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BIDRAGON



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**GRADE A BOILER MANUFACTURER**  
**THE LEADING AUTHORITY OF INDUSTRIAL BOILER IN CHINA.**



BIDRAGON

## WHY CHOOSE BIDRAGON

## ABOUT BIDRAGON

BIDRAGON GROUP IS ONE OF THE LEADING BOILER SUPPLIERS IN CHINA. WE HAVE BEEN MANUFACTURING AND EXPORTING STEAM BOILER, THERMAL OIL BOILER, AND HOT WATER BOILER

FOR MORE THAN 20 YEARS, OUR BOILERS HAVE BEEN DELIVERED TO MORE THAN 60 COUNTRIES ALL OVER THE WORLD. OUR BOILERS ARE HIGHLY PRAISED BY ALL CUSTOMERS FOR STRONG QUALITY AND GOLDEN SERVICE. HONESTY IS OUR COMPANY FAITH, QUALITY IS OUR SOUL, AND CUSTOMER'S SATISFACTION IS THE BEST PRAISE FOR US. WELCOME TO VISIT OUR FACTORY!



**PATENTED TECHNOLOGY:** OUR FACTORY IS AUTHORIZED TO PRODUCE GRADE A PRESSURE VESSELS BY GOVERNMENT. WE'VE GOT MANY TECHNICAL PATENTS OF BOILERS. WITH PROFESSIONAL DESIGNING ENGINEERS AN EXPERIENCED OPERATION STAFF, OUR BOILERS ARE WITH PERFECT QUALITY AND PERFORMANCE. TAKING OUR BOILERS IS NO DOUBT A WISE CHOICE.



**EXPERIENCED OVERSEA SALES TEAM:** ALL OUR OVERSEA SALES ARE WITH OVER 5 YEARS EXPERIENCES OF EXPORTING OPERATION. WITH EXPERIENCED TECHNICAL KNOWLEDGE AND TRADING KNOWLEDGE, OUR SALES CAN GIVE CUSTOMER THE BEST SUGGESTION AT THE FIRST TIME, WHICH CAN HELP CUSTOMER SAVING A LOT OF TIME AND MONEY.



**LOCALIZED SERVICE OFFICE IN BANGLADESH:** PROVIDING PROMPT RESPONSE TO ALL CUSTOMER'S INQUIRY AND QUESTIONS. SOLVING CUSTOMER'S AFTER SALE PROBLEMS MORE EFFICIENTLY. WE ARE CONSULTANTS AND ASSISTANTS FOR BOILERS AT YOUR SIDE, WHOM YOU CAN EASILY GET IN CONTACT WITH. YOU CAN RELY ON US.

# Steam Boiler

WNS Oil Gas Fired Steam Boiler

WNS Oil Gas Fired Condensing Steam Boiler

SZS Saturated Steam Boiler

SZS Fully Automatic Superheated Steam Boiler

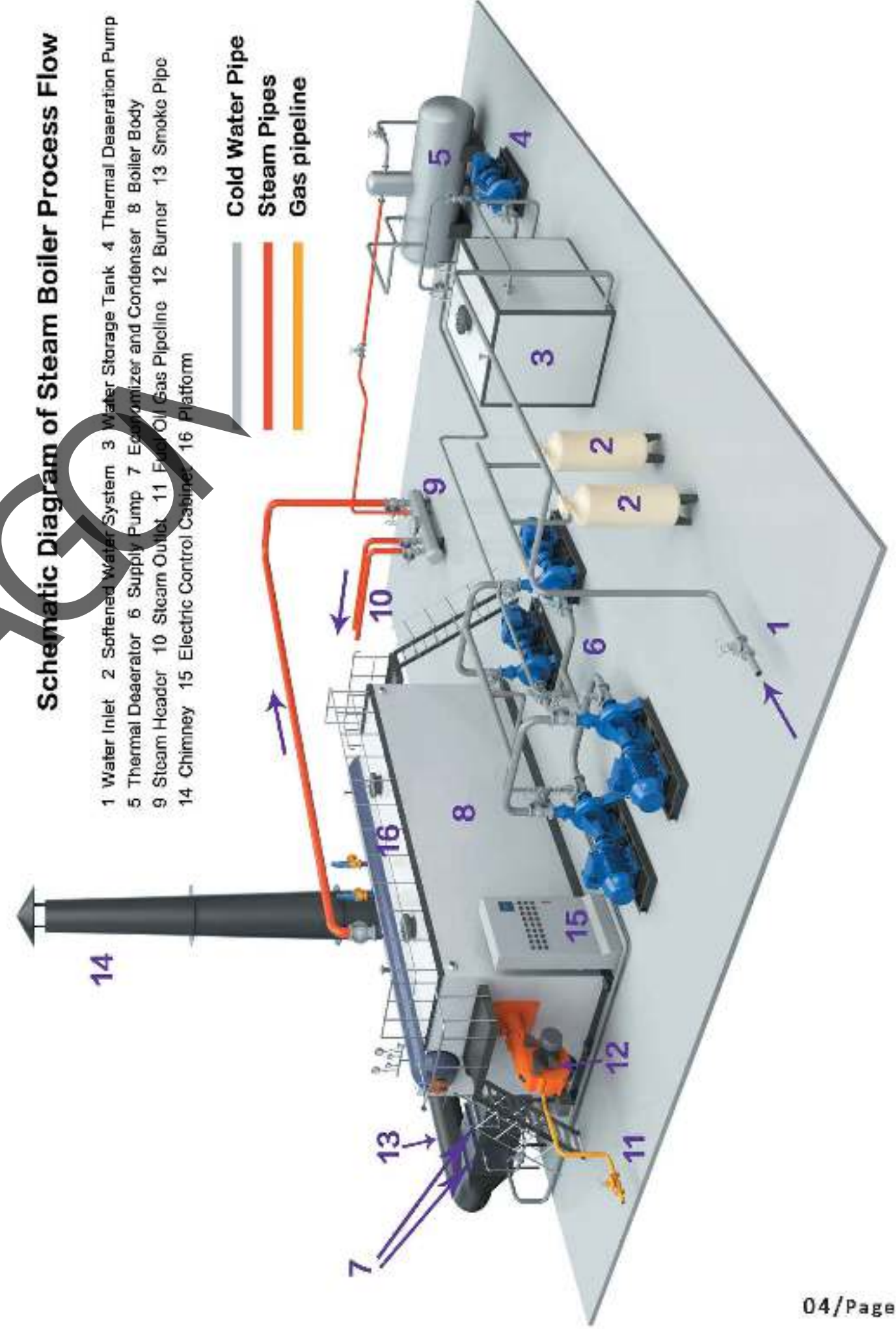
WDR Electric Heating Steam Boiler

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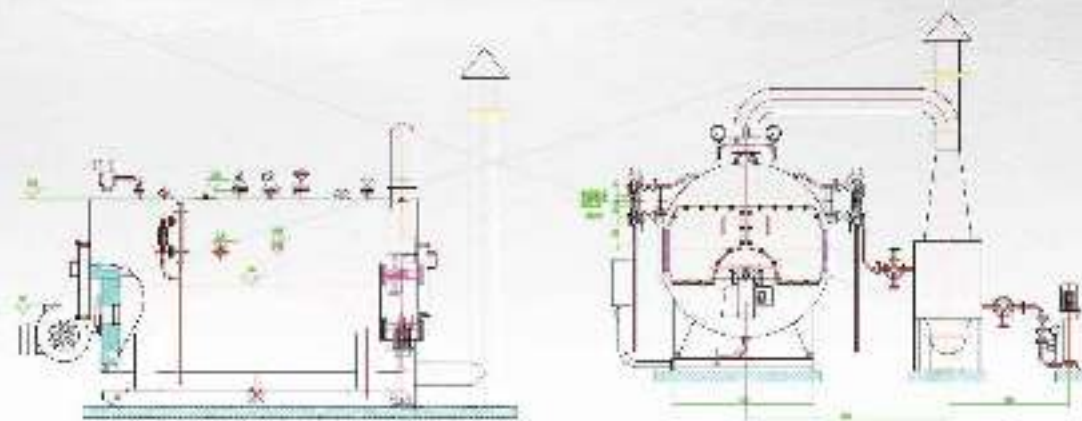
### Schematic Diagram of Steam Boiler Process Flow

