

鍋爐產品型錄 Boiler Product Catalog

共享科技 體驗完美 貴於品質 恆於服務 Sharing Perfection Quality Service

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Catalog

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TP

Sharing Perfection

boilers

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TP-SZL Series Water Pipe Steam Boiler



INTRODUCTION TO SERIES OF TP-SZL BOILERS:

Series of TP-SZL Boiler is the horizontal dual cylinder portrait arranged, chain grating, pipe steam and hot water boiler designed by our technical personnel according to advanced technology and experiences from home and abroad. The technology, performance and environmental protective index of this series of products reach the international advanced level, and this product is the mainstay in boiler industry.

This boiler has quick fitting structure for assembly. The 4-6t/h boiler has quick fitting pipe structure, it is completely assembled in the factory, the boiler of $6\sim25t/h$ is composed of 2 main components: The upper assembled component is the heat receiving part, and the lower assembled component is of combustion equipment.

The former part of the boiler body is arranged as water cooling wall, the upper part of it is connected to boiler cylinder, and its lower part is connected to collective chest, so as to form a combustion room and absorb the radiated heat from the furnace; its rear part is arranged with dense convection pipe bundle between upper and lower boiler cylinders; the high temperature smog after combustion shall stand for twice returning flushing transversely to the heat accepting surfaces, and shall be introduced to coal saver singly arranged, and flow into duster and exhausted from chimney in the end.

The 20t/h assembled water pipe boiler is composed of front furnace, rear furnace, convection pipe bundle, coal saver and chain grating, and which are assembled in big components respectively for delivery.

This series of boiler absorbs the merits from quick fitting boiler; it is compact in structure, the boiler furnace is one storey arranged, convenient for site installation, short in construction period, cheap in cost, simple in operation and etc. This series of steam boiler is suitable for industrial and living steam consumption; the correspondent capacity hot water boiler is applied for industrial and civil heating purpose.



\setminus	Item			Specification of Package and Shop-assembled Water Tube Coal-fired Boiler								
			★ TP-SZL4-1.25-All TP-SZL4-1.6-All TP-SZL4-2.45-All	★ TP-SZL6-1.25-All(快) TP-SZL6-1.6-All TP-SZL6-2.45-All	★ TP-SZL6-1.25-All(組) TP-SZL6-1.57-All TP-SZL6-2.45-All	★ TP-SZL8-1.25-All TP-SZL8-1.6-All TP-SZL8-2.45-All	★ TP-SZL10-1.25-All TP-SZL10-1.6-All TP-SZL10-2.45-All	★ TP-SZL15-1.25-All TP-SZL15-1.6-All TP-SZL15-2.45-All	★ TP-SZL20-1.6-All TP-SZL20-2.45-All	★ TP-SZL25-1.6-All TP-SZL25-2.45-All		
	Rated Ev	vaporation (t/h)	Capacity	4	6	6	8	10.0	15	20	25	
	Rated	l Pressure ((Mpa)	1.25/1.6/2.45	1.25/1.6/2.45	1.25/1.57/ 2.45	1.25/1.6/2.45	1.25/1.6/2.45	1.25/1.6/2.45	1.6/2.45	1.6/2.45	
	Rated Stea	am Temper	ature (°C)	194/204/225	194/204/225	194/204/225	194/204/225	194/204/225	194/204/225	204/225	204/225	
	Water Sup	ply Temper	rature (°C)	20	20	20	20	20	20	20	20	
		Bod	y (m ²)	21(Radiation) 78.5(Convection)	21(Radiation) 105.1(Convection)	139.2	26.1(Radiation) 184(Convection)	29.5(Radiation) 204.1(Convection)	34.8(Radiation) 283.7(Convection)	504(Steam)	90.5(Radiation) 482.5(Convection) 118 (Superheater)	
	Heating Surface	Econon	nizer (m ²)	38.5	109	130.8	130.8	174.4	348.8 (Steam)	377.6 (Steam) 236 (Water)	381.5	
		Air pi	reheater	/	/	/	/	1	/	/	/	
Furnace	Grate Ef	fective Sur	face (m ²)	5.3	7.8	7.8	10.2	12	18	23.2	28.6	
	Suitable	Designed	l Coal Type	AII	AII	AII	AII	AII	AII	AII	AII	
	Fuel	Low Value(K	heating (CAL/kg)	5019	5019	5019	5019	5019	5019	5019	5019	
	Fuel Co	onsumption	n (kg/h)	591	884	880	1155	1443	2157	2866	3617	
	Therm	al Efficien	cy (%)	81	81	81	81.3	82	82	82	82	
	Maximum shipping weight (t)		32	40	21	25	28	30	30	36.8		
	Maximum shipping dimensions (m)		7.46 x 2.65 x 3.52	8.5 x 3.2 x 3.54	7 x 2.7 x 3.5	6.9 x 3.16 x 3.524	7.89 x 3.26 x 3.53	10 x 3.2 x 3.5	11 x 3.2 x 3.5	11.5 x 3.24 x 3.53		
	Boiler As (Length)	Boiler Assembled Dimensions (Length xWidth xHeight) (m)		7.46 x 3.5 x 4.4	9.1 x 5.1 x 4.8	8 x 3.6 x 6.2	8.4 x 4.0 x 6.2	9.380 x 4.0 x 6.2	13 x 5.6 x 6.7	14 x 5.6 x 6.7	17 x 6.5 x 8.5	
		Air volu	ıme (m ³ /h)	17245	12000-24000	12000-24000	27045-31554	30000	33318-50356	36762-69347	60611-94052	
	I.D Fan	Air Pre	ssure (Pa)	3099-3040	3980-4245	3980-4245	3895-3932	4030-4120	3628-3393	2824-3874	3112-3688	
		Rotatio (r/	onal Speed min)	1750	1750	1750	1750	1750	1750	1750	1750	
		★ Motor Efficiency (kw)		22	37	37	55	55	75	110	110	
		Air volume (m ³ /h)		3742-7226	12000-7000	12000-7000	14840-16281	15012.2	31400-19400	23003-32079	33173-60960	
	FD Fan	Air Pre	ssure (Pa)	1275-2036	1442-2109	1442-2109	3151-2843	2241.6	1450-2380	2559-2668	2150-3401	
	1.01ai	D Fan Rotational Speed (r/min)		3500	3500	3500	3500	3500	3500	3500	3500	
		★ Motor (I	Efficiency kw)	5.5	7.5	11	15	15	22	30	55	
Auxiliary		Rotatio (r/	nal Speed min)	2900/3500	2900/3500	2900/3500	2900/3500	2900/3500	2900/3500	2900/3500	2900/3500	
Machine	Feed Water Pump	Lif	ft (m)	150	150	150	175	175	170	180	238	
		★ Motor (1	Efficiency kw)	7.5	7.5	7.5	15	15	22	30	45	
		м	odel	GL-5P	GL-10W	GL-10P/110	GL-16P	GL-16P	GL-20P/11	GL-20PWI	GL-30P	
	Speed		Model	YCT112-4A	YCT112-4B	YCT112-4B	YCT132-4A	YCT132-4A	YCT132-4B	JZTY22-4	YCT160-4A	
	Governor	Motor	Power	1.1	1.1	1.1	1.1	1.1	1.5	1.5	2.2	
			Rotational Speed	125-1250	125-1250	125-1250	125-1250	125-1250	125-1250	125-1250	125-1250	
	Cinder	Motor	Power	1.1	1.5	1.5	1.5	1.5	2.2	2.2	2.2	
	Conveyor		Rotational Speed	960	960	960	960	960	960	960	960	
	Dust	Collector N	Model	XTD-4	XTD-6	XTD-6	XTD-10	XTD-10	XTD-15	XTD-20	XTD-25	

TP-SZL Series Water Pipe Hot Water Boiler



INTRODUCTION TO SERIES OF TP-SZL BOILERS:

