EPCB BOILER

Keep Professional, Keep Development, Keep Quality!



QINGDAO EAST POWER INDUSTRY EQUIPMENT CO., LTD.

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Qingdao East Power Industry Equipment Co., Ltd





Company Profile:

Qingdao East Power Industry Equipment Co., Ltd is located in Qingdao China, specializing in the design and production of boilers. Our main products include coal fired boilers, oil gas fired boilers, biomass fired boilers, electric boilers and some boiler accessories. These boilers are environment-friendly and energy-saving. Our products have been approved by the Provincial Environment Department.

We can manufacture and supply boilers as per CE, ASME and EAC standards, also with these certifications.

Our boilers have been used well in all Chinese regions and have been exported to more than 60 countries, such as Australia, Thailand, Vietnam, Pakistan, Bangladesh, Mexico, Philippines, Kazakhstan, Uzbekistan, Russia, Nigeria, Mongolia, Kenya, Africa, Ecuador, Latin America, etc.

Quality Control System:

- · Each worker must have the related Certificates before joining us and starting work.
- · Each production process is marked the Work Number of the Workman and Inspector and the information is input to computers. We can check the responsible persons swiftly.
- · Each welding line is inspected rigorously with radiographic test and X-ray is saved to official files.
- · Each boiler is tested seriously with water pressure and inspected by the Institute of Specific Equipment Inspection and Research of Shandong Province and then get the Qualified Certification of Boilers.







We offer products with high quality and competitive prices and we hope to have good cooperation with you.









Fixed Grate Manual Coal/Biomass Fired Boiler





PRODUCT DESCRIPTION:

- Solid fuel in the high temperature furnace stay a long residence time, after several times wind distribution, fully burning, thermal efficiency is high without black smoke.
- Less ash residue, the environmental indicators such as soot carbon dioxide, sulphur dioxide is better than the national discharge standard, and conform to the current international emission reduction policies.
- Adapt to a variety of solid fuel, coal, wood, charcoal, waste jute, waste fabric and so on.
- Fuel burning continuous, stable working condition, can guarantee the steam output.
- Manual feeding, remove slag, simple operation, without cumbersome procedures, start quickly.

Item\Ty	/pe			Fixed	d Grate N	Manual	Coal/B	iomass Steam/He	ot Water Bo	oiler		
Rated capa	city t/h	0.5	1	2	3	4	6	Rated capac	ity MW	0.35	0.7	1.4
Rated steam pre	ssure MPa	0.7/1.0	0.7/1.0/1.25	1.0/1.25	1.0/1.25	1.25	1.25	Rated steam pre	ssure MPa	0.7	0.7	0.7
Rated steam tem	perature C	170/184/194	170/184/194	170/184/194	184/194	194	194	Supply water tem	perature 'C	95	95	95
Feed water temp	perature C	20	20	20	20	20	20	Return water tem	perature C	70	70	70
Heated area m²	radiation /	4 40/40 4	4.55/20.12	7.3/41.4	10.06/	12.1/	16/	Heated area m²	radiation /	2.3/	4.55/	6.17/
	convection	1.42/12.1	4.55/20.12	7.3/41.4	74.1	76.8	129.6	neated area m	convection	16.2	20.12	39.5
Suitable fue	el type		Coal/Wood/C	harcoal/Jute	/Fabric,e	tc.		Suitable fue	l type	Coal/Wood/	Charcoal/Jut	e/Fabric,etc
Boiler heat effi	iciency %	79.2	80.2	81.1	81.2	81.6	81.7	Boiler heat effi	ciency %	79.6	81	81.6
Fuel consump	tion kg/h	64.53	127.45	252.07	377.64	501.05	760.65	Fuel consumpt	ion kg/h	44.94	88.33	175.37
Effective area	of grate m²	1	1.5	2.72	3	3.98	5.89	Effective area of	f grate m²	0.98	1.5	2.4
Transportation	length	3270	4270	4900	5840	6735	6700	Transportation	length	2970	3782	4900
size of boiler	width	1664	1920	2560	2660	2660	3000	size of boiler	width	1950	1800	2130
mm	heigth	2725	2870	3470	3520	3520	3600	mm	heigth	2660	2870	3222
Weight of largge		7	11/11.6	16	25	27	30	Weight of largge boiler transports		7	11	15.5

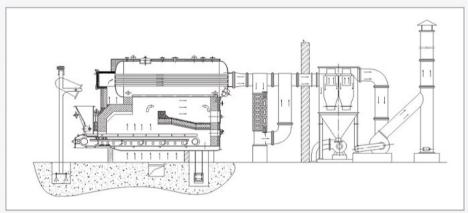
Notes: 1.This form is only for reference, if any changed, please refer to factory's technical documents. 2.The calorific value of fuel in this form is based on the calorific value as follows: biomass-18800KJ/kg.



Single Drum Chain Grate Coal/Biomass Fired Boiler







PRODUCT DESCRIPTION:

- The single drum is designed with thread boiler smoke pipe, arch tube sheet. Layout is compact, small volume.
- Threaded pipe technology can strengthen heat transfer and simplify the flue gas return trip. Boiler is simple in structure, easy maintenance.
- Water pipes and fire tubes balance convection heating surface, high thermal efficiency.
- High standards, high-quality auxiliary equipment, accessories and automated control can ensure the boiler is safe and stable.
- Multiple safety protection, electrical overload protection, over-pressure protection, low water level protection, over-pressure alarm, high water level alarm and so on.

