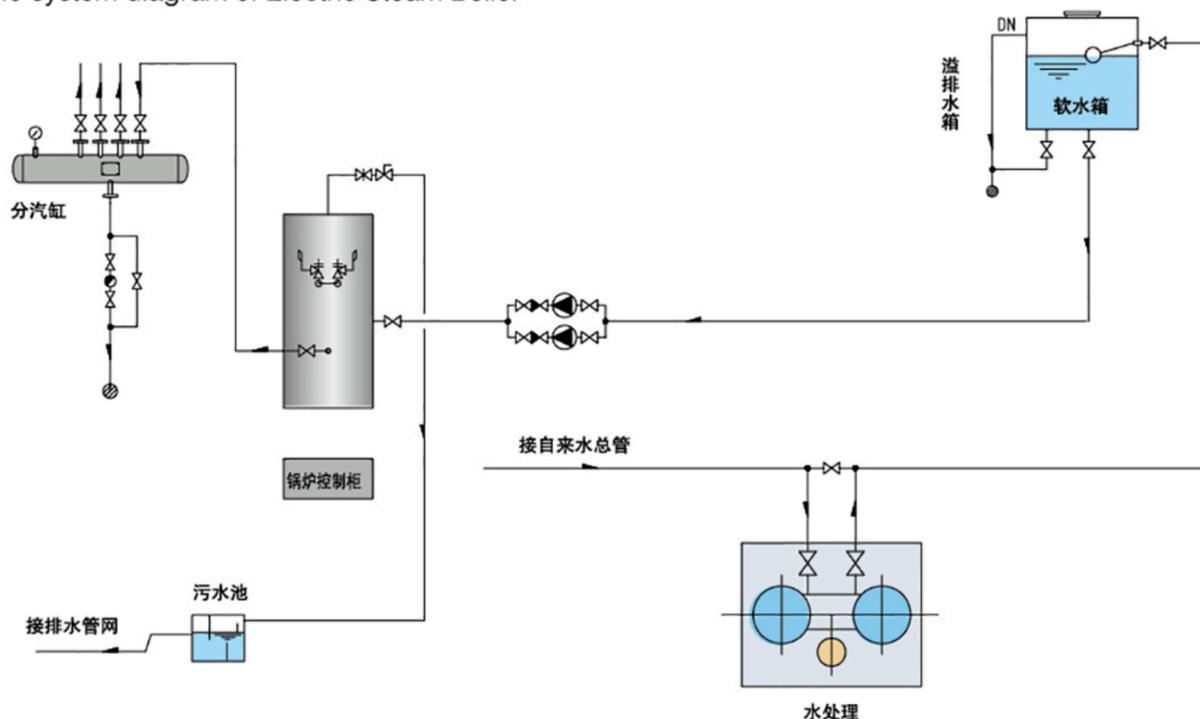
The technical parameters of Electric Steam Boiler

项目 (Item)		LDR0.1	LDR0.2	LDR0.3	LDR0.5	WDR1	WDR1.5	WDR2	
		-0.4/0.7	-0.4/0.7/1.0		-0.7/1.0/1.25				
额定蒸发量 (Rated evaporation)	T/h	0.1	0.2	0.3	0.5	1	1.5	2	
工作压力 (Working pressure)	MPa	0.4/0.7	0.4/0.7/1.0		0.7/1.0/1.25				
额定蒸汽温度 (Steam temperature)	℃	151/171	151/171/184		171/184/193				
额定给水温度 (Feed water temperature)	℃	20							
设计热效率 (Efficiency)	%	98							
额定电压 (Rated voltage)	V	380							
正常水容量 (Water capacity)	T	0.0494	0.21	0.42	0.97	1.62	2.82	2.82	
主汽阀口径 (Main steam valve diameter)	mm	20	32	40	40	50	65	65	
给水口径 (Water inlet)	mm	20	25	25	25	40	40	40	
排污口径 (Drain outlet)	mm	25	25	25	32	40	40	40	
安全阀口径 (Safety valve)	mm	32	40	40	40	40×2	40×2	40×2	
加热管功率 (Heating tube power)	KW	18	24	24	24	30	30	30	
加热管组数 (Heating tube group number)	组	4	6	9	15	25	37	50	
外形尺寸 (Size)	长 (Length)	mm	900	1100	1200	1300	2400	2700	3100
	宽 (Width)	mm	800	1000	1200	1300	2000	2000	2700
	高 (Height)	mm	1300	1400	1800	1900	2300	2400	2500
底座尺寸 (Size of base)	长 (Length)	mm	900	1070	1110	1290	1400	2400	2400
	宽 (Width)	mm	800	1070	1130	1290	900	1150	1200
运输重量 (Transport weight)	T	0.29	0.58	0.8	1.1	2.47	3.49	4.26	

说明：1、表中数据及图片仅供参考，产品以实物为准，如因改型而变更恕不另行通知；2、预制、预留及锅炉房设计前请联系确认有关数据。

## 电蒸汽锅炉热力系统图

The system diagram of Electric Steam Boiler



注：此图为示意图，安装以实际安装图纸为准。This is a sketch map and the installation must comply with the drawing of practical.

# 燃油(气)真空热水锅炉

## Condensing Vacuum Phase-change Hot Water Boiler



- 1、真空锅炉在真空负压状态下运行，炉体上配有机械式超压爆破口，是真正不会爆炸的锅炉，安全性极佳。
- 2、泉信真空炉炉体采用卧式三回程湿背式结构、中心对称布置，能够改善管板的应力分布。湿背式结构燃烧室及烟管完全浸入水中，冷却条件好。大燃烧室设计利于燃烧火焰展开，燃烧充分。
- 3、真空状态下运行，沸点低，汽化潜热(凝结潜热)换热，有效地提高了热效率。
- 4、炉体内储有恒量的热媒水，一次性注入的热媒水在封闭状态下运行，无腐蚀、不结垢，使其使用寿命比普通锅炉多二倍左右，长达20年之久。
- 5、内置特殊处理的不锈钢或铜质换热器，采用法兰装配，方便检修；换热效果佳，升温快。
- 6、换热器与集箱分离，采暖水、热水分路供给，满足用户对采暖水、清洁热水的不同需求。
- 7、在锅炉炉内进行热交换，效率高。整体设计科学、合理、紧凑、节约占地面积50-70%。
- 8、用户无须按锅炉压力容器标准年检、报批，节约费用。
- 9、应用先进的数字化控制技术，可远程精确监控运行过程。控制器采用液晶或触摸屏控制器，自动化程度高，具有操作简便，加热、水位、压力自动控制，超压、缺水保护等联锁保护功能。控制部分中文及图形显示系统工况、在线操作指南、故障自诊断。全自动运行加手动操作可一用一备，实现人机对话。

- 1、Vacuum boiler running under vacuum negative pressure condition, mechanical overpressure blast furnace with the mouth, is really not the explosion of boiler, excellent safety.
- 2、Quanxin vacuum boiler adopts horizontal three return wet back structure, the center symmetric arrangement, can improve the stress distribution of the tube plate. Wet back structure and smoke tube completely submerged combustion chamber, the cooling conditions. Big combustion chamber design for combustion flame, burning full.
- 3、Vacuum operation, low boiling point, latent heat of vaporization, condensation latent heat) heat transfer, thermal efficiency is improved effectively.
- 4、Store has a constant heat medium water in the furnace body, a one-time injection of heat medium water in a closed state, no corrosion, no scaling, make its service life is 2 times more than ordinary boiler or so, as long as 20 years.
- 5、Built-in special processing of stainless steel or copper heat exchanger, using the flange assembly, convenient maintenance; So the heat exchange efficiency, warming faster.
- 6、Heating of the heat exchanger, separating from the header, branch water, hot water supply, to meet the different needs of users for heating water, clean water.
- 7、In the boiler furnace heat exchange, high efficiency. The overall design scientific, reasonable, compact, covers an area of 50-70% saving.
- 8、The user need not according to the standards of boiler pressure vessel annual inspection and approval, saving the cost.
- 9、The application of advanced digital control technology, which can remote precise monitoring operation process. Controller adopts LCD and touch screen controller, a high degree of automation, with the features of easy operation, heating. Water, automatic pressure control, overpressure, water shortage protection interlock protection function. Control part of the Chinese and the graphics display system operating mode, online guide operation and fault self-diagnosis. Automatic operation and manual operation can use a spare, realize the man-machine dialogue