- 1 Water Inlet
- 2 Softened Water System
- 3 Water Storage Tank
- 4 Thermal Deaeration Pump
- 5 Thermal Deaerator
- 6 Supply Pump
- 7 Economizer and Condenser
- 8 Boiler Body
- 9 Steam Header
- 10 Steam Outlet
- 11 Fuel Oil Gas Pipeline
- 12 Burner
- 13 Smoke Pipe
- 14 Chimney
- 15 Electric Control Cabinet
- 16 Platform

Cold Water Pipe  
Steam Pipes  
Gas pipeline



# WNS OIL GAS FIRED STEAM BOILER



**FUEL:** OIL/GAS FIRED

**RATED EVAPORATION:** 1-20T/H

**RATED STEAM PRESSURE:** 1.25/1.6 MPA

**RATED STEAM TEMPERATURE:** 194/204 °C

**DESIGNED HEAT EFFICIENCY:** 92.2%-92.8%

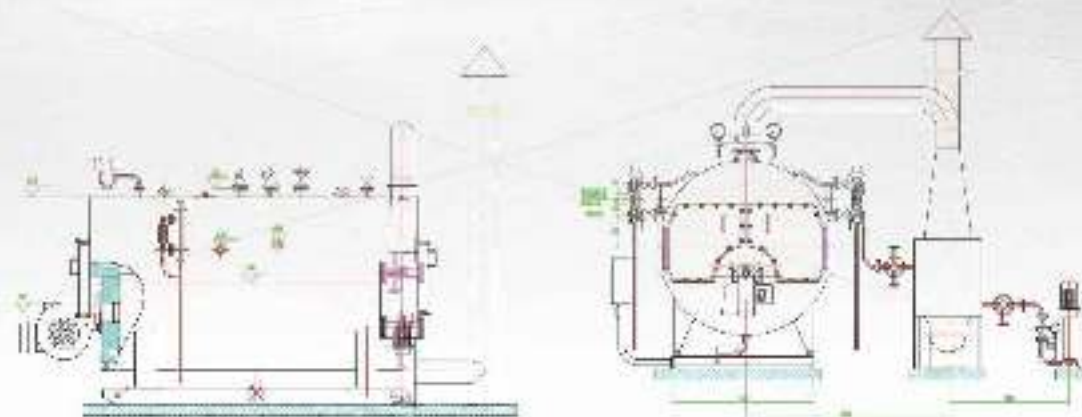
## TECHNICAL PARAMETER

Model		WNS1	WNS1.5	WNS2	WNS3	WNS4	WNS6	WNS8	WNS10	WNS12	WNS15	WNS20	
Rated Evaporation	t/h	1	1.5	2	3	4	6	8	10	12	15	20	
Rated Steam Pressure	Mpa	1.25(1.6)											
Rated Steam Temperature	°C	194(204)											
Rated Inlet Water Temp.	°C	20						20(104)					
Heating Area Of Boiler Body	m <sup>2</sup>	25.5	39.1	51.3	82.3	105	160.7	205.9	246.1	287.2	384.8	492.3	
Energy Saver Heating Area	m <sup>2</sup>	6	8.9	10.8	17.1	20.2	26.4	41.7	40.3	46.4	49.8	66.1	
Designed Heat Efficiency	%	92.2	92.5	93.2	92.8	92.4	92.5	92.7	92.2	92.8	92.8	92.7	
Designed Ambient Temperature	°C	20											
Weight	T	6.3	8.1	9.5	12.2	13.5	18.9	23.5	25.6	26.8	35	42.5	
Boiler Operating Water Volume	T	2.8	3.7	4.7	6.5	8.1	11.5	15.3	18.9	20.7	28.1	37.8	
Boiler Full Water Volume	T	3.4	4.5	5.9	7.9	9.6	12.7	18	22.3	24	31.6	33.9	
Boiler Water Supply Method		Positional Water Supply						Proportional Water Supply					
Burning Method		Micro Positive Pressure Chamber Combustion											
Natural Gas	Nm <sup>3</sup> /h	80.1	118.7	160.1	236	314.8	479.8	631.7	709.3	944.5	1173.2	1545.3	
Diesel Oil	Kg/h	68.2	101.9	136.2	200.7	271.8	408.8	546.7	679.3	803.7	1000	1323.9	
							-407.8	-553.3	-691.1	-825.3	-1016.6	-1342	
							-347.3	-476.4	-599	-711.9	-895.3	-1161	
Transportation Size	L	3900	4800	4300	4680	5250	5100	6200	6853	6950	7520	8030	
	W	1900	2090	2100	2350	2550	2710	2920	3210	3310	3620	3780	
	H	2110	2240	2400	2502	2750	2980	3280	3500	3630	3820	4100	
Installation Size	L	4630	4750	5100	5680	6350	7450	7700	8230	8355	9580	10560	
	W	2800	2990	3000	3250	3450	3610	3820	4110	4210	4520	5000	
	H	3630	3760	3900	4030	4600	4900	5200	5550	5850	5900	6000	
Water Inlet	DN	mm	32	32	40	40	40	50	50	50	65	65	
Main Steam Outlet	DN	mm	50	65	80	80	100	125	150	150	200	200	
Secondary Steam Outlet	DN	mm	32	32	40	40	40	50	50	50	65	65	
Manual Sewage Outlet	DN	mm	40	40	50	50	50	2*50	2*50	2*50	3*50	3*50	
Continuous Sewage Outlet	DN	mm	--	--	--	--	--	--	40	40	40	40	
Safety Valve	DN	mm	2*40	2*40	2*40	2*50	2*50	2*65	2*80	2*80	80*100	2*100	
Chimney Diameter	mm	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600	Ø700	Ø800	Ø900	Ø1000	Ø1200	

Remark 1: Above all data according to standards of natural gas low position calorific value 8400kcal/Nm<sup>3</sup>, diesel low position calorific value 10250kcal/kg.

Remark 2: Due to continuous improvement, we reserve the right to modify the appearance & specifications. The above parameters are for reference only, please refer to the final drawing.