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			★ TP-SZL4-1.25-All TP-SZL4-1.6-All TP-SZL4-2.45-All	★ TP-SZL6-1.25-All(快) TP-SZL6-1.6-All TP-SZL6-2.45-All	★ TP-SZL6-1.25-All(組) TP-SZL6-1.57-All TP-SZL6-2.45-All	★ TP-SZL8-1.25-All TP-SZL8-1.6-All TP-SZL8-2.45-All	★ TP-SZL10-1.25-All TP-SZL10-1.6-All TP-SZL10-2.45-All	★ TP-SZL15-1.25-All TP-SZL15-1.6-All TP-SZL15-2.45-All	★ TP-SZL20-1.6-All TP-SZL20-2.45-All	★ TP-SZL25-1.6-All TP-SZL25-2.45-All	
	Rated Evaporation Capacity (MW)			2.8	4.2	4.2	5.6	7.0	10.5	14	17.5
	Rated	l Pressure	(Mpa)	0.7	1.0	1.0	1.0/1.25	1.0/1.25	1.0/1.25	1.0/1.25	1.0/1.25
	Output Wa	ater Tempe	erature(°C)	95	115	115	115/130	115/130	115/130	115/130	115/130
	Return Water Temperature(°C)			70	70	70	70	70	70	70	70
		Bod	ły (m ²)	21(Radiation) 78.5(Convection)	21(Radiation) 105.1(Convection)	139.2	26.1(Radiation) 184(Convection)	29.5(Radiation) 204.1(Convection)	34.8(Radiation) 283.7(Convection)	396(Water)	90.5(Radiation) 482.5(Convection)
	Heating Surface	Econor	nizer (m ²)	118 (Superheater)	109	130.8	130.8	174.4	174.4	236	381.5
		Air p	reheater	1	1	/	1	1	1	/	1
Furnace	Grate Ef	fective Sur	face (m ²)	5.3	7.8	7.8	10.2	12	18	23.2	28.6
	Suitable	Designed	d Coal Type	AII	All	All	All	All	All	All	All
	Fuel	Low Value(I	heating KCAL/kg)	5019	5019	5019	5019	5019	5019	5019	5019
	Fuel C	onsumptio	n (kg/h)	591	884	880	1155	1443	2157	2866	3617
	Therm	al Efficier	ncy (%)	81	81	81	81.3	82	82	82	82
	Maximum shipping weight (t)			32	40	21	25	28	30	30	36.8
	Maximum shipping dimensions (m)		7.46 x 2.65 x 3.52	8.5 x 3.2 x 3.54	7 x 2.7 x 3.5	6.9 x 3.16 x 3.524	7.89 x 3.26 x 3.53	10 x 3.2 x 3.5	11 x 3.2 x 3.5	11.5 x 3.24 x 3.53	
	Boiler Assembled Dimensions (Length x Width x Height) (m)		imensions Height) (m)	7.46 x 3.5 x 4.4	9.1 x 5.1 x 4.8	8 x 3.6 x 6.2	8.4 x 4.0 x 6.2	9.380 x 4.0 x 6.2	13 x 5.6 x 6.7	14 x 5.6 x 6.7	17 x 6.5 x 8.5
		Air volume (m ³ /h)		17245	12000-24000	12000-24000	27045-31554	30000	33318-50356	36762-69347	60611-94052
	I D Fan	Air Pressure (Pa)		3099-3040	3980-4245	3980-4245	3895-3932	4030-4120	3628-3393	2824-3874	3112-3688
	I.D Fan	Rotational Speed (r/min)		1750	1750	1750	1750	1750	1750	1750	1750
		★ Motor Efficiency (kw)		22	37	37	55	55	75	110	110
		Air volu	ume (m ³ /h)	3742-7226	12000-7000	12000-7000	14840-16281	15012.2	31400-19400	23003-32079	33173-60960
	E D Ean	Air Pre	essure (Pa)	1275-2036	1442-2109	1442-2109	3151-2843	2241.6	1450-2380	2559-2668	2150-3401
	1.01ai	Rotatio (r/	onal Speed /min)	3500	3500	3500	3500	3500	3500	3500	3500
		★ Motor (r Efficiency kw)	5.5	7.5	11	15	15	22	30	55
Auxiliary		R Speed	Rotational d (r/min)	3500	3500	3500	3500	3500	3500	3500	3500
Machine	Feed Water Pump	Li	ft (m)	150	150	150	175	175	170	180	238
		★ Motor (r Efficiency kw)	7.5	7.5	7.5	15	15	22	30	45
		м	lodel	GL-5P	GL-10W	GL-10P/110	GL-16P	GL-16P	GL-20P/ll	GL-20PWI	GL-30P
	Speed		Model	YCT112-4A	YCT112-4B	YCT112-4B	YCT132-4A	YCT132-4A	YCT132-4B	JZTY22-4	YCT160-4A
	Governor	Motor	Power	1.1	1.1	1.1	1.1	1.1	1.5	1.5	2.2
			Rotational Speed	125-1250	125-1250	125-1250	125-1250	125-1250	125-1250	125-1250	125-1250
	Cinder	Mata	Power	1.1	1.5	1.5	1.5	1.5	2.2	2.2	2.2
	Conveyor	Motor	Rotational Speed	960	960	960	960	960	960	960	960
	Dust	Collector !	Model	XTD-4	XTD-6	XTD-6	XTD-10	XTD-10	XTD-15	XTD-20	XTD-25

TP-SZL Series Anthracite Assembled Steam Boiler



Introduction to Anthracite Coal Series of TP-SZL Boiler:

Series of TP-SZL type is the dual boiler cylinder longitudinal assembled water pipe boiler. The capacity of evaporation is 6-20t/h with the working pressure of 1.25-2.45Mpa. The boiler is composed of upper furnace and lower combustion body, the economizer and air pre-heater are arranged at the rear part of the boiler; the combustion device uses center flexible grating; the smog after combustion shall have twice backhaul flushing transverse convection on heat receiving surface and then induced into economizer and air pre-heater, and then exhaust from chimney.

This series of boiler features compact structure, high heat efficiency, and low temperature in exhaustion; it is single storey arranged, the installation period is greatly shortened, the construction cost for boiler is significantly reduced; simple in operation, safe and reliable in operation, convenient in maintenance, and etc...



				TP-SZL Series Double-drum Vertical Type Assembling Water Tube Boiler					
		Item		★ TP-SZL6-1.25-WII TP-SZL6-1.6-WII TP-SZL6-2.45-WII	★ TP-SZL8-1.25-WII TP-SZL8-1.6-WII TP-SZL8-2.45-WII	★ TP-SZL10-1.25-WII TP-SZL10-1.6-WII TP-SZL10-2.45-WII	TP-SZL15-1.25-WII ★ TP-SZL15-1.6-WII TP-SZL15-2.45-WII	TP-SZL20-1.25-WII ★ TP-SZL20-1.6-WII TP-SZL20-2.45-WII	
	Rated	Evaporation Capac	ity(t/h)	6	8	10	15	20	
		Rated Pressure(Mpa	a)	1.25/1.6/2.45	1.25/1.6/2.45	1.25/1.6/2.45	1.25/1.6/2.45	1.25/1.6/2.45	
	Rate	d Steam Temperatur	re(°C)	194/205/225	194/205/225	194/205	194/205	194/205	
	Wate	r Supply Temperatu	re(℃)	105	105	105	105	105	
	Heating Surface	Body(1	m ²)	20(Radiation) 199.3(Convection)	20(Radiation) 202(Convection)	229.5(Radiation) 204.1(Convection)	24.6(Radiation) 315(Convection)	42.51(Radiation) 380(Convection)	
		Economizer(m ²)		199.3(Convection)	20(Radiation)	69.8	212	267.8	
		Air preheater		202(Convection)	29.5(Radiation)	88.7	224	342.1	
Furnace	Gra	te Effective Surface	(m ²)	204.1(Convection)	24.6(Radiation)	16.6	21.13	25.7	
		Designed C	oal Type	315(Convection)	42.51(Radiation)	WII	WII	WII	
	Suitable Fuel	Low heating Value(KCAL/kg)		380(Convection)	6071	6071	6071	6071	
	Max	timum shipping wei	ght(t)	23	25	27	30	32	
	Maximum shipping dimensions(m)			8.7 x 2.7 x 3.5	10.6 x 3.16 x 3.53	10.6 x 3.16 x 3.53	10.6 x 3.16 x 3.53	10.6 x 3.16 x 3.53	
	Boiler Assembled Dimensions			9.5 x 3.6 x 5.9	10.95 x 4 x 5.95	10.95 x 4 x 5.95	11.8 x 5.63 x 6.2	13.5 x 6.6 x 9.8	
		Air volume(m ³ /h)		18000	30000	30000	33318-62850	36762-69347	
	LD For	Air Pressu	ure(Pa)	Air volume(m3/h)	4120	4120	3752-4005	2824-3874	
	I.D Fan	Rotational Speed(r/min)		1750	1750	1750	1750	1750	
		★ Motor Effic	ciency (kw)	37	55	55	75	110	
		Air volume	e(m ³ /h)	8294-10171	8327-14156	8327-14156	21362-25435	19888-28078	
	E D Fan	Air Pressu	ure(Pa)	4101-4453	3907-3975	3907-3975	3704-3812	4249-4917	
	1.01ai	Rotational Sp	eed(r/min)	3500	3500	3500	3500	3500	
		★ Motor Effic	ciency (kw)	22	37	22	37	75	
		Rotational Sp	eed(r/min)	2950	2900	2900	2900	2900	
	Feed Water Pump	Lift(r	n)	175	175	175	210	210	
Auxiliary		★ Motor Effic	eiency (kw)	7.5	15	15	30	30	
Machine		Mod	el	GL-16PW/ll	GL-16P/ll	GL-20PW/ll	GL-20PW/ll	GL-30P	
	Speed		Model	YCT132-4A	YCT132-4A	YCT132-4B	YCT132-4B	YCT160-4A	
	Governor	Motor	Power(kw)	1.1	1.1	1.5	1.5	2.2	
			Rotational Speed (r/min)	125-1250	125-1250	125-1250	125-1250	125-1250	
	Cinder		Power(kw)	1.5	1.5	1.5	2.2	2.2	
	Conveyor	Motor	Rotational Speed (r/min)	960	960	960	960	960	
	1	Dust Collector Mod	el	XTD-6	XTD-8	XTD-10	XTD-15	XTD-20	