Ite	m/Type		Sir	gle Drum (Chain Grate	Coal/Biom	ass Fired S	team Boile					
Rated	capacity t/h	1	2	4	6	8	10	12	15	20			
Rated stear	m pressure MPa	0.7/1.25	0.7/1.25/1.6	1.25/1.6	1.25/1.6	1.25/1.6	1.25/1.6	1.25/1.6	1.25/1.6	1.25/1.6			
Rated steam	n temperature 'C	170/194	170/194/204	194/204	194/204	194/204	194/204	194/204	194/204	194/204			
Feed water	temperature 'C					20							
Boiler them	nal efficiency %	78.1	80.2	82.3	82.5	82.5	82.9	82.9	83.1	83.1			
Body hea	ating area m ²	22.99	22.99 48.7 96.34 148.15 174.4 226.2 276 374.5 66										
Fuel &	Fuel type		Class II Soft Coal, Biomass, Wood Chips, Wood Pellets, Rice Husk, Palm Kernel Shell, etc.										
consumption	Coal kg/h	91.61	178.43	347.75	520.36	693.81	863.08	1035.70	1291.51	1722.01			
	Biomass kg/h	132.40	257.87	502.57	752.03	1002.71	1247.34	1496.80	1866.50	2488.67			
Size of boiler	Length	4600	5800	6700	7000	7300	7600	7600	8500	9500			
largest parts	Width	1900	2600	2700	3000	3000	3200	3200	3400	3800			
mm	Height	2900	3500	3500	3500	3500	3500	3500	3500	7100			
	t of boiler t parts ton	18	22	30.1	40	21/14	23/17	23/19	21/24	25/24			

Iter	m/Type		Singl	e Drum Chai	n Grate Coal	/Biomass Fir	ed Hot Wate	r Boiler					
Rated c	apacity MW	0.7	1.4	2.8	4.2	5.6	7	10.5	14				
Rated working	ng pressure Mpa	0.7	0.7	0.7	1	1	1	1	1				
Supply wate	r temperature °C	95	95	95	115	115	115	115	115				
Return wate	r temperature ˚C	70	70	70	70	70	70	70	70				
Boiler them	nal efficiency %	77.39	79.8	81.55	82	82.3	82.8	83.1	83.3				
Body hea	ating area m²	25.3	48.3	92.7	136.3	160	259.2	369.04	475.33				
Circulation	water flow m³/h	24	24 48 96 144 192 240 360										
Fuel &	Fuel type		Clas	s, Wood Pe	ellets,								
consumption	Coal kg/h	92.45	179.32	350.95	523.53	695.50	864.12	1291.51	1717.88				
	Biomass kg/h	133.61	259.16	507.19	756.62	1005.14	1248.84	1866.50	2482.70				
Supply h	eat area m²	8000	16000	32000	48000	56000	80000	120000	160000				
Size of boiler	Length	5400	5900	5900	6800	7100	7500	8200	9100				
largest parts	Width	2000	2500	2800	3200	3200	3200	3400	3400				
mm	Height	30000	3300	3500	3400	3500	3500	3200	3500				
-	t of boiler parts ton	18	22	30.1	38	49	28/35	25/24	32/23.6				

Notes: 1.This form is only for reference, if any changed, please refer to factory's technical documents.

2. The calorific value of fuel in this form is based on the calorific value as follows: Class II soft coal-27170KJ/kg; biomass-18800KJ/kg



Double Drums Chain Grate Coal/Biomass Fired Boiler























PRODUCT DESCRIPTION:

- The series boilers belong to water tube boilers, designed for blown on surface, and the steam quality is pretty good.
- Steam boilers are divided into saturated steam boilers and superheated steam boilers, and can meet customers' different steam temperature needs.
- For the application of different fuels, the boiler grate is divided into two series, chain grate and reciprocating grate, which can be applicable to all types of coal and biomass fuel combustion.
- Boiler adopts quick assembly structure. The 4-6t/h boiler is completely assembled in our factory before delivery. The boiler above 6t/h is composed of 2 main components, upper boiler proper and chain grate bases parts, will be installed in user's factory with short installation time.
- Boiler capacity is 4-35Ton/hr (2.8-29MW).

Item	/Туре		Dou	ıble Drums C	hain Grate Co	al/Biomass Fi	ired Steam Bo	iler		
Rated ca	apacity t/h	4	6	8	10	12	15	20	25	
Rated steam	pressure MPa	1.25/1.6/2.5	1.25/1.6/2.5	1.25/1.6/2.5	1.25/1.6/2.5	1.25/1.6/2.5	1.25/1.6/2.5	1.25/1.6/2.5	1.25/1.6/2.5	
Rated steam	temperature °C	194/204/226	194/204/226	194/204/226	194/204/226	194/204/226	194/204/226	194/204/226	194/204/226	
Feed water to	emperature 'C	20	20	60	60	60	104	104	104	
Boiler therma	al efficiency %	81.54	81.6	81.8	82.2	82.5	82.5	82.8	83.7	
Heating area	Boiler body	99.68	155.5	181.63	233.6	298	316.7	456	625.3	
m²	Economizer	69.76	140.6	183.1	209.3	209.3	225	242.4	267.8	
Fuel &	Fuel type	Class II Soft Coal, Biomass, Wood Chips, Wood Pellets, Rice Husk, Palm Kernel Shell, etc.								
consumption	Coal kg/h	350.99	526.10	699.75	870.43	1040.72	25/1.6/2.5 1.25/1.6/2.5 1.25/1.6/2.5 25/1.6/2.5 1.25/1.6/2.5 1.25/1.6/2.5 24/204/226 194/2	2137.08		
	Biomass kg/h	507.26	760.33	1011.29	1257.96	1504.06	1880.08	2497.69	3088.54	
Size of boiler	Length	7500	6800	6900	7900	8100	9300	11500	11500	
largest parts	Width	2800	3200	3100	3400	3100	3300	3300	3300	
mm	Height	3500	3500	3500	3500	3500	3500	3500	3500	
	nt of boiler t parts ton	30	40	55	45/30	50/30	52/31	55/34	56/37	