# WNS OIL GAS FIRED CONDENSING STEAM BOILER



**FUEL: NATURAL GAS, DIESEL OIL**

**RATED EVAPORATION: 1-20T/H**

**RATED STEAM PRESSURE: 1.25/1.6 MPA**

**RATED STEAM TEMPERATURE: 194/204℃**

**DESIGNED HEAT EFFICIENCY: 100.2%-100.5%**

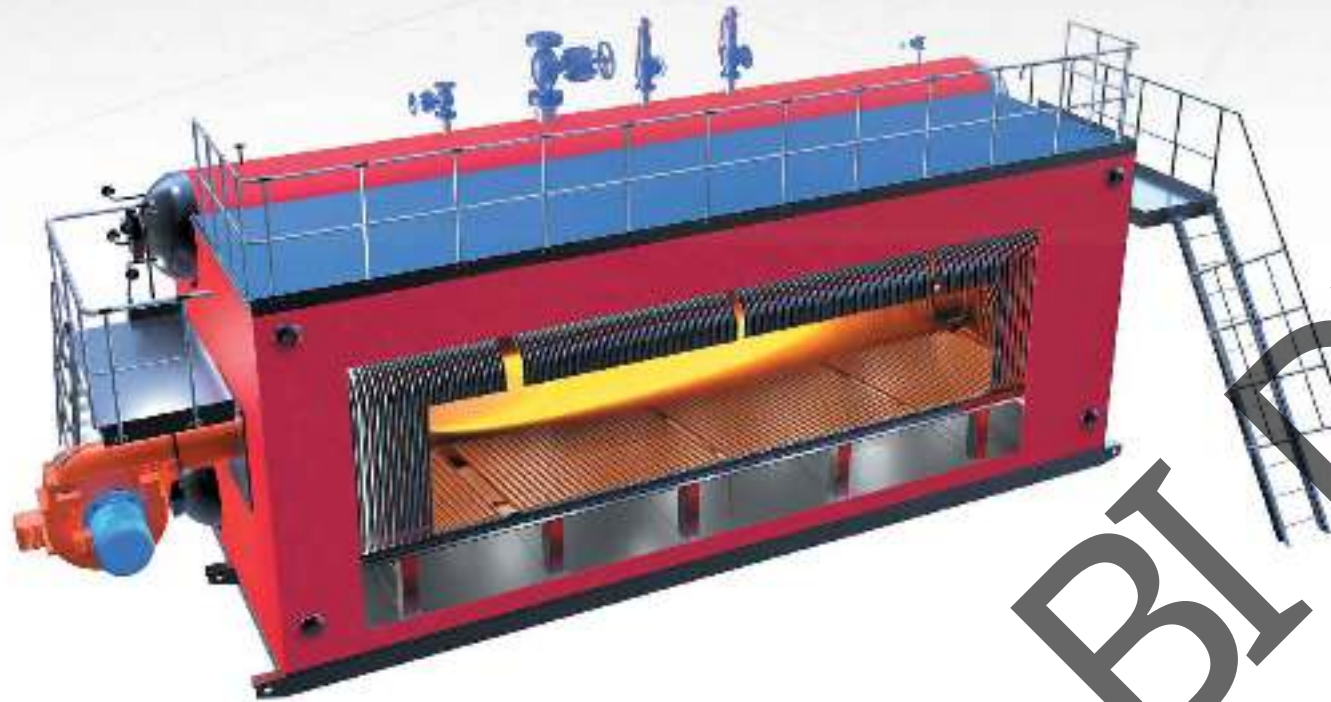
## TECHNICAL PARAMETER

Model		WNS1	WNS1.5	WNS2	WNS3	WNS4	WNS6	WNS8	WNS10	WNS15	WNS20
Rated Evaporation	t/h	1	1.5	2	3	4	6	8	10	15	20
Rated Steam Pressure	Mpa	1.25(1.6)									
Rated Steam Temp.	℃	194(204)									
Rated Inlet Water Temp.	℃	20					20(104)				
Heating Area Of Boiler Body	m <sup>2</sup>	19.3	27.9	36.5	54.8	62.3	112	125	165	237	290
Energy Saver Heating Area	m <sup>2</sup>	5.9	8.9	11.9	19.9	25.6	32.5	42.3	48.9	85.5	109
Condenser heating area	m <sup>2</sup>	7.9	13.9	19.9	25	32.2	43.6	56.6	81.9	150	192
Designed Heat Efficiency	%	100.3	100.2	100.2	100.3	100.2	100.2	100.2	100.2	100.5	100.4
Designed Ambient Temperature	℃	20									
Weight	T	4.8	6.5	7.8	8.8	11.6	14.1	17.9	21.8	31	38
Boiler Operating Water Volume	T	3.1	4	5.2	6.8	9	12.8	16.3	20.7	30.5	37.1
Boiler Full Water Volume	T	3.6	4.5	6.1	7.9	10.5	14.4	19.4	24.1	34.1	41
Boiler Water Supply Method		Positional Water Supply					Proportional Water Supply				
Burning Method:		Micro Positive Pressure Chamber Combustion									
Natural Gas	Nm <sup>3</sup> /h	70.2	105.6	140.5	211.1	281.4	422.1	562.5	705.6	1055.4	1410.1
Diesel Oil	Kg/h	60.4	90.2	121.4	181.1	239.5	362.1	479.6	601.5	902.8	1205.1
Transportation Size	L	3850	4380	4250	4690	5250	6100	6210	6853	7430	7890
	W mm	1900	2000	2100	2350	2540	2600	2920	3110	3550	3750
	H	2110	2240	2450	2580	2800	2980	3280	3460	3800	4050
Installation Size	L mm	4630	4750	5100	5680	6350	7450	7700	8230	9380	9700
	W	2800	2990	3000	3250	3440	3500	3820	4010	4350	4550
	H	3200	3560	3720	3850	4120	4350	5000	5200	5600	6100
Water Inlet	DN mm	32	32	40	40	40	40	50	50	65	65
Main Steam Outlet	DN mm	50	55	100	80	100	125	150	150	200	200
Secondary Steam Outlet	DN mm	32	32	40	40	40	50	50	50	50	50
Manual Sewage Outlet	DN mm	40	40	50	50	50	50	2*50	2*50	3*50	3*50
Continuous Sewage Outlet	DN mm	--	--	--	--	--	--	--	40	40	40
Safety Valve	DN mm	2*40	2*40	2*40	2*50	2*50	2*65	2*80	2*80	2*100	2*150
Chimney Diameter	mm	ø300	ø350	ø400	ø450	ø500	ø600	ø700	ø800	ø1000	ø1200

Remark 1: Above all data according to standards of natural gas low position calorific value8400kcal/Nm, diesel low position calorific value 10250kcal/kg.

Remark 2: Due to continuous improvement, we reserve the right to modify the appearance& specifications. The above parameters are for reference only, please refer to the final drawing.

# SZS SATURATED OIL GAS FIRED STEAM BOILER



**FUEL:** NATURAL GAS, DIESEL OIL

**RATED EVAPORATION:** 10-50T/H

**RATED STEAM PRESSURE:** 1.25/1.6 Mpa

**RATED STEAM TEMPERATURE:** 194/204℃

**DESIGNED HEAT EFFICIENCY:** 92.8%-93.2%

## TECHNICAL PARAMETER

Model		SZS10	SZS15	SZS20	SZS25	SZS30	SZS35	SZS40	SZS50	
Rated Evaporation	t/h	10	15	20	25	30	35	40	50	
Rated Steam Pressure	Mpa	1.25(1.6)								
Rated Steam Temp.	℃	194(204)								
Rated Inlet Water Temp.	℃	20(104)								
Designed Heat Efficiency	%	92.8	92.9	93	93	93.1	93.1	93.2	93.2	
Designed Ambient Temperature	℃	20								
Weight	T	30.6	40	45	48	52	59	65	70	
Boiler Operating Water Volume	T	8.2	10.8	13.3	15.4	19.5	23.2	28.6	32.5	
Boiler Full Water Volume	T	10	13.5	16.3	18.6	22.8	27.5	34.5	38.6	
Burning Method		Micro Positive Pressure Chamber Combustion								
Natural Gas	Nm <sup>3</sup> /h	790.3	1173.2	1545.3	1950.2	2340.6	2730	3115.4	3898.2	
		{591.1}	{1016.6}	{1342}	{1700.2}	{2035.6}	{2381.2}	{2710.5}	{3395.6}	
Diesel Oil	Kg/h	679.3	1000	1323.9	1698.5	2039	2380.2	2705.6	3398.4	
		{599}	{895.3}	{1161}	{1496.5}	{1801.2}	{2101.1}	{2385.4}	{2999.2}	
Transportation Size	L	7700	9270	9650	9650	10850	11780	12820	12820	
	W	2750	3450	3530	3710	3850	4150	4270	4390	
	H	3680	3800	3950	4050	4200	4250	4300	4400	
Water Inlet	DN	mm	50	50	65	65	80	80	80	100
Main Steam Outlet	DN	mm	150	150	200	200	200	250	250	300
Secondary Steam Outlet	DN	mm	50	50	50	50	50	50	50	
Manual Sewage Outlet	DN	mm	50	50	50	50	50	50	50	
Continuous Sewage Outlet	DN	mm	40	40	40	40	40	40	40	
Safety Valve	DN	mm	2*80	2*100	2*100	2*125	2*150	2*150	2*150	2*150
Chimney Diameter	mm	∅800	∅950	∅1100	∅1200	∅1300	∅1400	∅1500	∅1650	

Remark 1: Above all data according to standards of natural gas low position calorific value 8400kcal/Nm, diesel low position calorific value 10250kcal/kg.

Remark 2: Due to continuous improvement, we reserve the right to modify the appearance & specifications. The above parameters are for reference only, please refer to the final drawing.