TP-DZL Series Horizontal Quick-Installed Steam Boiler



INTRODUCTION TO SERIES OF TP-DZL BOILERS:

Series of TP-DZL quick fitting boiler is the horizontal tri-returning water and fire pipes chain grating boiler, which uses medium level quality soft coal. The boiler body is a single cylinder type, longitudinal arranged; there are left and right 2 rows of fire pipe bundles inside boiler cylinder to form convection heat receiving surfaces, the boiler cylinder and water cooling walls at both sides shape the furnace radiation heat receiving surfaces; the combustion equipment uses light chain grating; exit shop in whole machine & quick fitting type.

The electric control realizes free grating speeds, and achieves parameter alarm and inter-lock protection.

Features of this series of boiler: compact structure, small volume; convenient installation, cheap in fundamental construction; mechanized coal feeding and cinder removing: the output of the boiler is sufficient and has high efficiency. It is the well appreciated equipment for extensive steam supply equipment for medium and small enterprises and public heating.





\backslash				Water and Fire Tube Coal-fired Boiler Specification						
		Item		★ TP-DZL1-0.7- AII TP-DZL1-1.0- AII	★ TP-DZL2-1.0- AII TP-DZL2-1.25- AII TP-DZL2-1.57- AII TP-DZL2-2.45-AII	★ TP-DZL4-1.25-AII TP-DZL4-1.57-AII TP-DZL4-2.45-AII	★ TP-DZL6-1.25-AII TP-DZL6-1.6-AII	★ TP-DZL10-1.25-AII TP-DZL10-1.6-AII		
	Rated Evaj	poration Capac	tity (t/h)	1	2	4	6	10		
	Rate	d Pressure (Mp	oa)	0.7/1.0	1.0/1.25/1.57/2.45	1.25/1.57/2.45	1.25/1.6	1.25/1.6		
	Rated Ste	am Temperatu	re (°C)	170/184	184/194/204/225	194/204/225	194/205	194/205		
	Water Sup	oply Temperatu	ire (°C)	20/95	20/95	20/95	20/115	60/60		
	Heating	Body	(m ²)	32.4	59.3	89.16	126.7	251		
	Surface	Economizer (m ²)		12.54	28.16	38.5	78.5	174.4		
Eurocco	Grate Ef	fective Surface	e (m ²)	2.05	3.7	5.3	8.32	12		
Fuinace	Suitable Eucl	Designed	Coal Type	AII	AII	AII	AII	AII		
	Suitable Fuel	Low heat (Kca	ing Value l/kg)	5019	5019	5019	5019	5019		
	Fuel C	Consumption (k	g/h)	151	302	600	888	1447		
	Thern	nal Efficiency	(%)	79	79	79	79	79		
	Maximum shipping weight (t)			13	25	26.7	36.1	25		
	Maximum shipping dimensions (m)			5.2 x 2.0 x 2.9	5640 x 2540 x 3467	6.3 x 2.65 x 3.55	7.32 x 3.25 x 3.54	7.2 x 3.3 x 3.53		
	Boiler Assembled Dimensions (Length x Width x Height) (m)			6 x 3.5 x 4.1	6 x 3.85 x 5	7.2 x 4 x 4.9	8 x 5.1 x 4.62	8.2 x 3.6 x 6.5		
		Air volume (m ³ /h)		6610-7902	5000-9000	11000-14000	12000-24000	30000		
	IDE	Air Pres	sure (Pa)	2089-2138	3340-3100	3920-3930	3980-4245	4030-4120		
	I.D Fan	Rotational Speed (r/min)		1750	1750	1750	1750	1750		
		★ Motor Efficiency (kw)		7.5	11	22	37	55		
		Air volume (m ³ /h)		1630-3600	2664-5268	3742-7226	12000-7000	15012.2		
	EDE	Air Pressure (Pa)		650-1040	650-1040	986-1578	1275-2036	1442-2109		
	F.D Fan	Rotation (r/r	al Speed nin)	3500	3500	3500	3500	3500		
		★ Motor Eff	iciency (kw)	2.2	3	5.5	7.5	15		
Auxiliary Machine		Rotation (r/n	al Speed nin)	2900/3500	2900/3500	2900/3500	2900/3500	2900/3500		
	Feed Water Pump	Lift	(m)	105	115	161	175	175		
		★ Moto (k	r Efficiency w)	2.2	7.5	7.5	7.5	15		
		Mc	del	EW-766A	GL-5P	GL-5P	GL-10P	GL-16P		
	Governor	Motor	Power	0.55/1.1	0.55	0.55	0.75	1.1		
		Wotor	Rotational Speed	690~1380	125~1250	125~1250	125~1250	1440		
	Cinder	Motor	Power	1.1	1.1	1.1	1.5	1.5		
	Conveyor	MOIOI	Rotational Speed	960	960	960	960	960		
	Dust	Collector Mod	lel	XTD-1	XTD-2	XTD-4	XTD-6	XTD-10		

TP-DZL Series Horizontal Quick- Installed Hot Water Boiler



INTRODUCTION TO SERIES OF TP-DZL BOILERS

Series of TP-DZL quick fitting boiler is the horizontal tri-returning water and fire pipes chain grating boiler, which uses medium level quality soft coal. The boiler body is a single cylinder type, longitudinal arranged; there are left and right 2 rows of fire pipe bundles inside boiler cylinder to form convection heat receiving surfaces, the boiler cylinder and water cooling walls at both sides shape the furnace radiation heat receiving surfaces; the combustion equipment uses light chain grating; exit shop in whole machine & quick fitting type. The electric control realizes free grating speeds, and achieves parameter alarm and inter-lock protection.

Features of this series of boiler: compact structure, small volume; convenient installation, cheap in fundamental construction; mechanized coal feeding and cinder removing: the output of the boiler is sufficient and has high efficiency. It is the well appreciated equipment for extensive steam supply equipment for medium and small enterprises and public heating.