Item	/Туре		Double	Drums Chain C	Grate Coal/Bioma	ass Fired Hot V	Vater Boiler					
Rated ca	pacity MW	2.8	4.2	5.6	7	8.4	10.5	14				
Rated working	g pressure MPa	0.7	1	1	1	1	1	1.25				
Supply water	temperature °C	95	115	115	115	115	115	130				
Return water	temperature °C	70	70	70	70	70	70	70				
Boiler therma	al efficiency %	81	81.2	82.5	83.1	83.2	83.2	83.5				
Heating area	Boiler body	146.8	155.5	196.7	300	279	322	415.8				
m²	Economizer	1	104.6	157	174.4	210	218	413				
Fuel &	Fuel type	Class II Soft Coal, Biomass, Wood Chips, Wood Pellets, Rice Husk, Palm Kernel Shell, etc.										
consumption	Coal kg/h	353.33	528.69	693.81	861.00	1031.96	1289.95	1713.76				
	Biomass kg/h	510.64	764.07	1002.71	1244.34	1491.41	1864.26	2476.75				
Size of boiler	Length	6100	6300	6900	7900	8100	9300	11500				
largest parts	Width	2500	2700	3100	3100	3100	3300	3300				
mm	Height	3500	3500	3500	3500	3500	3500	3500				
	nt of boiler t parts ton	30	43	54	46/29	48/30	49/31	49/37				

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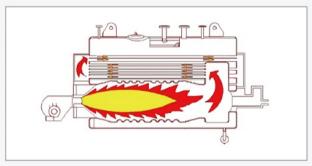
2.The calorific value of fuel in this form is based on the calorific value as follows: Class II soft coal-27170KJ/kg; biomass-18800KJ/kg



Horizontal Fire Tube Automatic Oil/Gas Fired Boiler







PRODUCT DESCRIPTION:

- Horizontal fire tube oil/gas fired steam boiler adopts the three pass technologies, to extend the heat exchange process, sufficient heat transfer, the combustion chamber adopts wet back structure, prolongs service life.
- Boiler adopts automatic control, easy operation, can reduce the amount of operated personnel, reduce the labor intensity.
- Multiple safety interlocking protection, such as electrical overload protection, overpressure protection, low water level protection, overpressure alarm, high water level alarm and so on.
- Boiler leaves our factory with complete equipment, equipped with well-known brand burner (Italy
- Baltur, Riello, Ecoflam, Unigas, Germany Weishaupt, Finland Oilon, etc.), reliable water pump and primary instruments & valves, etc.
- High thermal efficiency, stable output, strong load adaptability, low harmful gas emission and noiseless operation.

Ite	m/Type			1	Horizon	tal Fire	Tube Au	tomatic C	il/Gas Fir	ed Steam	Boiler		
Rated	capacity t/h	0.5	1	1	2	3	4	5	6	8	10	15	20
Rated stear	n pressure MPa						0	.7/1.0/1.2	25/1.6				
Rated steam	n temperature 'C						17	70/184/19	94/204				
Boiler thern	mal efficiency %	91.2	91.8	91.7	92.4	92.55	92.6	92.5	92.9	93.1	93.4	93.5	93.7
Body heating	Boiler body	13.05	21.15	33.14	45.1	67.87	80.37	110.5	140.13	194.27	142.3	218.5	275.3
area m²	Economizer	10.4	18.6	20.4	26.1	30.4	43.41	46.5	57.1	74.4	112.6	155	225.5
Boiler wa	ter volume m³	1.19	2.49	3.96	5.6	6.25	7.54	8.9	8.5	13.9	19.5	24.5	31.5
Flue di	ameter mm	φ250	φ350	φ380	φ420	φ450	φ520	750x410	800x410	940x520	850x500	1200x600	1500x60
Diameter of w	ater inlet pipe DN	25	40	40	40	40	50	50	50	50	50	65	80
Main steam v	alve diameter DN	50	65/25	65/40	80/40	100/40	100/40	125/40	125/40	150/40	150/40	200/50	200/65
Safety valv	ve diameter DN	40	50	2x40	2x40	2x40	50+40	2x50	2x65	2x65	2x80	2x100	2x100
Blowdown p	ipe diameter DN	40	40	40	40	40	40	40	40	40	2x50	2x50	2x50
Fuel	Diesel kg/h	24.61	48.91	73.44	97.18	145.53	193.94	242.68	289.96	385.79	480.69	720.26	958.29
consumption	Natural gas Nm³/h	29.44	58.50	87.84	116.24	174.07	231.97	290.28	346.84	461.45	574.96	861.52	1146.25
Largest	Length	2550	3100	3750	3660	4600	4900	5250	5850	6500	6240	8500	9200
transportation	Width	1450	2200	1950	2700	2200	2300	2350	2400	2600	2850	3500	3950
size mm	Height	1740	2200	2250	2630	2500	2650	2680	2700	2850	3100	4000	4350
Largest transp	gest transportation weight tor		3.6	4.4	5.3	8	8.7	11.2	12.5	17.8	22	32.5	40.5