# 燃油(气)真空热水锅炉技术参数

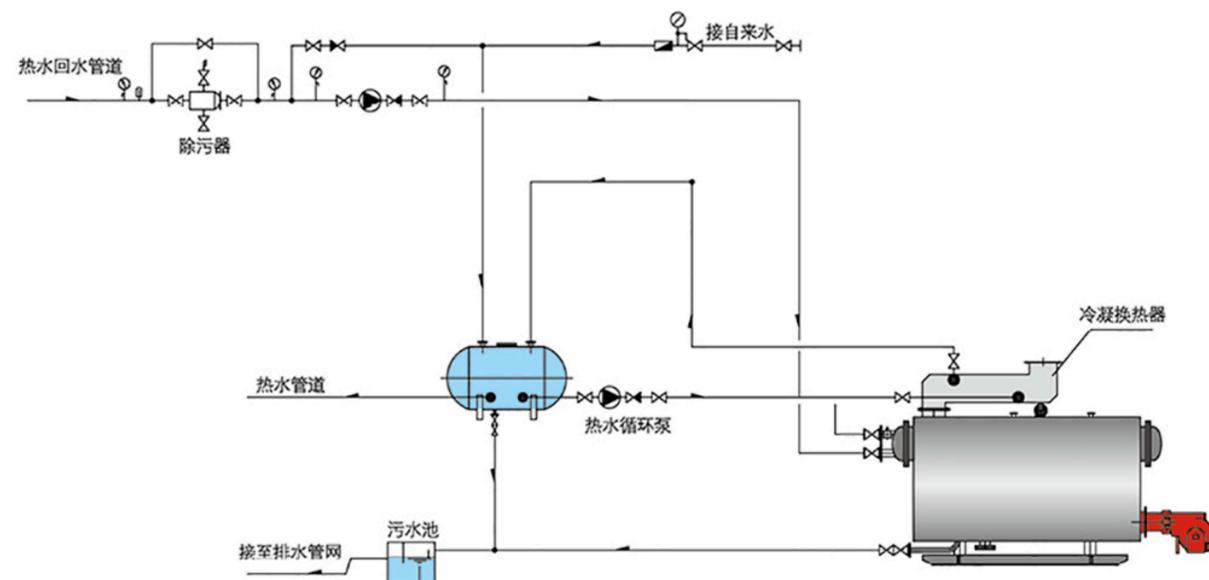
The technical parameters of Condensing Vacuum Phase-change Hot Water Boiler

项目 (Item)	-70(60)/50-Y.Q												
	ZKW0.35	ZKW0.48	ZKW0.6	ZKW0.7	ZKW1.05	ZKW1.4	ZKW1.75	ZKW2.1	ZKW2.8	ZKW3.5	ZKW4.2		
额定发热量 (Rated evaporation)	MW	0.35	0.48	0.6	0.7	1.05	1.4	1.75	2.1	2.8	3.5	4.2	
	10 <sup>4</sup> Kcal	30	40	50	60	90	120	150	180	240	300	360	
额定工作压力 (Working pressure)	MPa	-0.03											
换热器工作压力 (Working pressure of heat exchanger)	MPa	1.0/1.25/1.6											
额定出水温度 (Supply water temperature)	℃	70(Δ t20℃) 60(Δ t10℃)											
额定回水温度 (Return water temperature)	℃	50											
设计热效率 (Efficiency)	%	≥ 92(配冷凝器可达 96)											
锅炉水容量 (Water capacity)	T	1.2	1.42	1.81	2.16	3.2	3.2	4.8	5.2	4.73	7.2	9.8	
出水口 (单换) Water outlet(Single change)	Δ t20℃	65		80		100		125		150		200	
	Δ t10℃	80		100		125		150		200		250	
回水口 (单换) Water inlet(Single change)	Δ t20℃	65		80		100		125		150		200	
	Δ t10℃	80		100		125		150		200		250	
排污口 (Drain outlet)	mm	40											
出烟口直径 (Chimney diameter)	mm	219	219	219	273	300	300	426	426	425	500	550	
外形尺寸 (Size)	长 (Length)	3300	3970	4030	4130	4365	4765	4300	4440	6010	5200	6100	
	宽 (Width)	1360	1470	1580	1680	1780	1780	1880	1920	2050	2220	2650	
	高 (Height)	1800	1950	2100	2200	2350	2350	2360	2420	2430	2800	3220	
底座尺寸 (Size of base)	长 (Length)	2600	2800	2800	2950	3400	3800	3400	3600	4900	4300	4800	
	宽 (Width)	1000	1100	1200	1300	1400	1400	1400	1500	1600	1800	2100	
运输重量 (Transport weight)	T	3.47	3.93	4.67	4.95	5.27	5.73	7	8.6	9.64	13	13.6	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	34.6	43.52	57.25	75.93	103.69	137.7	183.8	230.7	302.58	388.4	452.25
	轻油 (Light oil)	Kg/h	28.8	36.09	47.48	62.97	85.99	114.2	161.8	190.8	250.92	320.6	375.03
	城市煤气 (C.G)	Nm <sup>3</sup> /h	81.26	111.2	138	165.7	249.04	334.7	416.7	490.23	662.5	825.35	976.8

说明: 1、天然气热值: 8500Kcal/Nm<sup>3</sup>; 轻油热值: 10300Kcal/Kg; 城市煤气热值: 4000Kcal/Nm<sup>3</sup>。2、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变恕不另行通知。3、预留、预设计及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据, 此数据仅供参考。

# 燃油(气)真空热水锅炉热力系统图

The system diagram of Condensing Vacuum Phase-change Hot Water Boiler



注: 此图为示意图, 安装以实际安装图纸为准。This is a sketch map and the installation must comply with the drawing of practical.

# 电真空热水锅炉

Electric Vacuum Hot Water Boiler



- 1、以电为加热源，能效高达 98% 以上。
- 2、机组真空负压运行，热煤处于真空状态，炉体上没有机械式超压爆破口，不存在膨胀、爆炸的危险；炉体内储有恒量的热煤水，没有干烧的危险；多重自动保护装置，具有其他锅炉无法比拟的安全性。
- 3、热交换器采用优质不锈钢材料，一次性注入的热煤水在封闭状态下运行，无腐蚀、不结垢，使其使用寿命比普通锅炉多二倍左右，长达 20 年之久。
- 4、热交换器与集箱分离，采暖水、热水分路供给，满足用户对采暖水、清洁热水的不同需求。
- 5、模块化设计，高性能换热组件，机组体积小，使产品易于运输、布置和安装；在下空间内，多台机组可并联使用。
- 6、采用高品质不锈钢电加热管，使用寿命长；与炉体之间采用法兰连接，装卸方便。
- 7、机组处于真空状态运行，简化了锅炉各项繁杂的报批手续。
- 8、应用先进的数字化控制技术，可远程精确监控燃烧过程。控制器采用液晶或触摸屏控制器，自动化程度高，具有操作简便，燃烧、水位、温度自动控制，检漏报警，超压、超温、缺水保护等联锁保护和防冻及定时功能。控制部分中文及图形显示系统工况、在线操作指南、故障自诊断。全自动运行加手动操作可一用一备，实现人机对话。
- 9、控制柜电部分采用国内外名优电器，质量可靠，所有元件具有 CCC 或 CE 认证，使整个锅炉运行稳定可靠。

- 1、Based on electrical heating sources, energy efficiency is as high as 98% above.
- 2、Vacuum negative pressure operation, thermal coal in the vacuum state, there is no mechanical overpressure blast furnace mouth, there is no inflation, explosion danger; Inside the furnace body with constant thermal coal storage water, there is no risk of dry; Multiple automatic protection device, with other boiler safety.
- 3、Heat exchanger is made of high quality stainless steel material, one-off injection of heat medium water in a closed state, no corrosion, no scaling, make its service life is 2 times more than ordinary boiler or so, as long as 20 years.
- 4、Heating of the heat exchanger, separating from the header, branch water, hot water supply, to meet the different needs of users for heating water, clean water.
- 5、Modular design, high performance heat transfer components, unit volume is small, make the product easy to transport, arrangement and installation; In space, multiple units can be used in parallel.
- 6、Using high quality stainless steel electric heating tube, service life is long; Between the furnace body and the flange connection, easy loading and unloading.
- 7、The vacuum operation of the unit, simplifies the multifarious formalities for boiler.
- 8、The application of advanced digital control technology, which can remote accurately monitor the combustion process. LCD and touch screen controller, controller USES a high degree of automation, with the features of easy operation, combustion, water level, temperature automatic control, leak detection alarm, overpressure, water shortage protection interlock protection, overtemperature and antifreeze and timing function. Control part of the Chinese and the graphics display system operating mode, online guide operation and fault self-diagnosis. Automatic operation and manual operation can use a spare, realize the man-machine dialogue.
- 9、Control cabinet electrical part adopts domestic and international famous electric equipment, reliable quality, all components with CCC and CE certification, make the whole boiler Operation is stable and reliable.