# SZS FULLY AUTOMATIC SUPERHEATED STEAM BOILER



**FUEL:** NATURAL GAS, DIESEL OIL  
**RATED EVAPORATION:** 10-50T/H  
**RATED STEAM PRESSURE:** 1.25/1.6 MPA  
**RATED STEAM TEMPERATURE:** 350°C  
**DESIGNED HEAT EFFICIENCY:** 92.8%-93.1%

## TECHNICAL PARAMETER

Model		SZS10	SZS15	SZS20	SZS25	SZS30	SZS35	SZS40	SZS50
Rated Evaporation	t/h	10	15	20	25	30	35	40	50
Rated Steam Pressure	Mpa	1.25(1.6)							
Superheated Steam Temp.	°C	350							
Rated Inlet Water Temp.	°C	20(104)							
Designed Heat Efficiency	%	92.8	92.9	93	93	93.1	93.1	93.2	93.2
Designed Ambient Temperature	°C	20							
Weight	T	37.2	50	53	58	65	70	74	85
Boiler Operating Water Volume	T	9.3	11.6	15.2	16.9	21.8	24.8	29.8	35.8
Boiler Full Water Volume	T	11	14.8	18.1	19.9	24.2	28.9	36.5	40.3
Burning Method		Micro Positive Pressure Chamber Combustion							
Natural Gas	Nm <sup>3</sup> /h	901.8 (901.1)	1339.2 (1182.6)	1767.3 (1564)	2227.2 (1977.2)	2673.6 (2368.6)	3118 (2769.2)	3559.4 (3154.5)	4455.2 (3950.6)
Diesel Oil	Kg/h	771.3 (691)	1138.2 (1033.3)	1507.9 (1348.1)	1928.5 (1726.5)	2315 (2077.2)	2702.2 (2423.1)	3073.6 (2753.4)	3856.4 (3459.2)
Transportation Size	L	8120	9650	9650	10850	11780	12820	12820	12820
	W	3410	3850	4050	4250	4350	4500	4600	4700
	H	3750	3850	4200	4300	4350	4400	4400	4400
Installation Size	L	10250	12820	12820	13860	14790	15830	15830	15830
	W	6570	6000	6350	6700	7100	7300	7500	7700
	H	4680	4500	4850	5150	5200	5350	5500	5600
Water Inlet	DN mm	50	50	65	65	80	80	80	100
Main Steam Outlet	DN mm	150	150	200	200	200	250	250	300
Secondary Steam Outlet	DN mm	50	50	50	50	50	50	50	50
Manual Sewage Outlet	DN mm	50	50	50	50	50	50	50	50
Continuous Sewage Outlet	DN mm	40	40	40	40	40	40	40	40
Safety Valve	DN mm	2*80	2*100	2*125	2*125	2*150	2*150	2*150	2*150
Chimney Diameter	mm	ø900	ø950	ø1100	ø1200	ø1300	ø1400	ø1500	ø1650
Remark 1: Above all data according to standards of natural gas low position calorific value 8400kcal/Nm, diesel low position calorific value 10250kcal/kg.									
Remark 2: Due to continuous improvement, we reserve the right to modify the appearance & specifications. The above parameters are for reference only, please refer to the final drawing.									

# WDR ELECTRIC HEATING STEAM BOILER



ENERGY OPTIONS: AC380V  
 RATED EVAPORATION: 0.3-4T/H  
 RATED STEAM PRESSURE: 0.7/1.0/1.25 MPA  
 RATED STEAM TEMPERATURE: 174/184/194℃  
 DESIGNED HEAT EFFICIENCY: 98%

## MAIN FEATURES

1. Electrical control cabinet separation method is adopted to avoid the thermal aging of electrical components and affect the service life.
2. The boiler body adopts the boiler pressure vessel steel plate, and the longitudinal and girth welds of the furnace body are automatically welded, and X-ray inspection is performed.
3. No noise, no pollution, high thermal efficiency, the boiler body is made of high-quality and high-efficiency insulation materials for heat insulation, small heat loss, energy saving and consumption reduction.

## TECHNICAL PARAMETER

Model		WDR0.3	WDR0.5	WDR1	WDR1.5	WDR2	WDR3	WDR4
Rated Evaporation	t/h	0.3	0.5	1	1.5	2	3	4
Rated Steam Pressure	Mpa	0.7/1.0/1.25						
Rated Steam Temp.	℃	174/184/194						
Water Supply Temp.	℃	20						
Designed Heat Efficiency	%	98	98	98	98	98	98	98
Power Requirement		380V/50Hz						
Electric Heating Pipe Arrangement		Single-ended			Both ends			
Weight	T	0.85	1.2	1.5	1.6	2.1	2.5	3.1
Boiler Operating Water Volume	T	0.54	0.8	1.2	1.5	2	2.9	3.6
Boiler Full Water Volume	T	0.64	1	1.5	2	2.7	3.5	4.5
Transportation Size	L	mm	1700	1950	2340	2840	2840	2840
	W		1400	1480	1520	1450	1650	1750
	H		1600	1680	1680	1680	1870	2010
Water Inlet	DN	mm	31	32	40	40	40	40
Main Steam Outlet	DN	mm	40	50	80	80	100	100
Manual Sewage Outlet	DN	mm	40	40	40	40	50	50
Safety Valve	DN	mm	32	40	2*40	2*40	2*40	2*50

Remark: The above parameters are for reference only. The technical parameters and supporting auxiliary machines are subject to the design drawings.