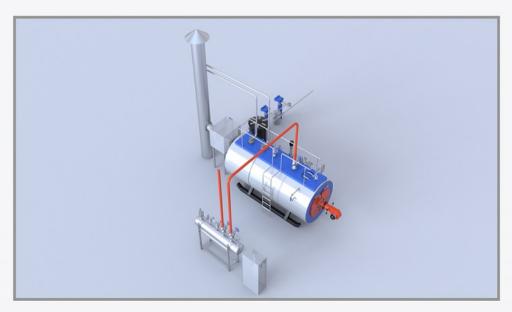
Ite	m/Type		н	orizontal F	ire Tube A	Automatic	Oil/Gas Fir	ed Hot Wa	ater Boiler		
Rated o	apacity MW	0.7	1.05	1.4	2.1	2.8	4.2	5.6	7	10.5	14
Rated working	ng pressure MPa	0.7	1	1.25	1	1.25	1.25	1.25	1.25	1.25	1.25
Supply/return w	vater temperature °C	95/70	115/70	115/70	115/70	115/70	115/70	115/70	115/70	115/70	115/70
Boiler therr	nal efficiency %	92.4	91.78	92.3	93.2	92	92.6	92.7	93.4	93.5	93.5
Body he	ating area m²	23.13	30.99	40.81	64.7	79.4	128.6	176.3	234.2	360.2	409.5
Boiler wa	ter volume m³	2.23	3.9	3.5	5.28	6.05	7.97	10.382	15.47	21.5	28.5
Flue di	ameter mm	320x200	490x260	462x262	580x320	650x320	800x400	800x400	850x500	1100x500	1300x500
Diameter of re	turn water pipe DN	80	100	100	125	150	200	200	200	200	250
Diameter of wa	ater supply pipe DN	80	100	100	125	150	200	200	200	200	250
Safety valv	ve diameter DN	40	40	50	50	50*2	50*2	65*2	80*2	2x100	2x125
Blowdown p	ipe diameter DN	40	40	40	40	40	50	50	50	3x50	3x50
Fuel	Diesel kg/h	48.6	73.4	97.3	144.5	195.2	290.9	387.5	480.7	720.3	960.3
consumption	Natural gas Nm³/h	58.1	87.8	116.4	172.9	233.5	348.0	463.4	575.0	861.5	1148.7
Largest	Length	3150	3400	3600	4460	4600	5600	5600	6800	7200	7900
transportation	Width	1560	1660	1600	1900	2100	2250	2250	2800	3250	3650
size mm	Height	1900	2200	2200	2300	2400	2700	2650	3100	3350	3750
Largest transp	rgest transportation weight tor		4.2	4.8	8.1	9	12	15.2	22	36.6	45.7

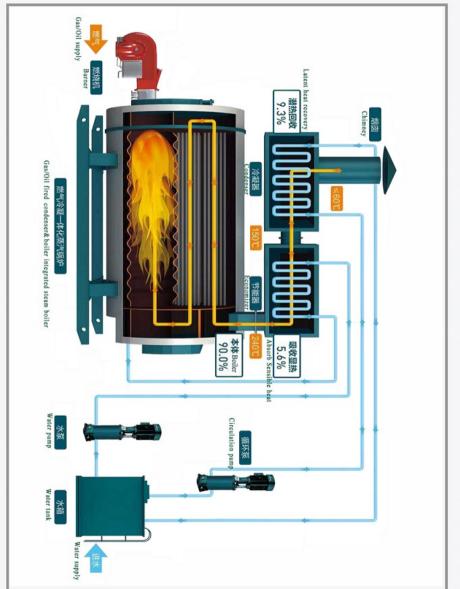
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2. The calorific value of fuel in this form is based on the calorific value as follows: Natural gas-37600KJ/Nm³, diesel-45980KJ/kg.











Automatic Condensing Type Oil/Gas Fired Boiler





PRODUCT DESCRIPTION:

- Full-wet back three-return fire tube structure, flame combustion in the combustion chamber under micro-positive pressure, low combustion heat load, less harmful gas emissions.
- Equipped with condenser in the flue gas outlet to condense steam in flue gas, absorb latent heat of steam condensation, and further improves thermal efficiency.
- The condenser is installed on the top of the boiler body, reducing the area occupied and the condensate water generated on the heat transfer surface can also be discharged naturally.
- With high quality imported burners, the emission of harmful gases (NOx) is greatly reduced, the concentration of harmful gases in flue gas is lower than the national standard, belonging to green environmental protection products.

1	tem/Type			Au	tomatic	Condens	ing Type	Oil/Gas	Fired Boi	iler		
Rate	d capacity t/h		1	2	3	4	6	8	10	12	15	20
Rated ste	am pressure M	Pa					1.0/1.2	25/1.6				
Rated ste	am temperature	Ö.					184/19	4/204				
Boiler the	ermal efficiency	%	96.4	96.5	96.6	96.8	96.6	96.7	96.8	96.8	96.6	96.9
Supply wa	ater temperature	C					2	0				
Calculated I	heat transfer are	ea m²	53	90.8	149	193.4	271.7	354.9	421.9	510	551.7	706
Boiler v	vater volume m	ater volume m³		5.6	6.2	6.7	11	14.7	18	21	28.7	32
Fuel	Diesel I	kg/h	46.6	93.0	139.4	185.5	278.9	371.4	463.8	556.6	697.1	926.6
consumption	Natural gas	s Nm³/h	55.7	111.3	166.8	221.9	333.6	444.3	554.8	665.7	833.9	1108.4
	Туре	9					Fin Tub	е Туре			-	
0	Mode	el	LNQ1	LNQ2	LNQ3	LNQ4	LNQ6	LNQ8	LNQ10	LNQ12	LNQ15	LNQ20
Condenser	Safety valve	Interface		DN40x2		DN40/50			DN40)x2		
	mm	Vent		DN51x2		DN51/65			DN51	1x2		
Largest	Landle som		3340	4220	4590	4960	6562	6500	6900	7800	8000	8460
transportation	Width	nmm	1926	2215	2280	2460	2711	2930	2930	2900	3300	3460
size	Heigh	t mm	1935	2540	2630	2630	3034	3200	3360	3400	83800	3750

Horizontal Water Tube Automatic Oil/Gas Fired Boiler





PRODUCT DESCRIPTION:

- Double drums D type, water tube and full membrane wall compact structure, easy to install and less investment.
- Fully sealing structure, no air leakage, better combustion, large output, less weight.
- Big furnace hearth, enough heating surface, fuel combustion completely, high heat efficiency.
- Big steam and water space, strong adaptability to load variability.
- PLC fully automatic control and multiple interlock protection, equipped with imported burner & reliable auxiliaries, ensure the boiler operate safety and performance.