## 电真空热水锅炉技术参数

The technical parameters of Electric Vacuum Hot Water Boiler

项目 (Item)		ZKW0.35	ZKW0.48	ZKW0.6	ZKW0.7	ZKW1.05	ZKW1.4	
		-70(60)/50-D						
额定发热量 (Rated evaporation)	MW	0.35	0.48	0.6	0.7	1.05	1.4	
	10 <sup>4</sup> Kcal	30	40	50	60	90	120	
额定工作压力 (Working pressure)	MPa	-0.03						
换热器工作压力 (Working pressure of heat exchanger)	MPa	1.0/1.25/1.6						
额定出水温度 (Supply water temperature)	℃	70 (Δ t20℃) 60 (Δ t10℃)						
额定回水温度 (Return water temperature)	℃	50						
设计热效率 (Efficiency)	%	98						
锅炉水容量 (Water capacity)	T	1.3	1.7	2.1	2.3	2.9	3.6	
出水口 (单换) Water outlet(Single change)	Δ t20℃	mm	65		80		100	
	Δ t10℃	mm	80	100		125	150	
回水口 (单换) Water inlet(Single change)	Δ t20℃	mm	65		80		100	
	Δ t10℃	mm	80	100		125	150	
排污口 (Drain outlet)	mm	40						
加热管功率 (Heating tube power)	KW	30	30	30	30	30	30	
加热管组数 (Heating tube group number)	组	12	16	20	24	35	48	
外形尺寸 (Size)	长 (Length)	mm	2750	3000	3000	3150	3450	3450
	宽 (Width)	mm	1120	1220	1360	1360	1360	1580
	高 (Height)	mm	1600	1750	1950	1950	2100	2350
底座尺寸 (Size of base)	长 (Length)	mm	1800	2000	2000	2100	2500	2500
	宽 (Width)	mm	800	900	1000	1000	1100	1300
运输重量 (Transport weight)	T	1.65	1.95	2.2	2.3	3	3.95	

说明：1、表中数据及图片仅供参考，产品以实物为准，如因改型而变更恕不另行通知；2、预制、预留及锅炉房设计前请联系确认有关数据。

# 燃油(气)间接加热热水锅炉

Condensing Indirect-heating Type Hot Water Boiler



- 1、泉信间接加热热水锅炉炉体采用卧式三回程湿背式结构、中心对称布置,能改善板管的应力分布。湿背式结构燃烧室及烟箱管完全浸入水中,冷却条件好。大燃烧室设计利于燃烧火焰展开,燃烧充分。
- 2、本体下半部分同普通热水锅炉一样,由燃烧室和传热管组成;上半部装有热交换器,炉体上部装设膨胀水箱且水位自动控制。
- 3、锅炉整体是在常压状态下运行,安全可靠;炉内热媒水在运行中不进不出,在锅炉内与热交换器传热。热媒水经加热完全脱离氧和软化,无腐蚀,无水垢,使其使用寿命比普通锅炉多二倍左右,长达20年之久。
- 4、内置经特殊处理的不锈钢或铜质换热器,换热效果好,升温快。
- 5、机组结构紧凑,运输安装方便,节约占地,免去了换热站的设计与施工,工程费用省。
- 6、应用先进的数字化控制技术,可远程精确监控燃烧过程。控制柜强电部分采用国内外名优电器,质量可靠;控制器采用液晶或触摸屏控制器,自动化程度高,具有操控简便,燃烧、水位、温度自动控制,检漏报警,超压、超温、缺水保护等联锁保障功能。
- 7、出烟口增设冷凝换热器,换热管采用螺旋翅片强化吸收烟气中的显热和潜热,降低排烟温度,提高锅炉的效率(达95%以上)。

- 1、Quanxin indirect heating hot water boiler furnace adopts horizontal three return wet back structure, center symmetrical layout, can improve the stress distribution of plate tube. Wet back structure smoke chamber and equipment control fully immersed in water, cooling condition is good. Big combustion chamber design for combustion flame, burning full.
- 2、The lower part of ontology with ordinary hot water boiler, consists of the combustion chamber and the pipe. Equipped with a heat exchanger, on the upper furnace body upper installed expansion tank and the water level automatic control.
- 3、Boiler as a whole is running under atmospheric pressure condition, safe and reliable; In the operation of the furnace heating medium water not in and not out. within the boiler and heat exchanger heat transfer. Heat medium heating completely off the oxygen and water softening, no corrosion, no scale, make its service life is 2 times more than ordinary boiler or so, as long as 20 years.
- 4、Built-in through special processing of stainless steel or copper heat exchanger, heat exchange effect is good, warming faster.
- 5、Compact structure, convenience to transport installation, covers an area of saving, removes heat exchanger station design and construction of engineering cost.
- 6、The application of advanced digital control technology, which can remote accurately monitor the combustion process. High-voltage electrical control part adopts famous electrical appliances at home and abroad, quality and reliable; LCD and touch screen controller, controller USES a high degree of automation, with the features of easy manipulation, combustion, water level, temperature automatic control, leak detection alarm, overpressure and overtemperature, water shortage protection interlock protection function.
- 7、The stack nozzle add condensing heat exchanger, heat exchange tube with spiral finned absorb the sensible heat and latent heat in flue gas, reduce exhaust temperature, improve the efficiency of the boiler (above 95%).

## 燃油(气)间接加热热水锅炉技术参数

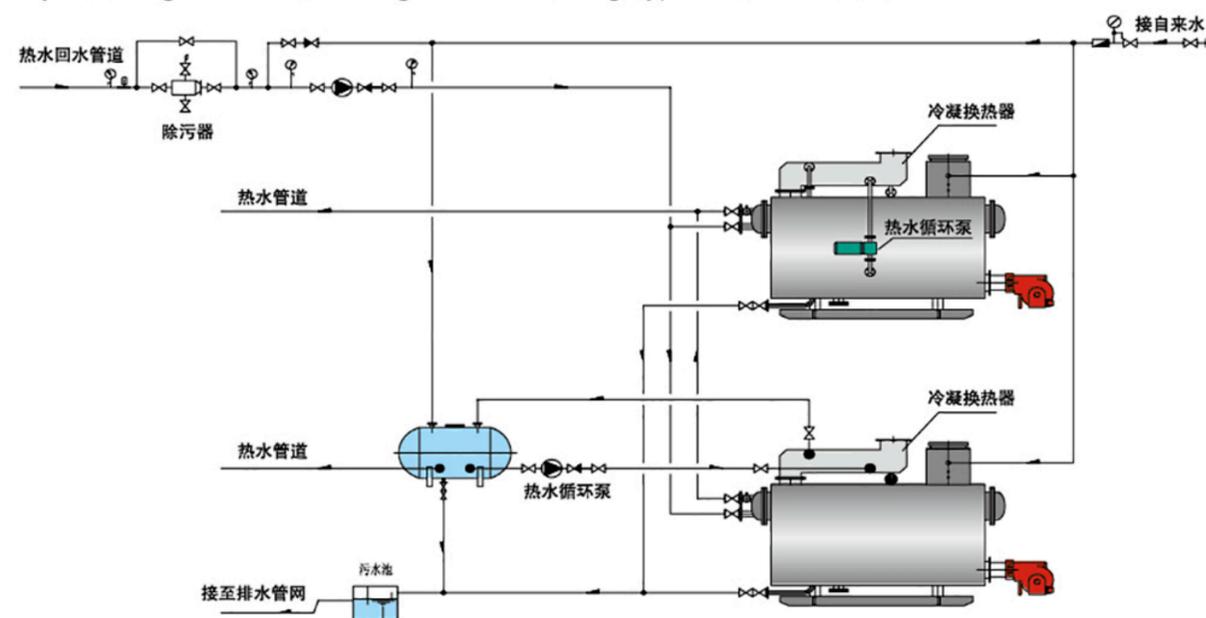
The technical parameters of Condensing Indirect-heating Type Hot Water Boiler