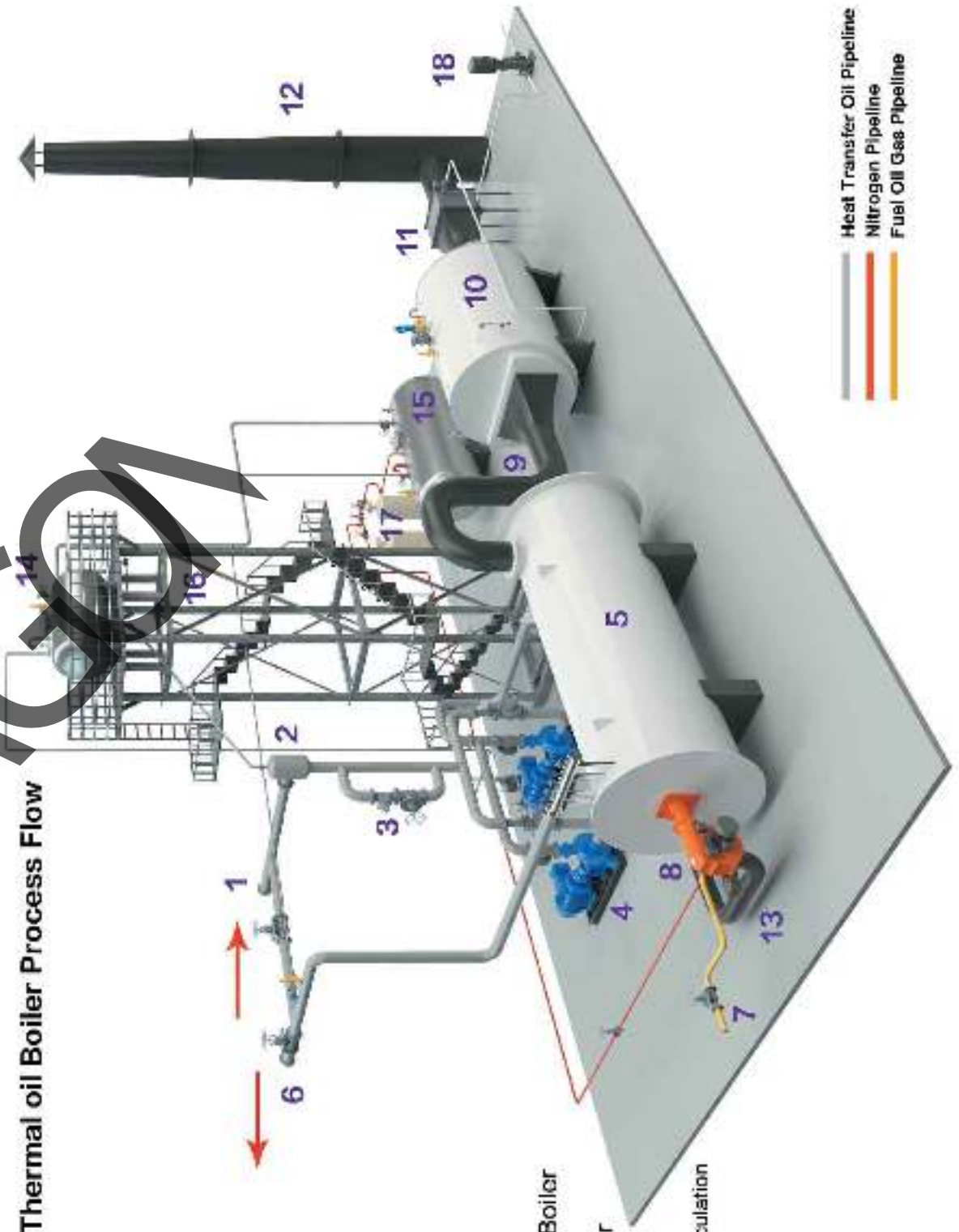


# Thermal Oil Boiler

Oil/Gas Fired Thermal Oil Boiler

Electric Heating Thermal Oil Boiler

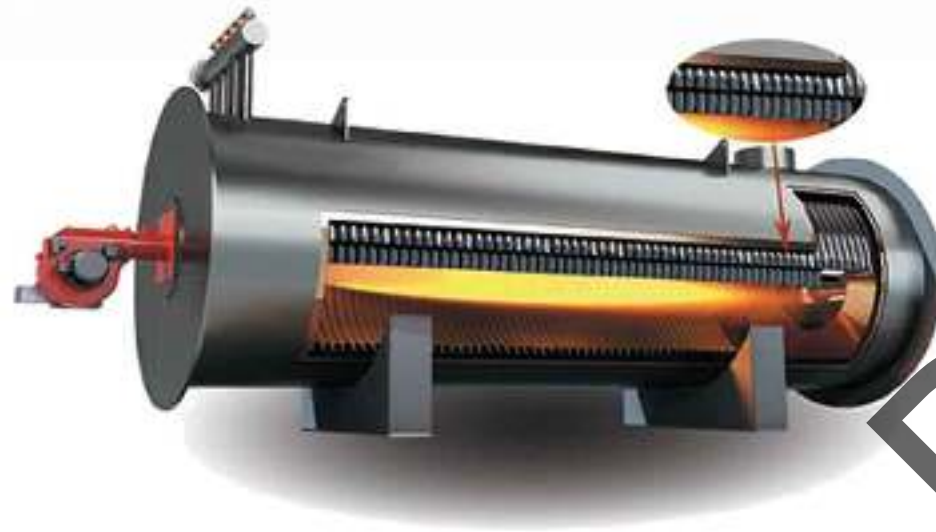
Coal/Biomass Fired Thermal Oil Boiler



Schematic Diagram Of Thermal oil Boiler Process Flow

- 1 Oil Return Port
- 2 Oil and Gas Separator
- 3 Filter
- 4 Circulating Oil Pump
- 5 Boiler Body
- 6 Oil Outlet
- 7 Fuel Oil Gas Inlet Port
- 8 Burner
- 9 Smoke Pipe
- 10 Waste Heat Recovery Boiler
- 11 Economizer/Condenser
- 12 Chimney
- 13 FGR Flue Gas External Circulation
- 14 Expansion Tank
- 15 Oil Storage Tank
- 16 High Slot Bracket
- 17 Nitrogen Tank
- 18 Water Pump

# YY(Q)W HORIZONTAL OIL GAS THERMAL OIL BOILER



**FUEL:** OIL/GAS FIRED  
**WORKING MEDIUM:** THERMAL OIL  
**TEMPERATURE:** MAX. TEMP. 320℃  
**DESIGNED HEAT EFFICIENCY:** 92%–98%  
**BOILER CAPACITY:** 120–12000KW

## TECHNICAL PARAMETER

Model	YY(Q)W 120(KW)	YY(Q)W 240(KW)	YY(Q)W 350(KW)	YY(Q)W 500(KW)	YY(Q)W 700(KW)	YY(Q)W 1000(KW)	YY(Q)W 1200(KW)	YY(Q)W 1400(KW)	YY(Q)W 2000(KW)	YY(Q)W 2400(KW)	
Rated Power	KW 120	240	350	500	700	1000	1200	1400	2000	2400	
Thermal Power	$\times 10^4$ kcal 10	20	30	40	60	80	100	120	160	200	
Heat Efficiency (%)	Y	96.10	95.09	96.28	96.77	96.92	96	96.06	96.09	96.07	95.06
	Q	98.05	95.04	98.23	98.10	98.53	98.52	98.16	98.33	98.55	98.50
Designed Pressure (Mpa)	1.1										
Medium Max. Temp. (℃)	320										
Circulation Oil Flow(m <sup>3</sup> /h)	12.5	28	30	30	60	80	100	100	160	160	
Oil Capacity (m <sup>3</sup> )	0.09	0.12	0.29	0.38	0.52	0.57	0.74	0.82	1.55	1.77	
Piping connection inner diameter(DN)	50	50	65	65	100	100	150	150	150	150	
Total Power (KW)	4.7	7.2	9.5	9.8	17.6	18.0	25.7	26.5	44.0	53.5	
Transportation Size	L	2280	2514	2769	3230	3590	3764	4374	5410	5640	5560
	H	1390	1320	1850	1650	1710	1810	1810	1810	2022	2354
Weight (kg)	1550	1632	2745	3146	3771	4496	4953	5580	7700	8765	
Model	YY(Q)W 3000(KW)	YY(Q)W 3500(KW)	YY(Q)W 4100(KW)	YY(Q)W 4700(KW)	YY(Q)W 5000(KW)	YY(Q)W 7000(KW)	YY(Q)W 8000(KW)	YY(Q)W 9000(KW)	YY(Q)W 10000(KW)	—	
Rated Power	KW 3000	3500	4100	4700	5000	7000	8000	9000	10000	—	
Thermal Power	$\times 10^4$ kcal 250	300	350	400	500	600	700	800	1000	—	
Heat Efficiency (%)	Y	96.00	96.10	96.01	96.20	96.18	96.17	92.98	96.06	96.11	—
	Q	98.02	95.03	98.05	98.07	98.04	98.06	92.15	98.39	98.05	—
Designed Pressure (Mpa)	1.1										
Medium Max. Temp. (℃)	320										
Circulation Oil Flow(m <sup>3</sup> /h)	180	200	250	250	350	400	350	500	600	—	
Oil Capacity (m <sup>3</sup> )	1.95	3.78	4.51	5.70	7.40	8.33	9.50	10.20	13.30	—	
Piping connection inner diameter(DN)	150	200	200	250	250	250	300	300	300	—	
Total Power (KW)	77.2	87.2	111.7	120.2	164.2	165	202	198	200	—	
Transportation Size	L	6194	6674	7256	7742	8390	9401	10440	10965	13300	—
	H	2254	2610	2807	3240	3406	3390	3550	3610	3740	—
Weight (kg)	10267	15713	17446	20669	20682	32311	34610	36652	49380	—	
Remark 1: Above all data according to standards of natural gas low position calorific value 8400kcal/m <sup>3</sup> , diesel low position calorific value 10250kcal/kg. Remark 2: Due to continuous improvement, we reserve the right to modify the appearance & specifications. The above parameters are for reference only, please refer to the final drawing. Remark 3: Y for diesel oil fired, Q for gas fired.											