\setminus	Item				Water and Fire Tube Coal-fired Boiler Specification						
				TP-DZL0.7-0.7/95/70- All	TP-DZL1.4-0.7/95/70-All	TP-DZL2.8-0.7/95/70-All	TP-DZL4.2-1.0/115/70-All	TP-DZL7-1.0/115/70-All			
	Rated Evapo	oration Capa	acity (MW)	0.7	1.4	2.8	4.2	7			
	Rated	l Pressure (!	Mpa)	0.7	0.7	0.7	1.0	1.0			
	Output Wa	iter Temper	ature (°C)	95	95	95	115	115			
	Return Wa	ter Tempera	ature (℃)	70	70	70	70	70			
	Heating	Bod	y (m ²)	32.4	59.3	89.16	126.7	251			
	Surface	Econor	nizer (m ²)	12.54	28.16	38.5	78.5	174.4			
Eurmana	Grate Eff	ective Surfa	ace (m ²)	2.05	3.7	5.3	8.32	12			
Furnace	Suitable Eucl	Designed	d Coal Type	All	All	All	All	All			
	Suitable Fuel	Low hea (KC	ating Value AL/kg)	5019	5019	5019	5019	5019			
	Fuel Co	onsumption	(kg/h)	151	302	600	888	1447			
	Thermal Efficiency (%)			79	79	79	79	79			
	Maximum shipping weight (t)			13	25	26.7	36.1	25			
	Maximum shipping dimensions (m)			5.2 x 2.0 x 2.9	5640 x 2540 x 3467	6.3 x 2.65 x 3.55	7.32 x 3.25 x 3.54	7.2 x 3.3 x 3.53			
	Boiler Ass (Length x	sembled Di Width x He	mensions eight) (m)	6 x 3.5 x 4.1	6 x 3.85 x 5	7.2 x 4 x 4.9	8 x 5.1 x 4.62	8.2 x 3.6 x 6.5			
		Air volume (m ³ /h)		6610-7902	5000-9000	11000-14000	12000-24000	30000			
	I D Fan	Air Pre	ssure (Pa)	2089-2138	3340-3100	3920-3930	3980-4245	4030-4120			
	1.D T un	Rotational Speed (r/min)		1750	1750	1750	1750	1750			
		★ Motor Efficiency (kw)		7.5	11	22	37	55			
		Air volume (m ³ /h)		1630-3600	2664-5268	3742-7226	12000-7000	15012.2			
	F D Fan	Air Pressure (Pa)		650-1040	650-1040	986-1578	1275-2036	1442-2109			
	1.D Tun	Rotatio (r	onal Speed (min)	3500	3500	3500	3500	3500			
		★ Motor (r Efficiency kw)	2.2	3	5.5	7.5	15			
Auxiliary Machine		Rotatio (r	nal Speed (min)	3500	3500	3500	3500	3500			
	Feed Water Pump	Li	ft (m)	105	115	161	175	175			
		★ Motor (r Efficiency kw)	2.2	7.5	7.5	7.5	15			
		М	lodel	EW-766A	GL-5P	GL-5P	GL-10P	GL-16P			
	Speed Governor	Motor	Power	0.55/1.1	0.55	0.55	0.75	1.1			
			Rotational Speed	690~1380	125~1250	125~1250	125~1250	1440			
	Cinder	Motor	Power	1.1	1.1	1.1	1.5	1.5			
	Conveyor		Rotational Speed	960	960	960	960	960			
	Dust Collector Model			XTD-1	XTD-2	XTD-4	XTD-6	XTD-10			

TP-DZG/TP-DZL Series Anthracite Quick Installed Steam Boiler



Introduction to Anthracite Coal Series of TP-DZG Boiler:

Series of TP-DZG type is the horizontal tri-backhaul water fire pipes fixed grating quick installed boiler. The vaporizing capacity of this series of boilers is 0.5-4t/h the working pressure is 0.7-1.25Mpa. The boiler body frame is the single boiler cylinder longitudinal type, smog and fire pipes are arranged in inner furnace; left and right sides of the furnace are equipped with water cooling wall pipes; the less leaking behive grating is used: manual coal feeding.

Mechanical ventilation, and equipped with appropriate rear arch, duster, high and low water level alarm, electric control cabinet and etc. The 4t/h boiler is equipped with air pre-heater.

Introduction to Anthracite Coal Series of TP-DZL Boiler:

Series of TP-DZL type is the horizontal tri-backhaul water fire pipes chain grating quick installed boiler, with the evaporation capacity of 2t/h, 4t/h and working pressure of 1.0-2.45Mpa. The boiler body furnace is single cylinder longitudinal type, the length of boiler cylinder and chain grating are extended; appropriate rear arch is arranged to let coverage reach to 70%; there is air pre-heater at the rear part; the combustion device uses center flexible grating, equipped with bigger blower and induced draft fan. This series of boiler features is compact in structure.

New technologies of arch pipe and shaped flue and helix smoke pipe are high in heat efficiency, safe and reliable in operation, convenient in transportation and installation.



\setminus			Specification of Anthracite Quick Installed Water and Fire Pipe Boiler				
		Item		★ TP-DZG2-1.25-W ll	★ TP-DZG4-1.25-Wll	★ TP-DZL2-1.0-WII ★ TP-DZL2-1.25-WII	★ TP-DZL4-1.25-WII ★ TP-DZL4-1.6-WII
	Rated E	vaporation Capacity (t	h)	2	4	2	4
	R	Rated Pressure(Mpa)		1.25	1.25	1.0/1.25	1.25/1.6
	Rated Steam Temperature(°C)		194	194	184/194	184/194	
	Water Supply Temperature(°C)		20	20	20	20	
		Body(r	m ²)	58.72	133.5	57	132.6
	Heating Surface	Economizer(m ²)		1	1	/	/
		Air preheater		1	16.3	15.92	47
	Grate	Effective Surface(m ²)		2.52	6.67	4.7	6.67
Furnace		Designed Co	oal Type	WII	WII	WII	WII
	Suitable Fuel	Low heating Value(Kcal/kg)		6072	6072	6072	6072
	Maximum shipping weight(t)		20	31	25	29.2	
	Maximum shipping dimensions(m)			4.72 x 2.3 x 3.3	6.46 x 2.65 x 3.55	6.4 x 2.5 x 3.4	7.3 x 2.65 x 3.56
	Boiler Assembled Dimensions (Length x Width x Height) (m)		4.72 x 3.1 x 4.81	6.46 x 3.2 x 5.18	6.4 x 3.1 x 4.82	7.3 x 3.2 x 5.05	
		Air volume	e(m ³ /h)	7000	13000	5000-9000	13000
	I D Fan	Air Pressu	rre(Pa)	3340	3960	3340	3960
	1.19 1 un	Rotational Sp	eed(r/min)	1750	1750	1750	1750
		★ Motor Efficiency(kw)		11	22	11	22
		Air volume	e(m ³ /h)	3297-4616	4695-7511	3297-4616	4695-7511
	F D Fan	Air Pressure(Pa)		3620-3647	4511-4597	3620-3647	4551-4597
	112 1 44	Rotational Sp	eed(r/min)	3500	3500	3500	3500
		★ Motor Effic	eiency(kw)	7.5	15	7.5	15
		Rotational Sp	eed(r/min)	3500	3500	3500	3500
	Feed Water Pump	Lift(n	n)	161	161	161	161
Auxiliary	r i i i i i i i i i i i i i i i i i i i	★ Motor Effic	eiency(kw)	7.5	7.5	7.5	7.5
Machine		Flow(m	1 ³ /h)	6	6	6	6
		Mode	el			GL-5P	GL-5PA
	Speed Governor	Motor	Model			YCT100-4A	YCT100-4A
			Power(kw)			0.55	0.55
	Cinder Conveyor	Power(kw)	Motor			1.1	1.1
		Rotational Speed (r/min)				960	960
	D	ast Collector Model				XTD-2	XTD-4



TP-SHX Series Circular Flow Bed Steam Boiler



INTRODUCTION TO SERIES OF TP-SHX CIRCULAR FLOW BED PRODUCT:

TP-SHX CFB boiler: evaporation capacity 10-35t, with steam pressure of 1.25-2.5MPa and the steam temperature is saturated steam and superheated steam.

CFB technology, it is a matured, new type, high efficient technology, and low in pollution and has a lot of merits, which cannot be found in other combustion method.

1. CFB belongs to mw temperature combustion; therefore, the exhaustion of nitrogen oxide is far more fewer than coal powder furnace, only 200 ppm approximately; at the same time, at is feasible to actualize direct desulfurizing during combustion, The efficiency of desulfurization is high and the equipment is simple and cheap as well. The initial investment for desulfurization and performance cost is far lower than PC+FCD.

2.Extensive fuel adaptability and is high in combustion efficiency, especially suitable for low calorie inferior coal.

3. The exhausted cinder has better activeness, liable to actualize integrated utilization and free from pollution.

4. Wide range for load adjustment, low load may lower to 30% approximately of the rated load.

5.Current requirement for environment protection is becoming stricter, and electricity load adjustment for power plant becomes larger, and there are more of varieties of coal supply, direct combustion of raw coal takes higher ratio and national economy develops unevenly in different level, the contradiction between environment protection and coal burning are concerned by a lot of people, CFB boiler has become a first choice for high efficiency and low on pollution it is a new combustion technology.