项目 (Item)		CWNS0.35	CWNS0.48	CWNS0.6	CWNS0.7	CWNS1.05	CWNS1.4	CWNS1.75	CWNS2.1	CWNS2.8	CWNS3.5	CWNS4.2	
		-60/50(40)(J)-Y.Q											
额定发热量 (Rated evaporation)	MW	0.35	0.48	0.6	0.7	1.05	1.4	1.75	2.1	2.8	3.5	4.2	
	10 <sup>4</sup> Kcal	30	40	50	60	90	120	150	180	240	300	360	
额定工作压力 (Working pressure)	MPa	常压											
换热器工作压力 (Working pressure of heat exchanger)	MPa	1.0/1.25/1.6											
额定出水温度 (Supply water temperature)	°C	60											
额定回水温度 (Return water temperature)	°C	40 (Δ t20°C) 50 (Δ t10°C)											
设计热效率 (Efficiency)	%	≥ 92											
锅炉水容量 (Water capacity)	T	1.81	1.81	2.2	2.8	4.3	4.38	4.8	5.2	5.8	7.2	9.8	
出水口 (单换) Water outlet(Single change)	Δ t20°C	65		80		100		125		150		200	
	Δ t10°C	80		100		125		150		200		250	
回水口 (单换) Water inlet(Single change)	Δ t20°C	65		80		100		125		150		200	
	Δ t10°C	80		100		125		150		200		250	
排污口 (Drain outlet)	mm	40											
出烟口直径 (Chimney diameter)	mm	219	219	273	273	325	325	426	426	450	500	550	
外形尺寸 (Size)	长 (Length)	3475	3445	3600	3600	3700	4860	4300	4440	4800	5280	5800	
	宽 (Width)	1360	1360	1580	1680	1780	1680	1880	1920	2000	2220	2300	
	高 (Height)	2090	2090	2380	2480	2630	2560	2750	2830	2950	3160	3220	
底座尺寸 (Size of base)	长 (Length)	2600	2600	3000	3000	3000	3500	3400	3600	3900	4300	5000	
	宽 (Width)	1000	1000	1200	1200	1300	1300	1400	1500	1600	1800	2000	
运输重量 (Transport weight)	T	2.98	3	3.5	4	5.2	5.95	7.4	9	11.8	13.6	16.5	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	39.78	54.3	61.2	77.8	117.5	159.32	184	230.5	311	388	460
	轻油 (Light oil)	Kg/h	33.18	45.03	54	64.3	97.6	132.12	162	190	258	320	380
	城市煤气 (C.G)	Nm <sup>3</sup> /h	81.2	111.2	138	165.4	249.7	334.8	417	490	662	825	978

说明: 1、天然气热值: 8500Kcal/Nm<sup>3</sup>; 轻油热值: 10300Kcal/Kg; 城市煤气热值: 4000Kcal/Nm<sup>3</sup>。2、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变恕不另行通知。3、预留、预制及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据, 此数据仅供参考。

## 燃油(气)间接加热热水锅炉热力系统图

The system diagram of Condensing Indirect-heating Type Hot Water Boiler



注: 此图为示意图, 安装以实际安装图纸为准。This is a sketch map and the installation must comply with the drawing of practical.

## 电间接加热热水锅炉

Electric Indirect non-pressure Hot Water Boiler



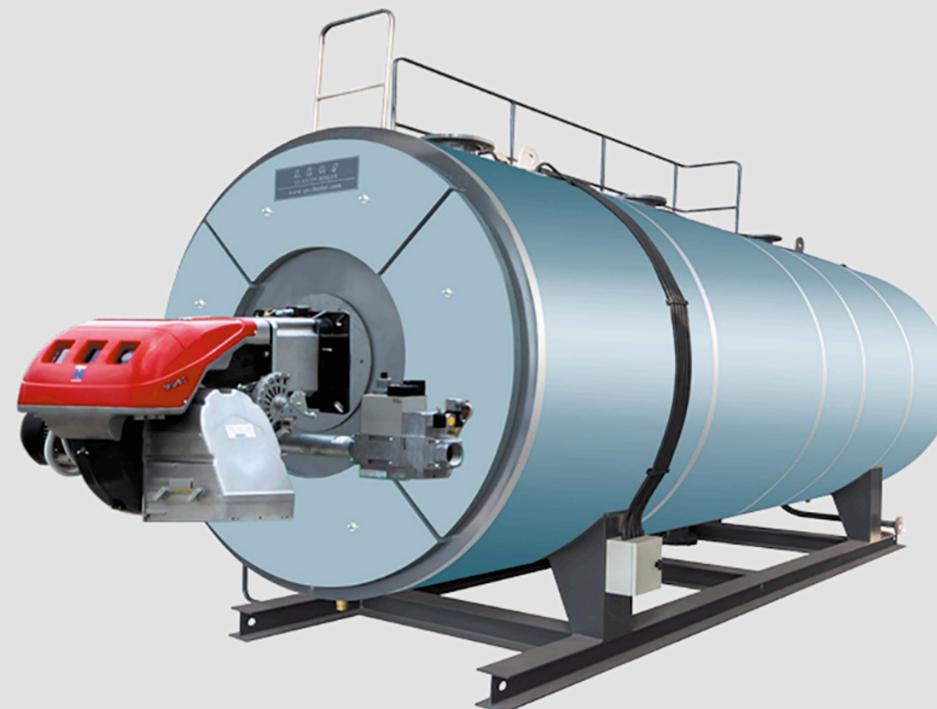
### 电间接加热热水锅炉技术参数

The technical parameters of Electric Indirect non-pressure Hot Water Boiler

项目 (Item)		CWDR0.35	CWDR0.48	CWDR0.6	CWDR0.7	CWDR1.05	CWDR1.4	
		-60/50(40)(J)-D						
额定发热量 (Rated evaporation)	MW	0.35	0.48	0.6	0.7	1.05	1.4	
	10 <sup>4</sup> Kcal	30	40	50	60	90	120	
额定工作压力 (Working pressure)	MPa	常压						
换热器工作压力 (Working pressure of heat exchanger)	MPa	1.0/1.25/1.6						
额定出水温度 (Supply water temperature)	°C	60						
额定回水温度 (Return water temperature)	°C	40 (Δ t20°C) 50 (Δ t10°C)						
设计热效率 (Efficiency)	%	98						
锅炉水容量 (Water capacity)	T	1.3	1.7	2.1	2.3	2.9	3.6	
出水口 (单换) Water outlet(Single change)	Δ t20°C	65		80		100		
	Δ t10°C	80	100		125	150		
回水口 (单换) Water inlet(Single change)	Δ t20°C	65		80		100		
	Δ t10°C	80	100		125	150		
排污口 (Drain outlet)	mm	40						
加热管功率 (Heating tube power)	KW	30	30	30	30	30	30	
加热管组数 (Heating tube group number)	组	12	16	20	24	35	48	
外形尺寸 (Size)	长 (Length)	mm	2750	3000	3000	3150	3450	3450
	宽 (Width)	mm	1120	1220	1360	1360	1360	1580
	高 (Height)	mm	1850	2000	2200	2200	2400	2600
底座尺寸 (Size of base)	长 (Length)	mm	1800	2000	2000	2100	2500	2500
	宽 (Width)	mm	800	900	1000	1000	1100	1300
运输重量 (Transport weight)	T	1.75	2.05	2.3	2.5	3.2	4.1	

## 卧式燃油(气)常压热水锅炉

Horizontal Condensing Atmospheric Pressure Hot Water Boiler



- ①、采用卧式内燃湿背式烟气三回程结构，结构合理紧凑。
- ②、锅炉采用波形炉胆和螺纹烟管，强化传热效果，提高热效率。
- ③、前后可拆卸烟箱门，方便锅炉维修和检修。
- ④、通过对燃烧机和循环水泵启停温度的设置，控制系统按设定的条件自动运行，同时实现显示系统工况、出水温度。在出现故障时显示报警信息。
- ⑤、手动运行在手动状态下，可直接对循环水泵和燃烧器进行操作，当发生故障时作相应指示，拒绝手动操作，确保系统安全。
- ⑥、应用先进的数字化控制技术，可远程精确监控燃烧过程。控制柜强电部分采用国内外名优电器，质量可靠；控制器采用液晶或触摸屏控制器，自动化程度高，具有操作简便，燃烧、水位、温度自动控制，检漏报警，超压、超温、缺水保护等连锁保障和防冻及定时功能。控制部分中文及图形显示系统工况、在线操作指南、故障自诊断。全自动运行加手动操作可一用一备，实现人机对话。
- ⑦、出烟口可增设冷凝换热器，降低排烟温度吸收烟气中的显热和潜热，提高锅炉的效率（达95%以上）。

- ①、Using horizontal combustion wet type flue gas back three return structure, compact and reasonable structure.
- ②、Boiler using waveform furnace and threaded pipe, strengthening heat transfer effect, improve the thermal efficiency.
- ③、Before and after the smoke door is able to remove, convenient maintenance and overhaul boiler.
- ④、Through to the combustion engine and the circulating pump start-up temperature Settings, control system according to the conditions set to run automatically, at the same time realize the display system operating mode, the return water temperature. In the event of a failure display alarm information.
- ⑤、Manually run in manual mode, can be directly to the circulating water pump and the burner, the corresponding instructions when a failure occurs, refused to manual operation, ensure the security of the system.
- ⑥、The application of advanced digital control technology, which can remote accurately monitor the combustion process. High-voltage electrical control part adopts famous electrical appliances at home and abroad, quality and reliable; LCD and touch screen controller, controller USES a high degree of automation, with the features of easy operation, combustion, water level, temperature automatic control, leak detection alarm, overpressure, water shortage protection interlock protection, overtemperature and antifreeze and timing function. Control part of the Chinese and the graphics display system operating mode, online guide operation and fault self-diagnosis. Automatic operation and manual operation can use a spare, realize the man-machine dialogue.
- ⑦、The stack nozzle can add condensing heat exchanger, reduce exhaust temperature absorb the sensible heat and latent heat in flue gas, improve the efficiency of the boiler (above 95%).