# VERTICAL OIL GAS FIRED THERMAL OIL BOILER



**FUEL: OIL/GAS FIRED**

**WORKING MEDIUM: THERMAL OIL**

**TEMPERATURE: MAX. TEMP. 320°C**

**DESIGNED HEAT EFFICIENCY: 92%–98%**

**BOILER CAPACITY: 120–12000KW**

## TECHNICAL PARAMETER

Model		YV021	YV031	YV041	YV051	YV061	YV071	YV081	YV091	YV101	YV111
		120(KW)	240(KW)	360(KW)	540(KW)	720(KW)	900(KW)	1200(KW)	1800(KW)	2400(KW)	3600(KW)
Rated	KW	120	240	360	540	720	900	1200	1800	2400	3600
Thermal	Kcal/h	10	20	30	40	50	60	80	100	120	180
power	Kcal										
Heat	Y	92.80	96.21	97.20	96.17	96.02	95.80	95.86	95.83	95.87	95.86
Efficiency	Q	98.05	98.24	98.23	98.10	98.53	98.52	98.16	98.33	98.55	98.50
Efficiency	(%)										
Design Pressure	(Kpa)	1.1									
Medium Pres.		320									
Temp(°C)		320									
Construction		20	20	30	30	30	30	30	30	30	30
Flow(m³/h)		100	100	100	100	100	100	100	100	100	100
Oil Capacity(m³)		0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Flange Connection		50	50	50	50	50	50	50	50	50	50
Inner Diameter(DN)		50	50	50	50	50	50	50	50	50	50
Total Power(KW)		4.7	7.2	9.5	9.5	17.6	16.7	25.7	26.5	44.0	53.5
L		1575	1841	2123	2335	2703	2976	3622	4275	5662	5515
Transport	W	1540	1940	1977	1838	2115	2249	2390	2402	2240	2042
for											
Size(mm)	H	—	—	—	—	—	—	—	2400	2537	2660
Weight(kg)		1540	1841	1977	1838	2115	2249	2390	2402	2240	2042

Model		YV021	YV031	YV041	YV051	YV061	YV071	YV081	YV091	YV101	—
		1000(KW)	2000(KW)	3000(KW)	4000(KW)	6000(KW)	7000(KW)	8000(KW)	9000(KW)	10000(KW)	—
Rated	KW	1000	2000	3000	4000	6000	7000	8000	9000	10000	—
Thermal	Kcal/h	210	300	350	400	500	550	700	800	1000	—
power	Kcal										
Heat	Y	95.80	96.21	95.81	96.10	96.13	95.17	95.86	95.83	95.83	—
Efficiency	Q	98.05	98.24	98.06	98.10	98.04	98.06	98.15	98.33	98.05	—
Efficiency	(%)										
Design Pressure	(Kpa)	1.1									
Medium Pres.		320									
Temp(°C)		320									
Construction		20	20	25	25	30	30	30	30	30	—
Flow(m³/h)		100	100	100	100	100	100	100	100	100	—
Oil Capacity(m³)		3.95	3.78	4.51	5.70	7.40	8.35	9.50	10.20	11.50	—
Flange Connection		100	100	100	100	100	100	100	100	100	—
Inner Diameter(DN)		100	100	100	100	100	100	100	100	100	—
Total Power(KW)		37.2	37.2	111.7	120.3	186.2	185	103	103	100	100
L		6130	8294	9489	1555	—	1136	1057	11466	11575	—
Transport	W	2611	2444	3791	4450	—	4620	4100	4391	4197	—
for											
Size(mm)	H	2700	3140	2902	3115	—	3300	3520	3510	3600	—
Weight(kg)		12257	16743	17446	20353	25682	31020	34340	31852	42352	—

Remark 1: Above all data according to standard of industrial gas low pressure calorific value 8400 kcal/m³, diesel low calorific value 10230 kcal/kg.

Remark 2: Due to continuous improvement, we reserve the right to modify the apparatus specification. The above parameters are for reference only, please refer to the final drawing.

Remark 3: Y for diesel oil fired, Q for gas fired.

BI DRAGON

# ELECTRIC HEATING THERMAL OIL BOILER



## TECHNICAL PARAMETER

Model		YDW 9KW	YDW 30KW	YDW 60KW	YDW 90KW	YDW 120KW	YDW 150KW	YDW 180KW
Rated Thermal Power	MW	9	30	60	90	120	150	180
	X10 <sup>4</sup> Kcal	0.8	2.5	5	8	10	13	16
Heat Efficiency(%)		97						
Designed Pressure(Mpa)		1						
Medium Max. Temp.(°C)		320						
Circulation Oil Flow(m <sup>3</sup> /h)		3	12.5	12.5	25	25	30	30
Oil Capacity(m <sup>3</sup> )		0.06	0.025	0.05	0.11	0.11	0.11	0.13
Piping Connection Inner Diameter(DN)		25	50	50	50	50	65	65
Total Power(kW)		10.5	34.5	64.5	97	127	169	199
Transportation Size	L	1460	1990	1840	1840	1840	2000	2160
	W	921	485	485	485	485	1132	1132
	H	778	1587	1674	2264	1882	1836	1587
Weight(kg)		155	344	421	595	725	768	845
Model		YDW-240	YDW-300	YDW-360	YDW-480	YDW-720	YDW-750	YDW-1000
		kW	kW	kW	kW	kW	kW	kW
Rated Thermal Power	MW	240	300	360	480	720	750	1000
	X10 <sup>4</sup> Kcal	20	25	30	40	60	63	80
Heat Efficiency(%)		97						
Designed Pressure(Mpa)		1						
Medium Max. Temp.(°C)		320						
Circulation Oil Flow(m <sup>3</sup> /h)		50	50	50	50	60	60	100
Oil Capacity(m <sup>3</sup> )		0.21	0.3	0.35	0.48	0.55	0.55	0.9
Piping Connection Inner Diameter(DN)		65	80	80	80	100	100	125
Total Power(kW)		256.5	316.5	376.5	496.5	743.5	773.5	1023.5
Transportation Size	L	2160	2390	2180	2270	2500	2500	3020
	W	1120	1300	1120	1460	1580	1580	1720
	H	2206	2380	2427	2590	2304	2304	2380
Weight(kg)		1168	1590	2162	2505	2500	2500	3184
Remark 1: Due to continuous improvement, we reserve the right to modify the appearance and specifications. Remark 2: The above parameters are for reference only; please refer to the final drawing. Remark 3: please contact us for more unified models, we can also customize new models according to user needs.								

FUEL: ELECTRIC

WORKING MEDIUM: THERMAL OIL

TEMPERATURE: MAX. 320°C

DESIGNED HEAT EFFICIENCY: 97%

BOILER CAPACITY: 9-5600KW

# FIXED GRATE MANUAL FEEDING THERMAL OIL BOILER



**FUEL:** COAL, BIOMASS FIRED  
**WORKING MEDIUM:** THERMAL OIL  
**TEMPERATURE:** MAX. 320°C  
**DESIGNED HEAT EFFICIENCY:** 76-79%  
**BOILER CAPACITY:** 120-2000KW

## TECHNICAL PARAMETER

Vertical YGL- (kW) F		Horizontal YGW- (kW) F								
Model		120	240	350	500	700	1000	1200	1400	2000
Rated Thermal Power	kW	120	240	350	500	700	1000	1200	1400	2000
	X10 <sup>4</sup> Kcal	10	20	30	40	60	80	100	120	160
Heat Efficiency (≥%)	L	74.5	74.2	74.61	74.9	77.32	77.47	78.17	77.38	79.14
	W	--	--	--	--	--	--	--	77.14	79.14
Design Pressure (Mpa)		1.1								
Medium Max. Temp. (°C)		320								
Circulation Oil Flow (m <sup>3</sup> /h)		12.5	20	30	40	60	80	100	100	160
Oil Capacity (m <sup>3</sup> )	L	0.08	0.12	0.28	0.36	0.61	0.68	0.93	1.2	1.69
	W	--	--	--	--	--	--	--	1.1	1.69
Piping Connection Inner Diameter (DN)		50	50	65	65	100	150	150	150	150
	Total Power (kW)	6.7	10	13	14.5	23.5	29	40.7	40.7	60
Dimension	L	--	--	--	--	--	--	--	--	3200
	W	∅ 1150	∅ 1300	∅ 1700	∅ 1700	∅ 1960	∅ 2050	∅ 2160	∅ 2290	∅ 2020
	H	2400	2650	3000	3480	3805	4415	4760	5445	6090
	L	--	--	--	--	--	--	--	3430	4800
	W	--	--	--	--	--	--	--	2020	2020
	H	--	--	--	--	--	--	--	3448	4025
Total Weight (kg)		1550	1960	3515	3801	4636	6043	7503	8822	12690
		--	--	--	--	--	--	--	10874	16235

Remark:  
 1. L-Vertical W-Horizontal  
 2. Due to continuous improvement, we reserve the right to modify the appearance and specifications. The above parameters are for reference only; please refer to the final drawing.  
 3. Please contact us for more unlisted models, we can also customize new models according to user needs.