\setminus					Circular Flow Bed Ste	am Boiler Specification		
]	ltem	★ TP-SHX10-1.25-AII TP-SHX10-1.6-AII TP-SHX10-2.5-AII	★ TP-SHX15-1.25-AII TP-SHX15-1.6-AII TP-SHX15-2.5-AII	★ TP-SHX20-1.25-AII TP-SHX20-1.6-AII TP-SHX20-2.5-AII	★ TP-SHX25-1.25-AII TP-SHX25-1.6-AII TP-SHX25-2.5-AII	★ TP-SHX30-1.25-AII TP-SHX30-1.6-AII TP-SHX30-2.5-AII	★ TP-SHX35-1.25-AII TP-SHX35-1.6-AII TP-SHX35-2.5-AII
	Rated Evapora	tion Capacity (t/h)	10	15	20	25	30	35
	Rated Pr	essure(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
	Rated Steam	Temperature (℃)	194/204/225	194/204/225	194/204/225	194/204/225	194/204/225	194/204/225
	Water Supply	Temperature (°C)	105	105	105	105	105	105
		Radiation(m ²)	58	114	121.6	179	227	224
	Hardin Conferen	Convection(m ²)	185	248	354.8	442.4	495	609
	Treating Surface	Economizer(m ²)	247.8	476	446.4	535.7	740	470
		Air Preheater (m ²)	/	/	280	357.3	404	367
Furnace	Fluidized bec	d dimension(m ²)	1.6	2.24	2.78	3.25	4.75	5.3
	Coal consumption		1952	3020	4217	5350	6325	6955
	(Standard coal)(Kg/h)		89	89	89	89	89	89
	Designed thermal efficiency(%)		160	165	150	150	150	150
	Smoke exhaus	t temperature(°C)	1.56	2.51/2.63/4.5	3.6/6.28	4.1/7.1	4.2	4.9
		Air volume(m ³ /h)	8144-9988	14643	15826	26348	30744	32294
	Transportation	Air Pressure(Pa)	11340-10426	12078	11776	12080	12954	12797
	part (t)	Rotational Speed (r/min)	2900	2900	2900	2900	1450	1450
		★ Motor Efficiency (kw)	55	75	110	110	200	220
		Air volume(m ³ /h)	5712-10562	9233	9233	19630	22206	22206
	Secondary Draft	Air Pressure(Pa)	1673-2554	4297	4297	3346	4179	4179
	Fan	Rotational Speed (r/min)	2900	1450	1450	1450	1450	1450
		★ Motor Efficiency (kw)	7.5	22	22	30	45	90
		Air volume(m ³ /h)	32000	37485	62888-73368	70253	78800	84858
	105	Air Pressure(Pa)	4060	4994	3695-3515	4989	4515	4269
Auxiliary	I.D Fan	Rotational Speed (r/min)	1750	1750	1750	1750	1750	1750
Machine		★ Motor Efficiency (kw)	75	75	110	132	160	220
		Flow(m ³ /h)	12.5	15	25	30	46	46
	Food Water Pump	Lift(m)	175	204	210	192.5	180	180
	rece water ruinp	Power(kw)	15	37	30	30	37	37
		Rotational Speed (r/min)	2950	2900	2950	2950	/	2950
	Cool Facility	Model	LS-10	LS-10	LS-20	LS-20	LS-20	LS-20
	Coal Feeder	Motor Efficiency (kw)	3	3	3	3	3	3

TP-SHX Series Circular Flow Bed Hot Water Boiler



INTRODUCTION TO SERIES OF TP-SHX CIRCULAR FLOW BED PRODUCT:

Hot water boiler $14\sim 29$ MW, supplies 130 °C /150 °C hot water. Under pressure of 1.0~1 .6MPa; the returning water temperature is 70°C /90°C.

CFB technology, it is a matured, new type, high efficient technology, and low in pollution and has a lot of merits, which cannot be found in other combustion method.

1. CFB belongs to mw temperature combustion; therefore, the exhaustion of nitrogen oxide is far more fewer than coal powder furnace, only 200 ppm approximately; at the same time, at is feasible to actualize direct desulfurizing during combustion, The efficiency of desulfurization is high and the equipment is simple and cheap as well. The initial investment for desulfurization and performance cost is far lower than PC+FCD.

2. Extensive fuel adaptability and is high in combustion efficiency, especially suitable for low calorie inferior coal.

3. The exhausted cinder has better activeness, liable to actualize integrated utilization and free

from pollution.

4. Wide range for load adjustment, low load may lower to 30% approximately of the rated load.

5. Current requirement for environment protection is becoming stricter, and electricity load adjustment for power plant becomes larger, and there are more of varieties of coal supply, direct combustion of raw coal takes higher ratio and national economy develops unevenly in different level, the contradiction between environment protection and coal burning are concerned by a lot of people, CFB boiler has become a first choice for high efficiency and low on pollution it is a new combustion technology.





\setminus				Circular Flow Bed Hot Water Boiler Specification					
		Item	TP-SHX7-1.0/115/70-AII	TP-SHX10.5-1.0/115/70-AII	TP-SHX14-1.0/115/70-AII	TP-SHX17.5-1.0/115/70-AII	TP-SHX21-1.25/115/70-AII		
	Rated Evaporat	tion Capacity (MW)	7	10.5	14	17.5	21		
	Rated Pr	ressure(Mpa)	1.0	1.0	1.0	1.0	1.25		
	Output Water	Temperature(°C)	115	115	115	115	115		
	Water Supply	Temperature (°C)	70	70	70	70	70		
		Radiation(m ²)	58	114	121.6	179	227		
	Harris Carlos	Convection(m ²)	185	248	354.8	442.4	495		
	neating Surface	Economizer(m ²)	247.8	476	446.4	535.7	740		
		Air Preheater (m ²)	/	/	280	357.3	404		
Furnace	Fluidized be	d dimension(m ²)	1.6	2.24	2.78	3.25	4.75		
	Coal co	onsumption	1952	3020	4217	5350	6325		
	(Standard coal)(Kg/h)		89	89	89	89	89		
	Designed the	mal efficiency(%)	160	165	150	150	150		
	Smoke exhaust temperature(°C)		1.56	2.63	3.6	4.1	4.2		
		Air volume(m ³ /h)	8144-9988	14643	15826	26348	30744		
	Transportation	Air Pressure(Pa)	11340-10426	12078	11776	12080	12954		
	part (t)	Rotational Speed (r/min)	2900	2900	2900	2900	1450		
		★ Motor Efficiency (kw)	55	75	110	110	200		
		Air volume(m ³ /h)	5712-10562	9233	9233	19630	22206		
	Secondary Draft	Air Pressure(Pa)	1673-2554	4297	4297	3346	4179		
	Fan	Rotational Speed (r/min)	2900	1450	1450	1450	1450		
		★ Motor Efficiency (kw)	7.5	22	22	30	45		
		Air volume(m ³ /h)	32000	37485	62888-73368	70253	78800		
	IDE	Air Pressure(Pa)	4060	4994	3695-3515	4989	4515		
Auxiliary	I.D Fan	Rotational Speed (r/min)	1750	1750	1750	1750	1750		
Machine		★ Motor Efficiency (kw)	75	75	110	132	160		
		Flow(m ³ /h)	12.5	15	25	30	46		
	Feed Water	Lift(m)	175	204	210	192.5	180		
	Pump	Power(kw)	15	37	30	30	37		
		Rotational Speed (r/min)	2950	2900	2950	2950	/		
	Cool Freder	Model	LS-10	LS-10	LS-20	LS-20	LS-20		
	Coal Feeder	Motor Efficiency (kw)	3	3	3	3	3		

Boiler of Power Station



Boiler of Power Station

Boiler of Power Station:

Our company has accumulated rich experience in design and manufacturing boilers and formed a powerful production capacity. The specification for design and manufacturing includes 20t/h, 25t/h, 35t/h, 40t/h, 45t/h, 60t/h, 75t/h, 130t/h, 220t/h, and 300t/h. Rated parameters includes low voltage, medium voltage, medium-high voltage, which has formed systematic mode.