## 卧式燃油（气）常压热水锅炉技术参数

The technical parameters of Horizontal Condensing Atmospheric Pressure Hot Water Boiler

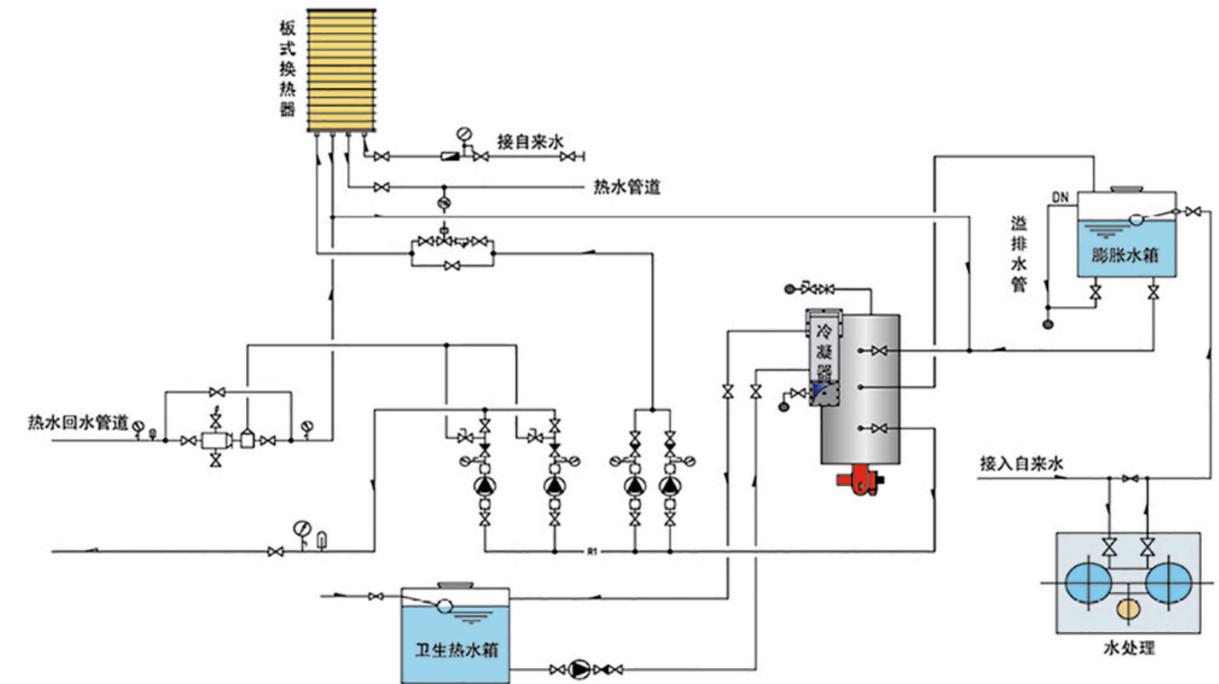
项目 (Item)		CWNS0.24	CWNS0.35	CWNS0.48	CWNS0.6	CWNS0.7	CWNS0.82	CWNS1.05	CWNS1.4	
		-85/65-Y.Q								
额定发热量 (Rated evaporation)	MW.h	0.24	0.35	0.48	0.6	0.7	0.8	1.05	1.4	
	10 <sup>4</sup> Kcal	20	30	40	50	60	70	90	120	
额定工作压力 (Working pressure)	MPa	常压								
额定出水温度 (Supply water temperature)	℃	85								
额定回水温度 (Return water temperature)	℃	65								
设计热效率 (Efficiency)	%	92.05	92.4	92.4	93	93.36	93.28	93.29	93.59	
水容量 (Water capacity)	T	0.61	1.18	1.22	1.58	1.6	1.7	2.5	2.6	
出水口 (Water outlet)	mm	50	65	65	80	80	100	100	100	
进水口 (Water inlet)	mm	50	65	65	80	80	100	100	100	
大气连通口 (Continuous atmospheric port)	mm	50	65	65	80	80	100	100	125	
排污口 (Drain outlet)	mm	40	40	40	40	50	50	50	50	
烟囱直径 (Chimney diameter)	mm	159	219	219	273	273	273	325	325	
外型尺寸 (Size)	长 (Length)	mm	2300	2442	2670	2880	3150	3200	3390	3790
	宽 (Width)	mm	920	1220	1220	1360	1360	1360	1360	1470
	高 (Height)	mm	1328	1612	1612	1750	1780	1780	1865	1975
底座尺寸 (Size of base)	长 (Length)	mm	1830	2000	2300	2400	2730	2780	2880	3230
	宽 (Width)	mm	700	800	800	900	1000	1000	1000	1100
锅炉运输重量 (Transport weight)	T	1.3	1.56	1.8	2.33	3.63	3.74	4.2	4.66	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	25.4	38.68	53.03	65.27	75.86	88.94	126.9	151.34
	轻油 (Light oil)	Kg/h	21.3	31.8	45.1	56.2	62.9	73.76	105.2	125.8
	城市煤气 (C.G)	Nm <sup>3</sup> /h	56.1	82.2	112.7	139.4	166.2	189.7	249	332.6

项目 (Item)		CWNS1.75	CWNS2.1	CWNS2.45	CWNS2.8	CWNS3.5	CWNS4.2	CWNS5.6	CWNS7	
		-85/65-Y.Q								
额定发热量 (Rated evaporation)	MW.h	1.75	2.1	2.45	2.8	3.5	4.2	5.6	7	
	10 <sup>4</sup> Kcal	150	180	210	240	300	360	480	600	
额定工作压力 (Working pressure)	MPa	常压								
额定出水温度 (Supply water temperature)	℃	85								
额定回水温度 (Return water temperature)	℃	65								
设计热效率 (Efficiency)	%	93.49	93.53	92.45	93.16	92.1	93.93	94.26	94.29	
水容量 (Water capacity)	T	2.6	2.8	3.16	3.2	5.1	8.3	11.4	13.9	
出水口 (Water outlet)	mm	125	125	150	150	200	200	250	250	
进水口 (Water inlet)	mm	125	125	150	150	200	200	250	250	
大气连通口 (Continuous atmospheric port)	mm	125	150	150	150	200	200	250	250	
排污口 (Drain outlet)	mm	50	50	50	50	50	50	50×2	50×2	
烟囱直径 (Chimney diameter)	mm	426	426	450	450	500	550	650	700	
外型尺寸 (Size)	长 (Length)	mm	3890	4010	4250	4310	4550	5400	5860	6610
	宽 (Width)	mm	1580	1580	1680	1680	1950	2100	2150	2500
	高 (Height)	mm	2085	2060	2466	2182	2466	2720	2700	3020
底座尺寸 (Size of base)	长 (Length)	mm	3280	3400	3600	3700	4350	4580	5400	5810
	宽 (Width)	mm	1200	1200	1200	1200	1500	1600	1700	1900
锅炉运输重量 (Transport weight)	T	5.4	5.9	6.15	6.5	8	9.7	12.4	16.12	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	189.38	227.16	270.7	320.5	389.8	452.4	601.12	751.1
	轻油 (Light oil)	Kg/h	157.05	192.1	222.8	264.7	321.7	375.1	498.5	622.9
	城市煤气 (C.G)	Nm <sup>3</sup> /h	416.7	494.3	575.2	656.2	828.3	961.4	1281	1595

说明: 1、天然气热值: 8500Kcal/Nm<sup>3</sup>; 轻油热值: 10300Kcal/Kg; 城市煤气热值: 4000Kcal/Nm<sup>3</sup>。2、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变恕不另行通知。3、预留、预制及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据, 此数据仅供参考。

## 卧式燃油（气）常压热水锅炉热力系统图

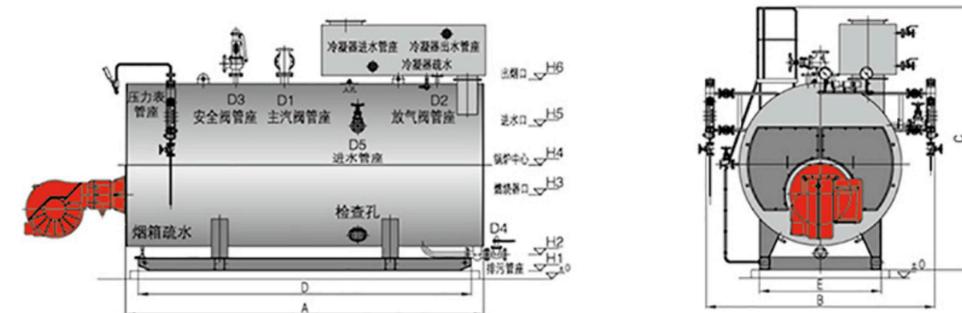
The system diagram of Horizontal Condensing Atmospheric Pressure Hot Water Boiler



注: 此图为示意图, 安装以实际安装图纸为准。This is a sketch map and the installation must comply with the drawing of practical.