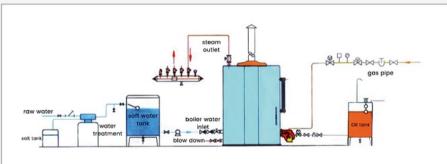
Item\Model	H	Iorizontal Wate	r Tube Autom	atic Oil/Gas Fi	red Steam Boile	er					
Rated steam capacity (kg/h)	2000	4000	6000	10000	20000	35000					
Rated steam pressure MPa			1.25/	1.6/2.5							
Rated steam temperature C	194/203/225/400										
Design efficiency %	89	90.35	89.67	90.24	89.17	90.3					
Heated area m²	68.8	125.3	165.1	210	435.2	906					
Economizer heating surface m²	14.84	37	49.8	144	236	413					
Available fuel	diesel / heavy oil / natural gas / LPG										

Notes: This form is only for reference, if any changed, please refer to factory's technical documents.

Vertical Fire Tube Oil/Gas Fired Boiler







PRODUCT DESCRIPTION:

- Boiler with automatic ignition, process control, water level control, temperature control, over pressure protection and other functions, is safe and reliable.
- An openable ash clean door is set at the bottom of the boiler. The top cover of the boiler can be opened for easy cleaning ash and prolonging the endurance of the boiler.
- Flow interrupters are set in the fire tube to slow down the rate of the mist flow and increase the heat efficiency.
- Boiler with output less than 300 kg/h is two-pass structure and boiler with output more than 500 kg/h is three-pass structure. Long travel heat exchange with good heat transfer effect.
- Big water capacity, large steam storage space, stable output, strong load adaptability.

Ite	m\model			Vertical Fire	Tube Oil/Gas	Fired Steam	Boiler		
Rated ste	am capacity t/h	0.1	0.2	0.3	0.5	0.8	1.0	1.5	2.0
Rated worki	ing pressure MPa	0.4/0.7	0.4/0.7	0.4/0.7	0.4/0.7/1.0	0.7/1.0	0.7/1.0	1.0	1.0/1.25
Saturated ste	am temperature °C	152/170	152/170	152/170	152/170	170/184	170/184	184	184/194
Design	efficiency %				≥≤	92			
Heat	ed area m²	2.85/3.53	5.2/5.67	8.8	11.34	18.4	23.1	26.05	29.38
Boiler wa	ter capacity m ³	0.45	0.454	0.931	1.086	1.37	2.76	2.27	2.27
Flue d	iameter mm	Ф170	Ф160	Ф250	Ф250	Ф320	Ф350	Ф350	Ф400
Diameter o	f feed water pipe	DN25	DN25	DN25	DN25	DN40	DN40	DN40	DN40
Main stear	m tube diameter	DN25	DN40	DN40	DN50	DN65	DN65	DN65	DN80
Safety v	alve diameter	DN40	DN40	DN40	DN40	2xDN40	2xDN40	2xDN40	2xDN40
Blowdown	n tube diameter	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40
Fuel	Diesel kg/h	4.9	9.8	14.6	24.4	39.0	48.8	73.2	97.6
	Natural gas Nm³/h	5.8	11.7	17.5	29.2	46.7	58.4	87.6	116.7
consumption	LPG Nm³/h	2.1	4.3	6.4	10.7	17.2	21.5	32.2	42.9
Deilereine	Length	1000	1000	1200	1300	1550	1750	1800	2100
Boiler size	Width	950	1000	1150	1200	1520	1700	1800	1950
mm	Height	1900	1960	2200	2600	2650	3050	3100	3200
Transporta	Transportation weight (kg)		650/735	990/1100	1500/1800	2400	2600/2850	4100	5400/5600

Iter	n\Model			V	ertical Fi	e Tube O	il/Gas Fir	ed Hot W	ater Boile	er		
Rated he	at capacity kw	60	80	120	180	230	350	470	580	700	1050	1400
Rated hea	t power Kcal/h	5x10 ⁴	7x10 ⁴	10x10 ⁴	15x10 ⁴	20x104	30x10 ⁴	40x10 ⁴	50X10 ⁴	60x10 ⁴	90x104	120x104
Rated worki	ng pressure MPa						0					
Saturated ste	am temperature °C						85/60)				
Design he	at efficiency %						≧92					
Heati	ng area m²	1.85	2.3	3.25	6.45	6.9	10.8	14.5	15.2	20.8	27	48.44
Boiler wa	ter capacity m ³	0.126	0.17	0.222	0.316	0.371	0.783	0.93	1.751	1.907	2.31	2.8
Flue di	ameter mm	Ф108	Ф160	Ф160	Ф250	Ф250	Ф250	Ф250	Ф280	Ф360	560*210	600*220
Diameter of fe	eed water pipe DN	40	50	50	65	65	65	65	80	100	65	65
Blowdown to	ube diameter DN	50	40	50	50	50	50	50	50	50	40	40
First	Diesel kg/h	4.3	5.7	8.6	12.8	16.4	24.9	33.5	41.3	49.9	74.8	99.8
Fuel	Natural gas Nm³/h	5.1	6.8	10.2	15.3	19.6	29.8	40.1	49.4	59.7	89.5	119.3
consumption	LPG Nm³/h	1.9	2.5	3.8	5.6	7.2	11.0	14.7	18.2	21.9	32.9	43.9
D-ili	Length	700	800	800	1100	1100	1300	1200	1450	1400	1600	1720
Boiler size	Width	800	900	900	1000	1000	1400	1150	1400	1400	1600	1720
mm	Height	1350	1600	1700	1800	1980	2140	2280	2270	2600	2700	3060
Transport	ation weight kg	220	260	320	480	500	800	910	1400	1700	2700	3500

Notes: 1.This form is only for reference, if any changed, please refer to factory's technical documents.