# VERTICAL CHAIN GRATE THERMAL OIL BOILER



**FUEL:** COAL, BIOMASS FIRED

**WORKING MEDIUM:** THERMAL OIL

**TEMPERATURE:** MAX. 320°C

**DESIGNED HEAT EFFICIENCY:** 76-78%

**BOILER CAPACITY:** 700-2000KW



## TECHNICAL PARAMETER

Model		YLL-700MA	YLL-1000MA	YLL-1200MA	YLL-1400MA	YLL-2000MA
Rated	kW	700	1000	1200	1400	2000
Thermal Power	X10 <sup>4</sup> Kcal	60	80	100	120	160
Heat Efficiency (≥%)		77.18	76.18	76.4	77.17	78.08
Designed Pressure (Mpa)		1.1				
Medium Max. Temp. (°C)		320				
Circulation Oil Flow (m <sup>3</sup> /h)		60	80	100	100	160
Oil Capacity (m <sup>3</sup> )		0.58	0.67	0.84	1.1	1.55
Piping Connection Inner Diameter(DN)		100	150	150	150	150
Total Power (kW)		25.8	31.4	43.45	43.45	62.75
Dimension (mm)	L	4710	4710	4710	4710	5821
	W	1830	1830	1930	1930	2050
	H	4145	4751	4995	5570	5983
Total Weight (kg)		10746	11812	12980	13930	21365

Remark 1: Due to continuous improvement, we reserve the right to modify the appearance and specifications. The above parameters are for reference only; please refer to the final drawing.

Remark 2: please contact us for more unlisted models; we can also customize new models according to user needs.

## TECHNICAL PARAMETER

# HORIZONTAL CHAIN GRATE THERMAL OIL BOILER



**FUEL:** COAL, BIOMASS FIRED

**WORKING MEDIUM:** THERMAL OIL

**TEMPERATURE:** MAX. 320°C

**DESIGNED HEAT EFFICIENCY:** 76-79.5%

**BOILER CAPACITY:** 1200-16500KW

Model		YMW 1200 MW	YMW 1400 MW	YMW 2000 MW	YMW 2400 MW	YMW 3000 MW	YMW 3500 MW	YMW 4100 MW	YMW 4700 MW
Rated Thermal Power	KW	1200	1400	2000	2400	3000	3500	4100	4700
	10 <sup>4</sup> kcal/h	100	120	160	200	250	300	330	400
Heat Efficiency (%)		76.46	77.7	78.08	78.08	78.47	78.5	79.1	79.5
Designed Pressure (MPa)		1.1							
Medium Max. Temp. (°C)		320							
Circulation Oil Flow (m <sup>3</sup> /h)		100	100	160	180	200	200	250	250
Oil Capacity (m <sup>3</sup> )		1	1.1	1.5	2.2	2.38	3.1	3.4	3.8
Piping Connection Inner Diameter (DN)		150	150	150	150	200	200	200	200
Total Power (KW)		43.45	43.45	65.75	70.75	85.75	99.35	118.05	132.55
Dimension (mm)	L	4700	4700	5811	5811	6834	8014	9014	12214
	W	2020	1910	2040	2040	2040	2500	2500	2500
	H	3900	3908	4040	4340	4487	4487	4945	4874
Total Weight (kg)		17000	18000	25000	25000	34000	38800	40000	45000

Model		YMW 5000 MW	YMW 7000 MW	YMW 8200 MW	YMW 9300 MW	YMW 12000 MW	YMW 13900 MW	YMW 16500 MW	
Rated Thermal Power	KW	5000	7000	8200	9300	12000	13900	16500	--
	10 <sup>4</sup> kcal/h	500	600	700	800	1000	1200	1600	--
Heat Efficiency (%)		79.5	79.1	79.5	79.7	81.1	79.1	80.01	--
Designed Pressure (MPa)		1.1							
Medium Max. Temp. (°C)		320							
Circulation Oil Flow (m <sup>3</sup> /h)		300	340	400	520	600	800	1000	--
Oil Capacity (m <sup>3</sup> )		4.5	7.5	10	11.2	12	13.5	16.5	--
Piping Connection Inner Diameter (DN)		200	250	250	250	300	350	400	--
Total Power (KW)		179.75	180.9	180.9	209.4	375.8	375.5	520	--
Dimension (mm)	L	9850	9870	10250	11200	11810	12290	14950	--
	W	3040	3200	3200	3200	3170	3685	4100	--
	H	3235	3287	3432	3372	3670	3991	6605	--
Total Weight (kg)		50000	70000	85000	95400	105000	115800	162240	--

Remark 1: Due to continuous improvement, we reserve the right to modify the appearance and specifications. The above parameters are for reference only; please refer to the final drawing.

Remark 2: please contact us for more unfixed models; we can also customize new models according to user needs.

# OIL GAS FIRED MOLTEN SALT FURNACE



## TECHNICAL PARAMETER

Mode		RYY(Q)-450 Y(Q)	RYY(Q)-1400 Y(Q)	RYY(Q)-2000 Y(Q)	RYY(Q)-2400 Y(Q)	RYY(Q)-3000 Y(Q)	RYY(Q)-4700 Y(Q)
Rated Power	KW	450	1400	2000	2400	3000	4700
Thermal Power	$\times 10^3$ Kca	40	120	160	200	250	400
Heat Efficiency	(%)	80	80	80	80	80	80
Designed Pressure	(Mpa)	1.1	1.1	1.1	1.1	1.1	1.1
Medium Max. Temp.	( $^{\circ}$ C)	450	440	440	440	440	430
Salt Volume	( $m^3$ )	0.51	1.65	1.9	2.41	3.5	5
Piping Connection Inner Diameter	(DN)	65	125	125	150	150	200
Total Power	(kW)	11	30	37	37	37	75
Dimension (mm)	W	$\varnothing$ 1670	$\varnothing$ 1946	$\varnothing$ 2136	$\varnothing$ 2340	$\varnothing$ 2700	$\varnothing$ 2900
	H	4249	5629	5876	6570	7365	8070
Total Weight	(kg)	4384	7469	9725	10826	15330	16657