1 · Circulation Fluidized Bed Power Station Boiler

	Boiler Specifications and Technical Requirements									
Item	★ ZZ35/3.82-M1	★ ZZ75/5.4-M1	★ ZZ130/9.8-M1	★ ZZ220/9.8-M1						
Boiler Rated Evaporation Capacity(t/h)	35	75	130	220						
Steam outlet pressure (Mpa)	3.82	5.4	9.8	9.8						
Steam Outlet Temperature(°C)	450	485	540	540						
F.W Temperature (°C)	150	150	215	215						
Smoke exhaust temperature(°C)	150	150	140	136						
Primary air temperature (°C)	145	145	150	207						
Secondary air temperature (°C)	180	180	150	220						
Design efficiency (%)	90	90	90.5	91						
Actual Coal Consumption (kg/h)	10851	10851	20536	31830						
Coal granularity scope (mm)	0-8	0-8	0-8	0-8						
Desulfurization limestone granularity (mm)	0-1.5	0-1.5	0-1.5	0-1.5						
Desulfurization rate (Ca/S=2.5h)	90	90	90	90						
Applicable seismic intensity	≦7∘	≦7∘	≦7∘	<u>≦</u> 7 ∘						
Design Fuel	WII, AII	WII, AII	WII, AII	WII, AII						
Hydro pressure test (Mpa)	5.4	7.6	13.6	13.6						
Design ambient temperature (°C)	20	20	20	20						
Design ambient relative humidity (%)	70	70	70	70						

2 · Layer Combustion Power Station Boiler

	Boiler Specifications and Technical Requirements									
Item	★ ZZ20-3.82/450-AII	★ ZZ35-3.82/450-AII	★ ZZ40-3.82/450-All	★ ZZ50-3.82/450-All	★ ZZ60-3.82/450-All	★ ZZ75-3.82/450-All				
Boiler Rated Evaporation Capacity(t/h)	20	35	40	50	60	75				
Steam Outlet Pressure (Mpa)	3.82	3.82	3.82	3.82	3.82	3.82				
Steam Outlet Temperature (°C)	450	450	450	450	450	450				
F.W Temperature (°C)	104	104	105	105	105	105				
Smoke exhaust temperature (°C)	166	153	145	150	150	145				
Design efficiency (%)	80.6	81.4	81.5	80.1	82	81.6				
Fuel Consumption (kg/h)	3523	5957	6455	7491	9332.6	12088				
Range of fuel granularity	0-3mm<30% 6-19mm>60%	0-3mm counted as 30% Largest granule ≦40%	0-3mm counted as 30% Largest granule ≦40%	Less than 6mm<60% Largest granule ≦40%	0-3mm<30% Largest granule ≤ 40mm	0-3mm counted as 30% Largest granule ≤ 40%				
Applicable seismic intensity	≦ 7 °	≦ 7 °	≦ 7 °	≦ 8 °	≦ 7 °	≦ 7 °				
Radiation heating surface area (m ²)	95.7	154.3	154.3	182.6	289	312.3				
Superheater heating surface area (m ²)	230.9	312.5	312.5	388.9	616	657				
Economizer heating surface area (m ²)	327.7	624.3	624.3	766.1	1119	1493.6				
Air preheater heating surface (m^2)	365.4	530.8	530.8	733.5	1036	1145				
Hot air temperature	106	113	113	126	126	108				
Grate effective area (m ²)	13.6	35.9	35.9	44.1	59.6	68.2				
Design Fuel	AII	AII	AII	AII	AII	AII				
Hydro pressure test (Mpa)	5.30	5.30	5.30	5.30	5.30	5.30				

TP-SHL Bulk Series Steam Boiler



TP-SHL Bulk Series Steam Boiler INTRODUCTION TO SERIES OF TP-SHL BOILERS:

Series of TP-SHL is the bulk industrial boiler with dual cylinders and transverse arranged, as well as the natural cycling coal combustion water pipe boiler. The transverse upper and lower boiler cylinders and water cooling pipe walls together form the silo type furnace together with convection pipe bundle and collection chest to form the boiler body frame.

At the rear part, there is a coal saving air pre-heater; and if necessary superheater is also available to set up in inner furnace. The combustion equipment is squama grating with free timing control. Exit shop in bulk type for site assembly and construction. The smog flow is multi-backhaul type.

The boiler has the following characteristics: capable of over duty. It can rise temperature quickly, high in heat efficiency, less land needed and leak-free. The squama grating is enhancing the reliability and performance of the boiler, it is

suitable varieties of coals, the furnace arch and wall can be built in casting way and it is good in block out performance.

It features in sufficient output and high efficiency. Excellent adaptability for varieties of coal, safe and reliable, good in duster and de-smog and etc. It is extensively applied in field of public living heating. With greater ignition conditions, environment protection, energy saves, high efficiency in combustion, high extent in automation, stable in performance safe and reliable, and has long working life.



\land				Bulk Series Water Tube	Steam Boiler Specification	
		Item	★ TP-SHL10-1.25-AII TP-SHL10-2.45-AII	★ TP-SHL20-1.6-AII TP-SHL20-2.5-AII TP-SHL20-2.5/400-AII	★ TP-SHL30-1.25-AII	★ TP-SHL35-1.6-AII TP-SHL35-2.5-AII TP-SHL35-2.5/400-AII
	Rated Eva	ooration Capacity (t/h)	10	20	30	35
	Rate	ed Pressure	1.25/2.45	1.6/2.5	1.25	1.6/2.5
	Rated Steam	n Temperature(°C)	194/225	204/225/400	194	225/205/400
	Water Suppl	y Temperature(°C)	105	105	105	105
	Heating	Body (m ²)	Radiation57.5	Radiation97.5	Radiation80.7	Radiation131.7
	Surface	Economizer (m ²) / Air Preheater	Convection237.3	Convection146	Convection315	Convection388.5
	Grate Effec	ctive Surface (m ²)	12.2	23.2	31	35.12
Furnace	Switchle Evel	Designed Coal Type	AII	AII	AII	AII
	Sunable Fuel	Low heating Value (KCAL/kg)	5019	5019	5019	5019
	Thermal Efficiency (%)		81	81.5	82	82
	Fuel Consumption (kg/h)		1445	2870	4340	5016
	Maximum shipping dimensions(m)		5.5 x 1.5 x 1.6	6.1 x 1.29 x 1.06	5.3 x 4 x 4.2	7.6 x 1.3 x 1.04
	Maximum shipping weight(t)		3.2	7.3	10.7	9.4
	Overall dimension of boiler assembled (Length x Width x Height) (m)		11.9 x 7.0 x 9.8	14.3 x 8.8 x 12.5	12 x 6 x 7.5	15.35 x 8.88 x 12.5
	I.D Fan	Air volume (Qm ³ /h) Air Pressure (Pa)	30000/4030-4120	36762-69347/2824-3874	102412-121272/2204-2843	86586-109550/3968-4020
		★ Power (kw)	55	110	132	220
	F.D Fan	Air volume (Qm ³ /h) Air Pressure (Pa)	15012.2/2241.6	35052-44128/1775-2440	31554-60533/2194-31554	53124-80570/2659-3943
		★ Power (kw)	15	37	55	90
	Electric Water	Flow(m ³)/Lift(m)	12.5/175	25/210	30/166.5	46/200
Asseiliant	Pump	★ Motor Efficiency (kw)	15	30	37	45
Machine	Steam Pump	Model/Parameter	QB-5	QB-7	QB-9	QB-9
	Furnace water supply pump	★ Motor Efficiency (kw)	5.5Kw	5.5Kw	5.5Kw	5.5Kw
	Speed	Model/Parameter	GL-16P	GL-20P	GL-30P	GL-40P
	Governor	Model	1.1/125-1250	1.5/125-1250	2.2/125-1250	/
	Cinder	Model	Disc-type or Martine Type	Disc-type or Martine Type	Disc-type or Martine Type	Disc-type or Martine Type
	Conveyor	★ Motor Efficiency (kw)	1.5/2.2	1.5/2.2	1.1/2.2	1.1/2.2
	Dust Collector	Model	XTD-10 Or Water film	XTD-20 Or Water film	XTD-30 Or Water film	Water film

TP-SHL Bulk Series Hot Water Boiler



TP-SHL Bulk Series Hot Water Boiler INTRODUCTION TO SERIES OF TP-SHL BOILERS:

Series of TP-SHL is the bulk industrial boiler with dual cylinders and transverse arranged, as well as the natural cycling coal combustion water pipe boiler. The transverse upper and lower boiler cylinders and water cooling pipe walls together form the silo type furnace together with convection pipe bundle and collection chest to form the boiler body frame.

At the rear part, there is a coal saving air pre-heater; and if necessary superheater is also available to set up in inner furnace. The combustion equipment is squama grating with free timing control. Exit shop in bulk type for site assembly and construction. The smog flow is multi-backhaul type.