## 卧式燃油（气）常压热水锅炉尺寸表

The size table of Horizontal Condensing Atmospheric Pressure Hot Water Boiler



项目	L	L1	L2	L3	L4	L5	W	W1	H	H1
CWNS0.24	2150	540	450	450	535	1830	920	700	1328	729
CWNS0.35	2292	415	625	475	560	2000	1220	800	1612	866
CWNS0.48	2520	415	775	475	560	2300	1220	800	1612	866
CWNS0.6	2730	450	695	500	805	2400	1360	900	1750	951
CWNS0.7	3000	410	750	750	840	2730	1360	1000	1780	960
CWNS0.82	3050	460	750	750	840	2780	1360	1000	1780	960
CWNS1.05	3240	540	750	800	540	2880	1360	1000	1865	1045
CWNS1.4	3650	590	850	1050	870	3230	1470	1100	1975	1100
CWNS1.75	3740	690	850	1000	895	3280	1580	1200	2085	1155
CWNS2.1	3880	900	700	1100	815	3400	1580	1200	2060	1150
CWNS2.45	4250	830	1400	600	840	3600	1680	1200	2182	1206
CWNS2.8	4330	950	1400	600	840	3700	1680	1200	2182	1206
CWNS3.5	4550	950	1200	1100		4350	1950	1500	2466	1408
CWNS4.2	5350	810	1500	1580		4580	2100	1600	2720	1428
CWNS5.6	5860	910	1600	1700		5400	2150	1700	2700	1350
CWNS7	6610	960	2200	1850		5810	2500	1900	3020	1630

# 立式燃油(气)常压热水锅炉

Vertical Atmospheric Pressure Hot Water Boiler



- 1、分为取暖型、兼用型、温水型(本体镀锌处理)及不锈钢本体型。从功能上分为取暖、洗浴、兼用三种。兼用型的内部分为采暖、洗浴两个系统,洗浴用水由内置的铜管提供,水质更健康。
- 2、炉体设计优化,受热面积大,热效率高、升温快,供应热水充足。
- 3、配置智能电脑控制器,有过热保护、缺水保护和自检、防冻及定时功能。
- 4、自动化程度高,补水、燃烧、温控、循环自动操作。状态显示丰富。
- 5、整体布置紧凑,占地小,安装方便;色泽鲜亮美观。

- 1、Divided into warming, all-purpose, warm water galvanized processing (ontology) and stainless steel in this shape. Divided into heating, wash bath from the function, the combination of three. Internal divided into heating, bathing under the two systems, water bath is provided by the built-in copper pipe, the water quality is more healthy.
- 2、Furnace design optimization, large heating area, high thermal efficiency, heating up fast, supply hot water.
- 3、Configure intelligent computer controller, has overheating protection, water protection and self-checking, antifreeze, and timing function.
- 4、A high degree of automation, hydrating, combustion, temperature control, automatic cycle operation. Status display.
- 5、The overall layout is compact, covers an area of small, easy installation; Colour and lustre is bright beautiful.

## 立式燃油(气)常压热水锅炉技术参数

The technical parameters of Vertical Atmospheric Pressure Hot Water Boiler

项目(Item)		CLHS0.035	CLHS0.06	CLHS0.08	CLHS0.12	CLHS0.18	CLHS0.24	
		-85/65-Y.Q						
额定发热量 (Rated evaporation)	MW.h	0.035	0.06	0.08	0.12	0.18	0.24	
	10 <sup>4</sup> Kcal	3	5	7	10	15	20	
额定工作压力 (Working pressure)	MPa	常压						
额度出 / 回水温度 (Supply water /Return watertempera- ture)	℃	85/65						
设计热效率 (Efficiency)	%	86~90						
水容量 (Water capacity)	L	112	95	110	170	190	342	
出水口 (Water outlet)	mm	40	50	50	50	50	50	
进水口 (Water inlet)	mm	40	50	50	50	50	50	
大气连通口 (Continuous atmospheric port)	mm	40	50	50	50	50	50	
排污口 (Drain outlet)	mm	40	50	50	50	50	50	
烟囱直径 (Chimney diameter)	mm	114	133	133	159	159	219	
外型尺寸 (Size)	长 (Length)	mm	510	590	590	690	850	
	宽 (Width)	mm	560	640	640	740	850	
	高 (Height)	mm	1260	1290	1440	1520	1720	1830
底座尺寸 (Size of base)	长 (Length)	mm	510	590	590	690	850	
	宽 (Width)	mm	510	590	590	690	850	
锅炉运输重量 (Transport weight)	Kg	164	230	270	345	390	555	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	4.02	6.4	9.4	13.4	20	27
	轻油 (Light oil)	Kg/h	3.43	5.2	7.8	11	17	22
	城市煤气 (C.G)	Nm <sup>3</sup> /h	8.23	14.6	17.84	28.9	43.1	57.7

项目 (Item)		CLHS0.35	CLHS0.48	CLHS0.6	CLHS0.7	CLHS1.05	CLHS1.4	
		-85/65						
额定发热量 (Rated evaporation)	MW.h	0.35	0.48	0.6	0.7	1.05	1.4	
	10 <sup>4</sup> Kcal	30	40	50	60	90	120	
额定工作压力 (Working pressure)	MPa	常压						
额度出 / 回水温度 (Supply water /Return watertempera- ture)	℃	85/65						
设计热效率 (Efficiency)	%	89~92						
水容量 (Water capacity)	L	690	820	960	1260	2100	2680	
出水口 (outlet)	mm	65	80	80	80	125	125	
进水口 (inlet)	mm	65	80	80	80	125	125	
大气连通口 (Continuous atmospheric port)	mm	65	80	80	80	125	125	
排污口 (Drain outlet)	mm	65	80	80	80	125	125	
烟囱直径 (Chimney diameter)	mm	219	273	273	273	350	325	
外型尺寸 (Size)	长 (Length)	mm	1050	1150	1250	1390	1750	2100
	宽 (Width)	mm	1090	1250	1290	1430	1630	1970
	高 (Height)	mm	2010	2150	2330	2460	2680	2490
底座尺寸 (Size of base)	长 (Length)	mm	1050	1150	1250	1390	1750	1970
	宽 (Width)	mm	1050	1150	1250	1390	1750	1910
锅炉运输重量 (Transport weight)	Kg	800	1100	1270	1450	3080	3620	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	39.1	51	67	81	119	159.2
	轻油 (Light oil)	Kg/h	34.5	42.9	56	67	99	129.1
	城市煤气 (C.G)	Nm <sup>3</sup> /h	84.2	118.5	143	166.2	249.9	332.9

说明: 1、天然气热值: 8500Kcal/Nm<sup>3</sup>; 轻油热值: 10300Kcal/Kg; 城市煤气热值: 4000Kcal/Nm<sup>3</sup>。2、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变更恕不另行通知。3、预留、预制及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据, 此数据仅供参考。