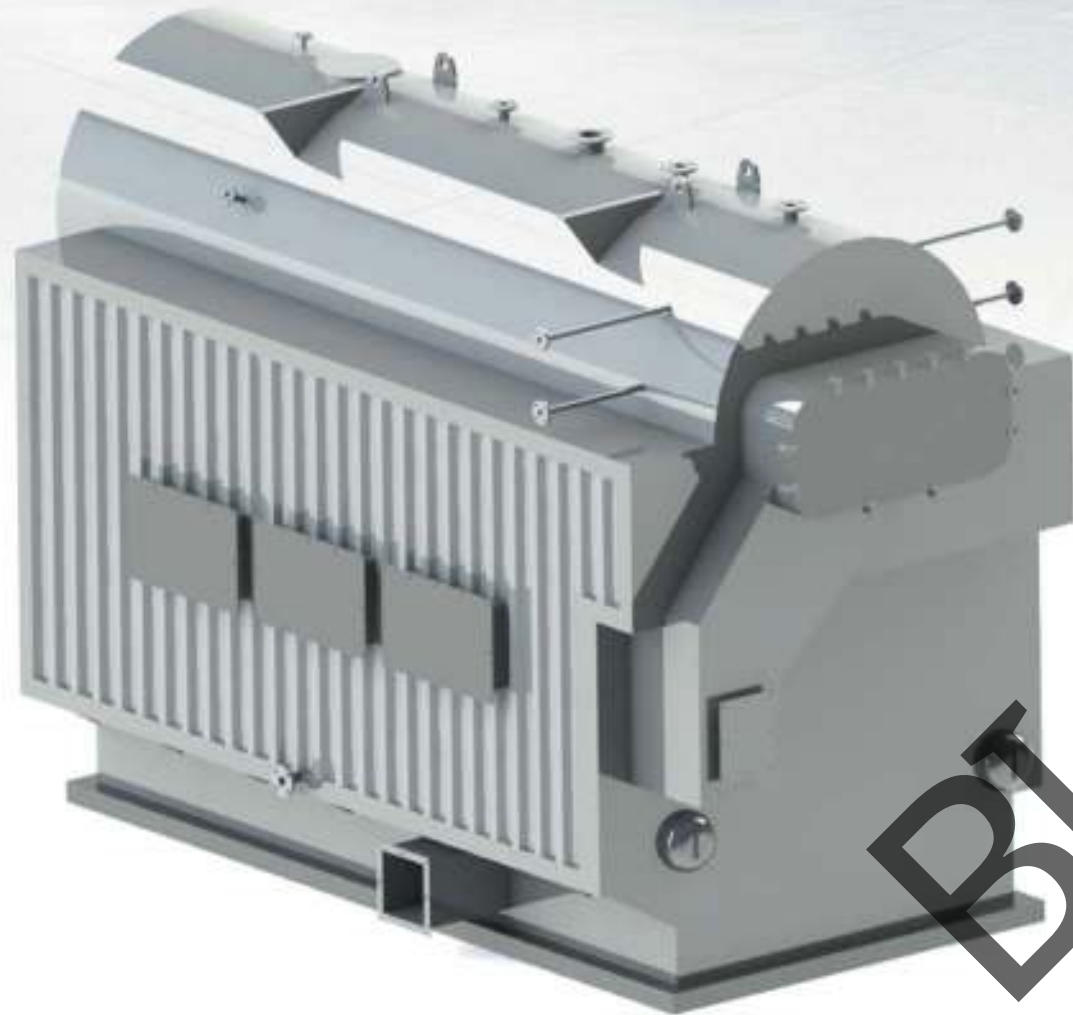
Remark 1: Above all data according to standards of natural gas low position calorific value 8400kcal/Nm, diesel low position calorific value 10250kcal/kg.

Remark 2: Due to continuous improvement, we reserve the right to modify the appearance & specifications. The above parameters are for reference only, please refer to the final drawing.

Remark 3: Y for diesel oil fired, Q for gas fired.



# SOLID FUEL BOILER



## TECHNICAL PARAMETER

Model	DZH1-1.0-SCI	DZH2-1.0-SCI DZH2-1.25-SCI DZH2-1.6-SCI	DZH4-1.25-SCI DZH4-1.6-SCI	DZH6-1.25-SCI DZH6-1.6-SCI DZH6-2.5-SCI	SZH10-1.25-SCI SZH10-1.6-SCI SZH10-2.5-SCI	SZH15-1.25-SCI SZH15-1.6-SCI SZH15-2.5-SCI	SZH20-1.25-SCI SZH20-1.6-SCI SZH20-2.5-SCI
Rated Steam Capacity(t/h)	1	2	4	6	10	15	20
Rated Working Pressure(Mpa)	1.0	1.0/1.25/1.6	1.25/1.6	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 Temp.(°C)	184	184/194/204	194/204	194/204/226	194/204/226	194/204/226	194/204/226
Feed-water Temp.(°C)	20	20	20	60	60	60	104
Boiler proper heating area(m <sup>2</sup> )	33.5	63.5	116	156	235.6	412	508
Effective Boiler Area(m <sup>2</sup> )	2.1	3.2	5.2	7.8	11.8	17.3	21
Water Volume(m <sup>3</sup> )	3.6	6.5	9.2	7.3	12.4	15.3	21.6
Design Efficiency (%)	>82	>82	>82	>82	>82	>82	>82
Design of Fuel	Biomass, Jute, Waste Fabric Fired						
Fuel Consumption (kg/h)	175	350	700	1048	1748	2620	3496
Transportation size(L*W*H)(m)	4.7*1.8*2.9	5.0*2.6*3.4	6.0*2.9*3.6	5.3*3.1*3.5	6.8*3.4*3.5	8.8*3.4*3.54	10.2*3.41*3.54
Weight(t)	13	17	28	25	31	42	50

FUEL: COAL/BIOMASS FIRED

RATED EVAPORATION: 1-20T/H

RATED STEAM PRESSURE: 1.0/1.25/1.6/2.5 MPA

RATED STEAM TEMPERATURE: 184/194/204/226°C

DESIGNED HEAT EFFICIENCY: 78%-85%

# BIOMASS FIRED STEAM BOILER



**FUEL: COAL/WOOD PELLET**  
**RATED EVAPORATION: 1-20T/H**  
**RATED STEAM PRESSURE: 1.0/1.25/1.6/2.5 MPA**  
**RATED STEAM TEMPERATURE: 184/194/204/226℃**  
**DESIGNED HEAT EFFICIENCY: 82%-87%**



## TECHNICAL PARAMETER

Model	DZL1-1.0-SC1	DZL2-1.0-SC1 DZL2-1.25-SC1 DZL2-1.6-SC1	DZL4-1.25-SC1 DZL4-1.6-SC1	SZL6-1.25-SC1 SZL6-1.6-SC1 DZL6-2.5-SC1	SZL10-1.25-SC1 SZL10-1.6-SC1 SZL10-2.5-SC1	SZL15-1.25-SC1 SZL15-1.6-SC1 SZL15-2.5-SC1	SZL20-1.25-SC1 SZL20-1.6-SC1 SZL20-2.5-SC1
Rated Steam Capacity(t/h)	1	2	4	6	10	15	20
Rated Working Pressure(Mpa)	1.0	1.0/1.25/1.6	1.25/1.6	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 Temp.(℃)	184	184/194/204	194/204	194/204/226	194/204/226	194/204/226	194/204/226
Feed-water Temp.(℃)	20	20	20	60	60	60	104
Boiler proper heating area(m <sup>2</sup> )	33.5	63.5	116	155	235.6	412	508
Effective Boiler Area(m <sup>2</sup> )	2.1	3.2	5.2	7.8	11.8	17.3	21
Water Volume(m <sup>3</sup> )	3.6	6.5	9.2	7.3	12.4	15.3	21.6
Design Efficiency (%)	>87	>87	>87	>87	>87	>87	>87
Design of Fuel	Coal, Wood Pellet						
Fuel Consumption (kg/h)	175	350	700	1048	1748	2620	3496
Transportation size(L*W*H)(m)	5.5*1.8*2.9	5.8*2.6*3.4	6.8*2.9*3.6	6.1*3.1*3.5	7.6*3.4*3.5	9.6*3.4*3.54	11*3.41*3.54
Weight(t)	13	17	28	25	31	42	50

# Project

PDF Compressor Free Version



3 Ton LPG Steam Boiler In Cambodia



10 Ton Oil/Gas Steam Boiler In Iran



5 Ton Steam Boiler In Bangladesh



8 Ton Gas Steam Boiler In Philippines



4 Ton Gas Steam Boiler In Mexico



3 Ton Oil/Gas Steam Boiler In Peru



6 Ton Diesel Oil Fired Steam Boiler In Russia



1 Ton Oil/Gas Fired Steam Boiler In Ecuador

# Project

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Thermal Fluid Heater In Argentina Chemical Plant



Coal Fired Thermal Oil Boiler In Kazakhstan Asphalt Heating Plant



Gas Fired Thermal Oil Boiler In USA  
G.E. Company(China Branch Company)



Waste Heat Recovery Boiler In Pakistan



Thermal Oil Heater in UAE Lubricant Factory



Gas Fired Thermal Oil Boiler in Algeria



200x10<sup>4</sup> Kcal Molten Salt Furnace In Brazil



Thermal oil steam generator in Egypt

# CUSTOMER VISITING



# Company Certificate

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