The boiler has the following characteristics: capable of over duty. It can rise temperature quickly, high in heat efficiency, less land needed

and leak-free. The squama grating is enhancing the reliability and performance of the boiler, it is suitable varieties of coals, the furnace arch and wall can be built in casting way and it is good in block out performance.

It features in sufficient output and high efficiency. Excellent adaptability for varieties of coal, safe and reliable, good in duster and de-smog and etc. It is extensively applied in field of public living heating. With greater ignition conditions, environment protection, energy saves, high efficiency in combustion, high extent in automation, stable in performance safe and reliable, and has long working life.



				Bulk Series Water Tube S	team Boiler Specification	
	1	item	TP-SHL7-1.0/115/70-AIII	TP-SHL14-1.0/95/70-AII TP-SHL14-1.25/130/70-AII	TP-SHL21-1.0/115/70-AII	TP-SHL29-1.25/130/70-AII
	Rated Evaporat	ion Capacity (MW)	7	14	21	29
	Rated	Pressure	1.0	1.0/1.25	1.0	1.25
	Hot Water 7	Femperture(°C)	115	115 95/130		130
	Return Water	Temperature(°C)	70	70	70	70
	Hasting Surface	Body (m ²)	Radiation57.5	Radiation97.5	Radiation97.5 Radiation80.7	
	Heating Surface	Economizer (m ²) / Air Preheater	Convection237.3	Convection146	Convection315	Convection388.5
Europe	Grate Effecti	we Surface (m ²)	12.2	23.2	31	35.12
Fumace	Suitabla Eucl	Designed Coal Type	AII	AII	AII	AII
	Suitable Fuel	Low heating Value (KCAL/kg)	5019	5019	5019	5019
	Thermal Efficiency (%)		81	81.5	82	82
	Fuel Consumption (kg/h)		1445	2870	4340	5016
	Maximum shipping dimensions (m)		5.5 x 1.5 x 1.6	6.1 x 1.29 x 1.06	5.3 x 4 x 4.2	7.6 x 1.3 x 1.04
	Maximum shipping weight (t)		3.2	7.3	10.7	9.4
	Overall dimension of boiler assembled (Length x Width x Height) (m)		11.9 x 7.0 x 9.8	14.3 x 8.8 x 12.5	12 x 6 x 7.5	15.35 x 8.88 x 12.5
	LD For	Air volume (Qm ³ /h) Air Pressure (Pa)	30000/4030-4120	36762-69347/2824-3874	102412-121272/2204-2843	86586-109550/3968-4020
	1.10 1 011	★ Power (kw)	55	110	132	220
	FD Fan	Air volume (Qm ³ /h) Air Pressure (Pa)	15012.2/2241.6	35052-44128/1775-2440	31554-60533/2194-31554	53124-80570/2659-3943
	1.010	★ Power (kw)	15	37	55	90
	Electric Water Pump	Flow (m ³) /Lift (m)	12.5/175	25/210	30/166.5	46/200
		★ Motor Efficiency (kw)	15	30	37	45
Auxiliary Machine	Steam Pump	Model/Parameter	QB-5	QB-7	QB-9	QB-9
	Furnace water supply pump	★ Motor Efficiency (kw)	5.5Kw	5.5Kw	5.5Kw	5.5Kw
	Speed Governor	Model/Parameter	GL-16P	GL-20P	GL-30P	GL-40P
	Speed Sovellion	Model	1.1/125-1250	1.5/125-1250	2.2/125-1250	1
	Cinder Conveyor	Model	Disc-type or Martine Type	Disc-type or Martine Type	Disc-type or Martine Type	Disc-type or Martine Type
	Cinder Conveyor	★ Motor Efficiency (kw)	1.5/2.2	1.5/2.2	1.1/2.2	1.1/2.2
	Dust Collector	Model	XTD-10 Or Water Film	XTD-20 Or Water Film	XTD-30 Or Water Film	Water Film

TP-DZL New Type Water Tube Boiler

Introduction of TP-DZL New Type Water Tube Boiler:

TP-DZL new type water tube boiler is integrating all advantages of other water and fire boilers in home and abroad. It is a new generation product and technological achievements of domestic colleges and professional pressure vessel research institutes. It features high technology content when comparing with current industrial boiler it has better burning and heat conducting efficiency. Water cycling is safer and more reliable and with enough output force. The output force and efficiency will not change in the boiler's lifetime. This boiler is environmental friendly and it can conserve a lot of energy and has great economic and social benefits.

Series TP-DZL New Type Water tube Boiler has the following eight advantages

1) Constant Force:

High efficiency heat conductive screw thread tube is used and the height of screw thread is guaranteed, so we are able to create $10\sim15\%$ more force than other boilers. The speed of fume is rational so the tubes are free of accumulated dust. The force of boiler and the heat efficiency will not reduce even we extend the operation time. It has an ideal constant force and efficiency. 2) The boiler outer size is largely reduced to save customer's investment:

High efficiency heat conductive screw thread tubes is used various capacity of hot water boiler with the output water temperature less than 150°C can save on tail heating surface, and the length of boiler can be reduced greatly.

The height of boiler is rather short compare with other boiler type with same capacity. It has the smallest outside dimension and the investment on boiler room will be reduced at least 1/3.

3) No need for special protection for power failure:

Due to mixed cycling is adopted for hot water type and the large volume of boiler, when the power fails there is no need to take special protection measures. Therefore damage of heating surface and media caused by vaporization can be prevented 4) High efficiency:

The main convection heating surface, the screw thread tubes is equipped in shell, so cool wind will not come into the side of the tubes. In addition the removal of tail heating surface will reduce the quantity of cool air along with less heat dissipation. As hot water type adopts mixed cycling, and economizer is not used the water resistance of boiler body is reduced, which is no more than 0.05MPa, the energy consumption of boiler also reduced largely.

The dropping value is obviously larger than the increasing value of fume resistance because of application of screw thread duct. The tail of boiler is set with casting air preheated, which not only increase the adaptability of different type of coal and will help with complete burning of coal, and also reduce the discharging temperature, the operation efficiency of boiler is rated 84%.

5) Quick temperature rising:

The total weight of boiler steel material, heat resistance and insulating materials are less than that other boilers, and high efficiency heat conductive screw thread tubes is equipped in shell, so the time required by temperature rising is greatly shortened, is 1/3 less comparing with other boilers.

6) Safe and reliable:

Adopting protruding panel plate structure with screw thread tube, the thermal pressure of tubes and panel plate is greatly reduced. Lower tank backwater spraying, brushing front edge of side wall, with high temperature plate these will help with prevention on water cooling wall cracking or high temperature plate breaking when used under normal conditions 7) The initial dust discharge is low:

Boiler rear part of hearth is set with dust separation steering chamber; and the volume of hearth is large, so the initial dust discharge of boiler is lower than the allowed value of standard.

8) Easy installation:

Installation duration and installation costs are 1/2 when comparing with other single drum water boiler. It can be put into operation at the same year of manufacturing

	T.		TP-DZL New Type Water	Tube Boiler Specification	
	Item	TP-DZL29-1.0/115/70-AII	TP-DZL46-1.25/130/70-AII	TP-DZL58-1.25/130/70-AII	TP-DZL70-1.6/150/90-AII
Rated Ev	aporation Capacity (MW)	29MW/h	46 MW/h	58 MW/h	70 MW/h
Ra	ted Pressure (MPa)	1.0	1.25	1.25	1.6
Output	Water temperature (°C)	115	130	130	150
Return	Water Temperature (°C)	70	70	70	90
Heating Surface	Body (m ²)	1006.6	1396	2103	2713
Grate	Effective Surface (m ²)	36	58	77	89
	Designed Coal Type	AII	AII	AII	AII
Suitable Fuel	Low heating Value (KCAL/kg)	4295	4295	4295	4295
Fuel	Consumption (Kg/h)	6890	10638	13785	16190
The	ermal Efficiency (%)	80	81	81	81.8
Maxin	num shipping weight (t)	20	29	31	31
Maximun	n shipping dimensions (m)	9568 x 2036 x 2568	9000 x 2440 x 3070	9620 x 2900 x 2440	9620 x 2900 x 3145
Max outside boiler (l	dimension after installation of Length xWidth x Height)	11177 x 6272 x 8656	1149 x 9330 x 1108	12440 x 10361 x 11080	13247 x 10991 x 12490
	Air volume(m ³ /h)	48083	94763	12920	141170
F D Fan	Air Pressure(Pa)	3018	2414	2595	2474
1.171 all	Rotational Speed(r/min)	3500	3500	3500	3500
	★ Power(kw)	55	90	132	132
	Air volume(m ³ /h)	83088	199800	233070	356000
I D Fan	Air Pressure(Pa)	2697	3100	3452	3079
1.12 1 all	Rotational Speed(r/min)	1750 r.p.m	1750 r.p.m	1750 r.p.m	1750 r.p.m
	★ Power(kw)	110kw	280kw	355kw	450kw
Speed	Model	ZJ40W-1	ZJ600W	ZJ80W	ZJ80W
Governor	Power (kw)	3kw	4kw	5.5kw	5.5kw



TP-WNS Series Boiler



Introduction to TP-WNS series:

TP-WNS is hull type horizontal tri -backhauling internal combustion boiler designed by our technical professionals by advanced technologies form home, abroad and combined with our Engineers practical experiences.