# 电热水锅炉

Electric Hot Water Boiler



- 1、分取暖型、温水型（本体镀锌处理）及不锈钢本体型，分别适合采暖和生活热水的应用。
- 2、采用国内外知名品牌元件，噪音小，无污染。
- 3、电热元件采用不锈钢材质，使用寿命长。与炉体连接装拆方便，利于维护和保养。
- 4、电器与电热元件的接线均使用优质高温线，安全可靠。
- 5、采用步进式分时投入法控制电热元件，均匀加热，减少对电网的冲击；加热元件可手动投入或停止，方便用户灵活调整。
- 6、小功率锅炉采用一体式，安装方便；大功率锅炉采用控制柜与本体分离式，确保电器元件能在正常工作环境中运行。
- 7、具有电压超高、超低、漏电、缺断相保护；温度异常保护；过热保护和低水位报警及定时功能。
- 8、应用先进的数字化控制技术，可远程精确监控燃烧过程。控制柜强电部分采用国内外名优电器，质量可靠；控制器采用液晶或触摸屏控制器，自动化程度高，具有操控简便，燃烧、水位、温度自动控制，检漏报警，超压、超温、缺水保护等连锁保障和防冻及定时功能。控制部分中文及图形显示系统工况，在线操作指南、故障自诊断。全自动运行加手动操作可一用一备，实现人机对话。

- 1、Galvanized processing points to keep warm, warm water (ontology) and stainless steel body, respectively suitable for the application of heating and domestic hot water.
- 2、Using domestic and international famous brand components, low noise, no pollution.
- 3、The electric heating element is made of stainless steel material, long service life. Convenient operation connected to the furnace body, to facilitate maintenance.
- 4、Electrical connection with electric heating element has been used high quality high temperature wire, safe and reliable.
- 5、Step by step in time-sharing method is used to control the electric heating element, uniform heating, to reduce the impact on the power grid; Heating element can be manually input or stop, convenient and flexible adjustment by the user.
- 6、Small power boiler adopting one-piece, installation is convenient; High power boiler adopts the control cabinet and ontology and separated to ensure electrical components can run in the normal work environment.
- 7、With high and low voltage, leakage, lack of phase failure protection; Abnormal temperature protection; Overheating protection and low water level alarm and timer function.
- 8、The application of advanced digital control technology, which can remote accurately monitor the combustion process. High-voltage electrical control part adopts famous electrical appliances at home and abroad, quality and reliable; LCD and touch screen controller, controller USES a high degree of automation, with the features of easy manipulation, combustion, water level, temperature automatic control, leak detection alarm, overpressure, water shortage protection interlock protection, overtemperature and antifreeze and timing function. Control part of the Chinese and the graphics display system operating mode, online guide operation and fault self-diagnosis. Automatic operation and manual operation can use a spare, realize the man-machine dialogue.

## 电热水锅炉技术参数

The technical parameters of Electric Hot Water Boiler

项目 (Item)		CLDR						
		0.035	0.06	0.08	0.12	0.175	0.24	0.35
		-85/65-D						
额定发热量 (Rated power)	MW	0.035	0.06	0.08	0.12	0.175	0.24	0.35
	10 <sup>4</sup> Kcal	3	5	7	10	15	20	30
额定工作压力 (Working pressure)	MPa	常压						
额定出水温度 (Supply water temperature)	°C	85						
额定回水温度 (Return water temperature)	°C	65						
设计热效率 (Efficiency)	%	98						
锅炉水容量 (Water capacity)	L	56	110	245	245	305	360	695
出水口 (outlet)	mm	40	50	50	50	65	65	80
回水口 (inlet)	mm	40	50	50	50	65	65	80
大气连通口 (Continuous atmospheric port)	mm	40	50	50	50	65	65	80
排污口 (Drain outlet)	mm	25	25	25	25	32	32	32
加热管功率 (Heating tube power)	KW	18	15	24	24	24	24	24
加热管组数 (Heating tube group number)	组	2	4	4	5	8	10	15
外形尺寸 (Size)	长 (Length)	mm	730	710	900	900	900	1100
	宽 (Width)	mm	660	830	1060	1060	1060	1290
	高 (Height)	mm	690	930	1220	1220	1410	1730
底座尺寸 (Size of base)	长 (Length)	mm	710	805	1040	1040	1040	1240
	宽 (Width)	mm	640	710	900	900	900	1100
运输重量 (Transport weight)	Kg	138	246	322	355	459	515	639

项目 (Item)		CLDR	CWDR						
		0.48	0.6	0.7	1.05	1.4	1.75	2.1	
		-85/65-D							
额定发热量 (Rated evaporation)	MW	0.48	0.6	0.7	1.05	1.4	1.75	2.1	
	10 <sup>4</sup> Kcal	40	50	60	90	120	150	180	
额定工作压力 (Working pressure)	MPa	常压							
额定出水温度 (Supply water temperature)	°C	85							
额定回水温度 (Return water temperature)	°C	65							
设计热效率 (Efficiency)	%	98							
锅炉水容量 (Water capacity)	L	835	1200	1200	1400	1750	2100	3200	
出水口 (Water outlet)	mm	80	80	100	100	100	125	150	
回水口 (Water inlet)	mm	80	80	100	100	100	125	150	
大气连通口 (Continuous atmospheric port)	mm	80	80	100	125	125	125	150	
排污口 (Drain outlet)	mm	32	40	40	50	50	50	50	
加热管功率 (Heating tube power)	KW	24	30	30	30	30	30	30	
加热管组数 (Heating tube group number)	组	20	20	24	36	48	60	70	
外形尺寸 (Size)	长 (Length)	mm	1100	2000	2400	2250	2400	2550	3000
	宽 (Width)	mm	1290	1200	1200	1480	1360	1680	1960
	高 (Height)	mm	2010	1900	2000	1685	2100	1970	2170
底座尺寸 (Size of base)	长 (Length)	mm	1240	1480	1500	1600	1800	1800	2400
	宽 (Width)	mm	1100	800	800	1000	1000	1200	1400
运输重量 (Transport weight)	Kg	687	1573	2200	2350	2430	3500	4500	

说明：1、表中数据及图片仅供参考，产品以实物为准，如因改型而变更恕不另行通知；2、预制、预留及锅炉房设计前请联系确认有关数据。

## 燃油(气)不锈钢饮水锅炉

Vertical Stainless Steel Hot Water Boiler



- ◎ 1、本体全部采用优质耐温不锈钢材料，经久耐用，水质清洁卫生；外包采用优质保温材料加强保温，减少热损失。
- ◎ 2、配置检查口，方便检查；炉体设计优化，水容量大，受热面大，热效率高，升温快，供应开水充足。
- ◎ 3、配置独特智能电脑控制器，双温控制，使出水达到标准并能实现开水的连续供应，省去保温水箱，节约投入，减少锅炉房的占地面积。
- ◎ 4、自动化程度高，补水、燃烧、温控自动操作，状态显示丰富；有过热保护、缺水保护和自检及定时功能。
- ◎ 5、整机一体化，布置紧凑，占地小，安装方便；开水状态显示清晰，外观色泽鲜亮美观。

- ◎ 1、Ontologies are all made of high quality heat-resistant stainless steel material, durable, water quality cleaning and hygiene; Outsourcing is made of high quality thermal insulation material to strengthen heat preservation, reduce heat loss.
- ◎ 2、Configuration check mouth, convenient check; Furnace design optimization, large capacity, water heating, high thermal efficiency, heating up fast, supply hot water.
- ◎ 3、Configuration is unique intelligent computer controller, temperature control, make the water reach the standard and can realize continuous supply of water, save the incubator tank, save investment, reduce boiler room area.
- ◎ 4、A high degree of automation, hydrating, combustion, automatic temperature control operation, rich status display; With overheating protection, water protection and self-inspection and timing functions.
- ◎ 5、The boiler integration, compact layout, covers an area of small, easy installation; Boiled water status display is clear, bright color and beautiful appearance.

## 电不锈钢饮水锅炉

Stainless Steel Electric Hot Water Boiler



- ◎ 1、本体全部采用优质耐温不锈钢材料，经久耐用，水质清洁卫生；外包采用优质保温材料加强保温，减少热损失。
- ◎ 2、采用国内外知名品牌电器元件，噪音小，无污染。
- ◎ 3、电热元件采用不锈钢材质，清洁卫生，与炉体连接拆装方便，利于维护和保养；电器与电热元件的接线均使用优质高温线，安全可靠。
- ◎ 4、配置独特智能电脑控制器，双温控制，使出水达到标准并能实现开水的连续供应，省去保温水箱，节约投入，减少锅炉房的占地面积。
- ◎ 5、控制器显示状态丰富，操作简单方便，运行自动化；具有电压超高、超低、漏电、缺断相保护；温度异常保护；过热保护和低水位报警及定时功能。
- ◎ 6、采用步进式分时投入法控制电热元件，均匀加热，减少对电网的冲击；加热元件可手动投入或停止，方便用户灵活调整。
- ◎ 7、整机一体化，布置紧凑，占地小，安装方便；开水状态显示清晰，外观色泽鲜亮美观。

- ◎ 1、Ontologies are all made of high quality heat-resistant stainless steel material, durable, water quality cleaning and hygiene; Outsourcing is made of high quality thermal insulation material to strengthen heat preservation, reduce heat loss.
- ◎ 2、Using domestic and international famous brand electrical components, low noise, no pollution.
- ◎ 3、The electric heating element is made of stainless steel material, clean sanitation, convenient operation and furnace body connection, to facilitate maintenance and maintenance; Electrical connection with electric heating element has been used high quality high temperature wire, safe and reliable.
- ◎ 4、Configuration is unique intelligent computer controller, temperature control, make the water reach the standard and can realize continuous supply of water, save the incubator tank, save investment, reduce boiler room area.
- ◎ 5、Controller display mode is rich, simple and convenient operation, operation automation; With high and low voltage, leakage, lack of phase failure protection; Abnormal temperature protection; Overheating protection and low water level alarm and timer function.
- ◎ 6、Step by step in time-sharing method is used to control the electric heating element, uniform heating, to reduce the impact on the power grid; Heating element can be manually input or stop, convenient and flexible adjustment by the user.
- ◎ 7、The boiler integration, compact layout, covers an area of small, easy installation; Boiled water status display is clear, bright color and beautiful appearance.