2.The calorific value of fuel in this form is based on the calorific value as follows: Natural gas-37600KJ/Nm³, diesel-45980KJ/kg, LPG-98500KJ/Nm³.

Oil/Gas Fired Thermal Oil Boiler

PRODUCT DESCRIPTION:

- Boiler heating surface adopts compact circular coils, heating surface layout is adequate, effectively reducing the heat load on the surface of the tube, is safer to use heat conducting oil.
- The fuel is burned in the combustion chamber composed of inner coils and absorbed most of the heat by the radiation heating surface, then the high temperature flue gas enters the convective heating surface and carries on heat transfer.
- Boiler has good sealing, large expansion space, three-pass flue gas, equipped with air preheater, thermal efficiency can reach 92%.
- A variety of operation safety protection, so that the boiler operation is safer and simpler, high temperature control accuracy (±1 °C), good combustion effect.



	Item/	Гуре							Oil/	Gas Fi	red The	ermal (Oil Boil	er					
Rated th	nermal	kw	350	600	900	1200	1500	1800	2300	2900	3500	4700	5900	7000	8200	9400	10500	12000	14000
Boiler thermal e Design press Max. working ten Medium circulatio Medium voli Main pipe dia Installation ca Fuel ty Fuel Dies Natural Vertice	×10⁴(Kcal/h)	30	50	75	100	130	150	250	250	300	400	500	600	700	800	900	1000	1200	
Boiler t	hermal	efficiency %	92	92	92	92	92	93	93	93	93	93	93	93	93	93	94	94	94
Desig	n pres	ssure MPa	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Max. wo	rking te	emperature 'C	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320
Medium	circula	tion flow m³/h	40	58	100	100	100	160	160	200	200	260	300	340	400	520	600	600	680
Medium volume m ³			0.4	0.6	0.6	0.8	1.2	2.1	2.6	3.5	7.8	8.4	8.8	10.5	11.2	11.5	13	15	18
Main pipe diameter DN			100	100	125	125	125	150	150	200	200	200	250	250	250	300	300	300	350
Install	ation o	apacity kw	14.5	18	31	37.5	49.5	57.5	61.5	75	75	98.5	121.5	148.5	155	195	235	235	295
	Fuel	type					iesel,	Heavy	oil, N	atural	gas, L	PG, C	oke o	ven ga	ıs				
	Die	esel kg/h	24.4	41.8	62.7	83.7	104.6	124.1	158.6	200.0	241.4	324.1	406.9	482.8	565.5	648.3	716.4	818.8	955.2
	Natura	al gas Nm³/h	29.2	50.0	75.0	100.1	125.1	148.5	189.7	239.2	288.7	387.7	486.7	577.4	676.4	775.4	856.9	979.4	1142.6
	Verti	cal type m	1.3×	2×	2.1×	2.2×	2.2×	2.4×	2.7×	2.8×	3.2×	3.2×	3.3×	3.5×	3.62×	3.7×	3.65×	3.65×	3.98×
Boiler	Boiler (Dia	meter×H)	2.5	2.3	3.5	3.5	4	4.4	5.1	6.5	6.7	7"	7.5	8.2	9.2	9.6	11	11	11.8
size	Horizo	ontal type m	1.2×	1.7×	1.82×	1.92×	1.95×	2.4×	2.52×	2.8×	2.92×	3.23×	3.26×	3.26×	3.62×	3.6×	3.65×	3.65×	3.98×
	(Dia	meter×L)	2.4	3	3.5	4	4.3	4.3	5.3	6.3	6	6.7"	7.45	7.9	9	9.48	10.4	10.6	11.5

Coal/Biomass Fired Thermal Oil Boiler



PRODUCT DESCRIPTION:

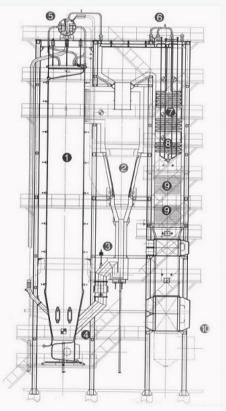
- Closed-circuit circulation, liquid phase heat transfer, heat loss is small, energy saving effect is obvious, and operation cost is low.
- Adopts perfect running control and safety monitoring device with safety, reliability and easy operation.
- Automatic temperature control function can achieve stable heating and precise temperature regulation, and meet different requirements of users.
- Fast temperature rise, high thermal efficiency, with overload capacity at a certain degree to ensure output of boiler.
- Compact structure, convenient transportation, short installation period and fast commissioning effect.

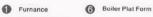
Item/	Туре	Coal/Biomass Fired Thermal Oil Boiler															
Rated thermal	kw	700	1000	1200	1400	1900	2300	2900	3500	4100	4700	5900	7000	8200	9400	12000	14000
power	×104(Kcal/h)	60	80	100	120	160	200	250	300	350	400	500	600	700	800	1000	1200
Boiler thermal efficiency %		76	76	76	78	82	83	83	83	83	83	84	84	84	84	84	85
Design pressure MPa		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Max. working temperature 'C		320	320	320	320	320	320	320	1.1	320	320	320	320	320	320	320	320
Medium circulation flow m ³ /h		80	100	100	100	160	160	200	200	200	260	300	340	400	520	500	620
Medium volume m ³		0.61	0.78	0.97	1.12	1.7	2.6	3	3.2	3.5	4.1	4.6	6.2	8.9	12.6	13.6	14.8
Main pipe diameter DN		100	125	125	125	150	150	200	200	200	200	250	250	250	300	300	350
Installation	capacity kw	28	40	48	55	75	77	100	100	120	140	175	215	215	270	315	380
Fuel	type	Class II/III Soft Coal, Biomass, Wood Chips, Wood Pellets, Rice Husk, etc															
Fuel Coal kg/h		94.1	134.5	161.4	183.5	236.8	283.2	357.1	431.0	504.9	578.8	717.9	851.8	997.8	1143.8	1460.2	1683.5
consumption	Biomass kg/h	136.1	194.4	233.2	265.1	342.3	409.3	516.1	622.9	729.7	836.5	1037.6	1231.0	1442.0	1653.1	2110.3	2433.0
Boiler weight ton		1	1	1	1	25	32	33	39	41	67	70	80	98	108	115	130
Dellander	Length	4385	4685	4685	4685	6000	6400	5700	7000	7600	8900	8900	10000	11000	11220	12610	11350
Boiler size	Width	2150	2500	2500	2500	2200	2400	2400	2850	2900	3290	3290	3310	3400	3560	3560	3950
mm	Height	4650	4900	5210	5710	4300	4800	5070	5200	5400	5750	6000	5850	5850	5850	5850	9000

Notes: 1.This form is only for reference, if any changed, please refer to factory's technical documents.

2.The calorific value of fuel in this form is based on the calorific value as follows: Class II soft coal-27170KJ/kg; biomass-18800KJ/kg.

Circulating Fluidized Bed (CFB) Power Plant Boiler







U Loop Seal 8 Low-temperature Superheater

A Lighting Burner

(i) Air Preheater O Drum





PRODUCT DESCRIPTION:

- Circulating fluidized bed is low-temperature fluidization combustion, therefore, the nitrogen oxides emissions of this boiler is much lower than that of ordinary coal fired boiler, and this kind of boiler could directly desulfurized during combustion process. Circulating fluidized bed boiler with high desulfurization rate is economical.
- Circulating fluidized bed boiler could adopt various coal types and has high combustion
- The ash of circulating fluidized bed boiler has high activity, thus it is easy to realize comprehensive utilization without secondary pollution.
- Circulating fluidized bed boiler could adjust its load in a wide range. Lowest load can be reduced 30% of

	Item\Type	Circulating Fluidized Bed (CFB) Power Plant Boiler									
(1)	Rated capacity t/h	35	75	130	220						
Rated working pressure MPa		3.82/5.3	3.82/5.3	3.82/5.3	9.81						
Rated	d steam temperature °C	450/500	450/500	450/500	540						
Rated fe	eed water temperature C	150	150	150	215						
Radiation heating surface		188	380.3	777.39	858						
Boiler	Mixes-heating surface	-	-	-	242						
heating	Superheater	345.5	633	1089.5	2840						
area m²	Economizer	663	1448	2721.98	4303						
Air preheater		746	1743	2514.5	8746						
Fl	uidized bed area m ²	4.43	7.7	15.2	24.556						
Design coal type		Soft Coal, Lean Coal, Anthracite									
Design thermal efficiency %		88.3	90	90	89.2						
Grain size of coal mm		≤10	≤10	≤8	0~10						
Grain	size of desulfurizer mm	≤2	≤2	≤1.5	0~1.5						
Desu	Ilfurization efficiency %	≥80	≥80	≥90	≥90						
	Ca/S Ratio	2.5	2.5	2.5	2.5						
	Hot air temperature nary/secondary air) Č	130/120	145/135	207/201	231/235						
Smoke	extraction temperature 'C	150	150	~140	135						
Transporta	ation weight of Max. parts Kg	10488	15538	18485	61718						
	utside dimension of r-installed (LxWxH) M	2.7X9.2X14.9	33.85X12X16.25	43.2X11.85X20.93	24.7X23X48.9						

Notes: This form is only for reference, if any changed, please refer to factory's technical documents.

Skid-mounted (Modular) Type Oil/Gas Thermal Oil Boiler





PRODUCT DESCRIPTION:

The boiler is fully assembled. The boiler body, high/low level tanks, pumps, chimney, other accessories and parts are installed on a frame as a whole. The structure is more compact, less land occupation and convenient for transportation. It can be transported to the user's factory as a whole. Users don't need to install on site, as long as the boiler as a whole is located on the foundation.

Item\Mo	odel		Skid-mounte	ed (Modular)	Type Oil/Gas	Thermal Oil	Boiler					
Rated thermal	KW	350	500	700	930	1200	1400	2000				
power	x10 ⁴ Kcal/h	30	40	60	80	100	120	160				
Boiler thermal	efficiency %	≥92										
Design pressure MPa		1.1										
Max.temperature of medium °C		300										
Medium circulation flow m³/h		30	30	60	80	100	100	160				
Medium volume m ³		0.25	0.4	0.51	0.68	0.74	1	1.6				
Installation capacity KW		9	9	16.5	23.5	23.5	38.5	46.5				
Fuel & consumption	Diesel kg/h	27.11	38.73	54.22	72.04	92.95	108.44	154.92				
	Natural gas Nm³/h	32.43	42.33	64.86	86.17	111.18	129.71	185.31				
Deller hade	Length	2526	2935	3665	3950	4325	4750	5000				
Boiler body size mm	Width	1510	1510	1910	1910	2135	2135	2150				
	Height	1656	1656	2080	2080	2250	2250	2560				
Boiler body	weight kg	1600	1800	3160	3490	4630	5000	7535				
	Length	50	000	6800 2100		8200		9500				
Overall dimension of modular type mm	Width	2	100			21	00	2400				
	Height	55	500	5500		5700		6000				
Overallweight of	modular type kg	40	000	50	00	70	12000					

Automatic Electric Heating Hot Water Boiler

PRODUCT DESCRIPTION:

- Adopting advanced & high quality electric heating tube, its surface load is low, the thermal efficiency is high, and its service life is longer. The electric heating tube groups can be manually started or stopped, so that users can adjust the power of the boiler flexibly.
- Adopting microcomputer controller with LCD display screen, the boiler running state can be clearly visible. All operations are done easily through buttons.
- The boiler has advanced circuit design, the routing is tidy and reasonable, easy operation and maintenance. All electrical components are from well-known brand, such as SIEMENS, Schneider, Honeywell, etc. Users can designate the brand.