## 燃油(气)不锈钢饮水锅炉技术参数

The technical parameters of Vertical Stainless Steel Hot Water Boiler

项目 (Item)		KY-300	KY-500	KY-700	KY-1000	KY-1500	KY-2000	KY-3000	KY-4000	KY-5000	KY-6000	
开水量 (Boiled water volume)	Kg/h	300	500	700	1000	1500	2000	3000	4000	5000	6000	
工作压力 (Working pressure)	MPa	常压										
设计热效率 (Efficiency)	%	88~90										
水容量 (Water capacity)	L	170	197	263	310	350	483	820	1040	1420	1650	
开水口 (Water outlet)	mm	25	40	40	40	50	50	50	65	65	65	
进水口 (Water inlet)	mm	20	25	25	25	40	40	40	40	50	50	
大气连通口 (Continuous atmospheric port)	mm	40	40	50	50	65	65	80	80	80	80	
排污口 (Drain outlet)	mm	40	40	40	40	40	40	40	40	40	40	
出烟口 (Chimney)	mm	114	133	133	159	159	219	219	273	273	273	
外形尺寸 (Size)	长 (Length)	mm	590	590	690	760	760	850	1050	1140	1240	1390
	宽 (Width)	mm	590	590	690	760	820	850	1050	1140	1240	1420
	高 (Height)	mm	1690	1680	1680	1680	1790	1880	2165	2290	2450	2600
运输重量 (Transport weight)	Kg	160	170	250	270	330	430	690	770	1140	1250	
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	2.42	4.9	6.85	9.8	14.6	19.6	29.4	39.2	49.02	58.8
	轻油 (Light oil)	Kg/h	2.94	4.05	5.66	8.1	12.1	16.2	24.2	32.4	40.45	48.5
	城市煤气 (C.G)	Nm <sup>3</sup> /h	6.24	10.4	14.5	20.8	31	41.6	62.4	83.3	104.2	125

说明: 1、天然气热值: 8500Kcal/Nm<sup>3</sup>; 轻油热值: 10300Kcal/Kg; 城市煤气热值: 4000Kcal/Nm<sup>3</sup>。2、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变更恕不另行通知。3、预留、预制及锅炉房设计前请联系确认有关数据。4、以上热效率为设计理论数据, 此数据仅供参考。

## 电不锈钢饮水锅炉技术参数

The technical parameters of Stainless Steel Electric Hot Water Boiler

项目 (Item)		KD-300	KD-500	KD-700	KD-1000	KD-1500	KD-2000	KD-3000	
开水量 (Boiled water volume)	Kg/h	300	500	700	1000	1500	2000	3000	
工作压力 (Working pressure)	MPa	常压							
额定电压 (Rated voltage)	V	380							
设计热效率 (Efficiency)	%	98							
水容量 (Water capacity)	L	313	380	880	1010	1250	1530	1820	
开水口 (Water outlet)	mm	25	40	40	40	50	50	50	
进水口 (Water inlet)	mm	20	25	25	25	40	40	40	
大气连通口 (Continuous atmospheric port)	mm	40	40	50	50	65	65	80	
排污口 (Drain outlet)	mm	40	40	40	40	40	40	40	
加热管功率 (Heating tube power)	KW	18	18	24	24	24	24	24	
加热管组数 (Heating tube group number)	组	2	3	3	5	8	10	15	
外形尺寸 (Size)	长 (Length)	mm	690	690	960	950	1050	1150	1250
	宽 (Width)	mm	940	940	1250	1220	1350	1450	1550
	高 (Height)	mm	1310	1560	1860	1860	1860	1980	2100
运输重量 (Transport weight)	Kg	280	320	400	510	620	690	1250	

说明: 1、表中数据及图片仅供参考, 产品以实物为准, 如因改型而变更恕不另行通知; 2、预留、预制及锅炉房设计前请联系确认有关数据。

# 蒸发器

Evaporator



- 1、按照《特种设备安全监察条例》中第九十九条对锅炉的定义，本蒸发器容积小于其规定的30L容积的要求，不属于《锅炉压力容器制造监督管理办法》规定的产品安全性能强制监督检验的范畴，可以免去地方监督检验。
- 2、本蒸发器的设计、制造严格执行国家有关规范和标准，炉体采用立式结构，紧凑美观，整机出厂，占地小，便于安装，产气快，蒸汽品质高。
- 3、配置优质稳定的电脑控制器，保护功能齐全，抗干扰能力强，操作简单方便，自动化程度高，各项保护功能齐全，确保运行安全可靠。广泛用于餐饮、食品、服装等行业。

- 1、In accordance with article ninety-nine of the "special equipment safety supervision regulations" in the definition of the boiler, the provisions of this evaporator capacity is less than the 30 l volume requirements, do not belong to the boiler pressure vessel manufacturing supervision and management measures for the regulation of the category of product safety performance of mandatory supervision, inspection and can avoid local supervision and inspection.
- 2、The evaporator design, strictly implement the relevant national norms and standards for manufacturing, furnace adopts vertical structure, compact and beautiful, the whole machine factory, covers an area of small, easy to install, gas is fast, high quality steam.
- 3、Configuration of high quality and stable computer controller, the protect function is all ready, strong anti-interference ability, simple and convenient operation, high degree of automation, the complete protection function, to ensure safe and reliable operation. Widely used in food and beverage, food, clothing and other industries.

## 蒸发器技术参数

The technical parameters of Evaporator

项目 (Item)		LSS		项目 (Item)		LDR			
		-0.03	-0.05			-0.03	-0.05		
		-0.4(0.7)-Y.Q				-0.4(0.7)-Y.Q			
额定蒸发量 (Rated evaporation)	Kg/h	30	50	额定蒸发量 (Rated evaporation)	Kg/h	30	50		
额定工作压力 (Working pressure)	MPa	-0.4(0.7)		额定工作压力 (Working pressure)	MPa	-0.4(0.7)			
燃料耗量 (Fuel consumption)	天然气 (L.N.G)	Nm <sup>3</sup> /h	3.82	4.5	电加热管功率 (Heating tube power)	KW	12	18	
	轻油 (Light oil)	Kg/h	3.15	3.6	电加热管组数 (Heating tube group number)	组	2	2	
设计热效率 (Efficiency)	%	90		设计热效率 (Efficiency)	%	98			
正常水容量 (Water capacity)	L	26	28	正常水容量 (Water capacity)	L	26	28		
蒸汽出口 (Steam outlet)	mm	15	15	蒸汽出口 (Steam outlet)	mm	15	15		
进水口 (Water inlet)	mm	15	15	进水口 (Water inlet)	mm	15	15		
排污口 (Drain outlet)	mm	20	20	排污口 (Drain outlet)	mm	20	20		
安全阀 (Safety valve)	mm	20	20	安全阀 (Safety valve)	mm	20	20		
出烟口 (Chimney)	mm	114	114	动力铜芯电缆 (Power copper core cable)	mm <sup>2</sup>	3×10+2.5	3×16+2.5		
外形尺寸 (Size)	长 (Length)	mm	540	540	外形尺寸 (Size)	长 (Length)	mm	630	820
	宽 (Width)	mm	540	540		宽 (Width)	mm	560	730
	高 (Height)	mm	1500	1600		高 (Height)	mm	1410	1660
运输重量 (Transport weight)	Kg	200	250	运输重量 (Transport weight)	Kg	138	160		

说明：1、表中数据及图片仅供参考，产品以实物为准，如因改型而变更恕不另行通知；2、预制、预留及锅炉房设计前请联系确认有关数据。