Using electricity as the fuel, environmental protection, energy-saving, pollution-free & wide applicability.

Iten	Item/Type		Automatic Electric Heating Hot Water Boiler												
Rated thermal	KW	60	90	120	180	240	360	480	600	720	960	1080	1440	2160	
power	x10 ⁴ Kcal/h	5	7	10	15	20	30	40	50	60	80	90	120	180	
Rated working	pressure MPa								0						
Power consu	Power consumption KW*n		15*6	24*5	24*8	24*10	24*15	24*20	24*25	24*30	24*40	24*45	24*60	24*90	
Supply water	Supply water temperature C		85												
Return water temperature 'C		60													
Thermal efficiency %		98													
Supply heat area m ²		500	700	1000	1500	2000	3000	4000	5000	6000	8000	9000	12000	18000	
Boiler water	capacity m ³	0.135	0.163	0.299	0.345	0.426	0.56	0.71	1.225	1.23	1.98	2.35	2.85	5.82	
Supply water p	ipe diameter DN	G2°	50	G2"	G2"	G2"	65	65	80	100	100	100	150	150	
Return water p	pe diameter DN	G2"	50	G2"	G2"	G2"	65	65	80	100	100	100	150	150	
Blowdown pip	e diameter DN	G2"	40	G2"	G2"	G2°	65	65	80	65	80	100	125	125	
Size of boiler	Length	950	950	1130	1300	1300	2000	2160	2100	2200	2400	2600	2700	3200	
largest parts mm	Width	730	730	930	900	900	1050	1000	1200	1200	1750	1460	1460	2400	
	Height	1100	1100	1080	1300	1400	1350	1400	1600	1700	2050	1850	1900	2700	
Weight of	f boiler kg	200	210	280	400	550	650	700	900	1500	1580	1650	1900	3500	

Notes: This form is only for reference, if any changed, please refer to factory's technical documents.





Automatic Electric Steam Boiler

PRODUCT DESCRIPTION:

- All components marked with UL,CAS,CE safety certification identifications; fully dip electric heating components are fastened on the flange, which make it is easy to replace.
- The heating component is made of erosion resistance stainless steel, heating tube and INCOLOY800 alloy steel, it possesses the property of long continuous operating endurance, erosion resistance, relief dirty and low surface load;. The circuit is design withy fuse to make sure the oblique electric wave is under control. So the circuit is safe.
- Main machine and control system are separated for the high power boiler to avoide the component from interfering and heat producing components from aging.
- Dynamical digital control is applied to the control system. Is has the functions of PID adjustment, pump interlock; heat producing work alternately, real time parameter display.



Item\Type		Automatic Electric Steam Boiler											
Rated heat of	36	75	144	144	216	360	720	1080	1440				
Rated steam capacity t/h		0.05	0.1	0.2	0.2	0.3	0.5	1	1.5	2			
Rated working pressure MPa		0.4	0.4/0.7	0.4	0.7	0.4/0.7	0.7	0.7/1.0	1	1			
Power x class number Kw x n		12X3	15X5	24X6	24X6	24X9	24X15	24X30	33X32	24X60			
Saturated steam temperature °C		154	154/170	154	170	154/170	170	184	184	184			
Designed thermal efficiency (%)		≥98											
Rated operational voltage		~ 380 V											
Mode of connection		three-phase three-wire system											
Steam caliber DN		20	25	40	40	40	50	65	65	80			
Inlet diam	eter DN	20	25	25	25	25	25	40	40	40			
Safe vavle di	iameter DN	25	40	40	40	40	40	2X40	2X40	4X40			
Blowdown valve	e diameter DN	25	40	40	40	40	40	40	40	40			
Boiler weight Kg		160	220	420	486	500/ 550	1980	2245 /2300	2600	4000			
	Length mm	700	890	1180	1120	1220	2450	2450	2800	2500			
Outlook size	Width mm	470	700	960	970	980	1700	1800	2000	2000			
	Height mm	1250	1310	1470	1520	1520	1700	2000	2050	2300			

Successful Overseas Cases



6Ton/h Gas Fired Boiler in Uzbekistan





10Ton/h Wood Chips Fired Boiler in



4Ton/h Oil&Gas Dual Fuel Boiler in



20Ton/h Gas Fired Boiler in Kuwait



3Ton/h Wood Fired Boiler in Angola



2Ton/h Heavy Oil Fired Boiler in Bangladesh



1Ton/h Diesel Fired Boiler in Philippines



2Ton/h Biomass Fired boiler in Ghana



75Ton/h Circulating Fluidized Bed Boiler



6Ton/h Wood Fired Boiler in Thailand



2Ton/h Gas Fired Boiler in Spain



2Ton/h Heavy Oil Fired Boiler in Kenya



4Ton/h Wood Fired boiler in Mongolia



500kg/h Diesel Fired boiler in Indonesia



2Ton/h Diesel Fired boiler in Nigeria



500kg/h Wood Fired Boiler in Madagascar 6Ton/h Coal Fired Boiler in Sri Lanka





2.5Ton/h Oat Hulls Fired Boiler in Serbia



0.7MW Gas Fired Hot Water Boiler in