The boiler is fully automatic, the process is for the fuels to get atomized by burner, and form flames to fill the whole waveform furnace. Via furnace wall to transfer the radiant heat as this is the first backhauling.

The high temperature smog yields from combustion is concentrated in back combustion chamber and turns to the second backhauling.

After heat exchange by convection, the smog temperature gradually lowers and goes into the front smog chest, and turned into the third backhauling and then passes through rear smog chest to chimney and finally exhausts to the atmosphere.

This series of steam boilers has high efficiency, more economical on oil and gas to lower the operational cost, to reach the target of high performance and enhance the safety of the boiler. This product has passed the examination from the Industrial Boiler Research Institute and the environment protection test from Dust Equipment Inspection center under National Environment Protection Bureau and specialist's certification from Machinery Industry Bureau to ensure the

performance target reaches the design requirements and in line with the national standard and it is also unanimously believed WNS series has reached international standards.

This series of boiler is more human orientated, high in efficient, safer with automatic intelligent control, greater energy saving, environmental friendly, easy in maintenances and durable.

Sufficient room for steam storage ensures the boiler has high efficiency for producing larger thermal power and high quality quantitative steam.

Water cooling counter-wise room (Wet back type), 100%"Fire in water design, raises thermal efficiency, extending working life of the boiler.

Varies kinds of high quality accessories for boilers, to ensure boiler's normal operation.

★ Note: We can customize the boiler appearances according to customer's needs.

100 % Wave-type furnace with large space in combustion chamber to ensure the boiler has good thermal flexibility.

TP-WNS Advantages

Structure of the boiler:

1. TP-WNS boilers use horizontal tri-backhauling wet back structure with threaded smoke tube. Adopting wetback downstream design can prevent smoke box's temperature to be too high.

2. The furnace adopts the most advanced domestic structure---corrugated furnace, which can increase the heat transfer area and the stability of the furnace.

3. The smoke tube adopts high efficient heat transfer component—threaded smoke tube. It raises the heat transfer coefficient of the smoke tube. The volume of the boiler can be further decreased.

Advantages of Oil (Gas) Boilers:

1. Safe, Stable, Powerful

2. Environmental friendly

3. Automatic Operation

4. With compact structure the construction investment can be decreased.

5. With quick start the boiler can reach rated working condition in 20 minutes.

6. Combustion equipments are made out of imported materials with good quality and less maintenance is needed.

7. Insulating layer of 100mm is adopted. The exterior temperature won't be higher than 50°c. (National Standard).

Automatic controlling system and safety protection:

(1) Controlling system which includes alarm system and security protection system and they are interlocked installed. The boiler security protection system and controlling system can be obviously divided.

(2)The combustion control and safe operation are controlled by the sequencer it has the following 5 functions.

A. Front blowing and sweeping in the hearth.

- B. Automatic ignition program protection.
- C. Locking and protection program of operation completion.
- D. Fire extinction protection program
- E. Complete protection program.

All the control and security protection with various operation are all displayed on the electric control cabinet.

The main control contents:

(1) When the gas, water and electricity are under normal condition, the boiler system can start automatically. (2) When steam pressure is higher than set point. The boiler can stop automatically. (3) When the water level is lower than its safe level, the boiler can stop automatically and can sound an alarm. (4) When the gas pressure is lower than set value, the boiler can stop and sound an alarm. (5) The boiler can stop and sound an alarm when the combustion engine has malfunctions. (6) The main controlling signal is steam pressure.

Boiler and its combusting system:

The combustion system can be adjusted and its efficiency can be higher than 90%. (1) When the interlock system of exterior protection is working normally, the combustion engine can start automatically. The program controls normal combustion progresses of blowing, sweeping and automatic ignition. Igniter adopts high-pressure electric ignition measure. (2) When the ignition is successful, the flame detector can detect the flame. Signals can be converted through the detector and then sent to the controller. The controller controls the movements of the main electromagnetic valve to keep the ignition. When the flame extinguishes flame detector will lose signals and controller will send signals to shut main electromagnetic valve to cut off the electric supply.

(3) Steam boiler is installed with pressure eliminator, super high pressure protection and pressure proportional controller, the pressure eliminator controls the steam pressure to make sure the pressure is in a certain range. When the pressure eliminator has malfunctions and the pressure is higher than the set value super high pressure protection will start and the boiler will shut down and sound an alarm. The proportion controller controls the proportion of boiler pressure and fuel consumption. It can help to avoid fluctuation of the steam pressure. (4) WNS is installed with visual water level gauge with auto feed water controller and super low water level protection equipment to carry out four section of controlling. First section when boiler reaches a super low water pressure it will stop it and sound an alarm. Second section when the boiler reaches the set low water level pump will start operating and feed the water. Third section when the water level reached the set high water level the pump will stop operating. Fourth section when the water level is below safe water level or the water pump has malfunctions and can run normally the super low water level protection equipment will start automatically to stop the combustion engine and sound an alarm.

than a certain value, the pressure can be released to our set value. Safety valve is also installed on the main body of the boiler. When the steam pressure is higher than a certain value, the pressure can be released to our set value.

- (5) Blast-proof door is installed on the main body of the boiler. When the smoke pressure is higher

TP-WNS Series of Oil (Gas) Steam Boilers & Systems Diagram





Parameter of TP-WNS Series Steam Boiler:

Boiler Model		TP-WNS1-0.7-Y(Q) TP-WNS1-1.0-Y(Q)	TP-WNS1.5-1.0-Y(Q) TP-WNS1.5-1.25-Y(Q)	TP-WNS2-1.0-Y(Q) TP-WNS2-1.25-Y(Q)	TP-WNS3-1.0-Y(Q) TP-WNS3-1.25-Y(Q)	TP-WNS4-1.25-Y(Q) TP-WNS4-1.6-Y(Q)	TP-WNS5-1.25-Y(Q) TP-WNS5-1.6-Y(Q)		
Rated Evapora (t/l	tion Capacity 1)	1	1.5	2	3	4	5		
Rated steam pr	ressure (MPa)	0.7/10	1.0/1.25	1.0/1.25	1.0/1.25	1.25/1.6	1.25/1.6		
Steam Tempe	erature (°C)	170/184	184/194	184/194	184/194	194/204	194/204		
Water Supply Temperature (°C)		20	20	20	20	20	20		
Heating	Body	25	36	60.3	77	113.3	127.4		
Surface (m ²)	Economizer	8.15	8.15	11.45	17.4	17.37	29.6		
Thermal effi	ciency (%)	>90	>90	>90 >90.2 >90.1		>90.3	>90.3		
Fu	el	Light diesel oil, heavy oil, natural gas							
★ Motor Po	ower (KW)	3.6	4.8	7.0	10.5	13	16.5		
Fuel	Light Oil (kg/h)	66.5	99	133	196	266	332.5		
consumption	Natural Gas (Nm ³ /h)	75	112	150	225	300	375		
Maximum ship	ping weight (t)	4	4.5	8.5	8.9	13.3	14.3		
Maximum dimensio	shipping ons (m)	3.6 x 2.0 x 2.0	3.6 x 2.0 x 2.0	4.86 x 2.5 x 2.46	5.3 x 2.5 x 2.5	5.84 x 2.85 x 2.8	6.3 x 2.9 x 2.8		

Boiler Model		TP-WNS6-1.25-Y(Q) TP-WNS6-1.6- Y(Q)	TP-WNS8-1.25- Y(Q) TP-WNS8-1.6- Y(Q)	TP-WNS10-1.25- Y(Q) TP-WNS10-1.6- Y(Q)	TP-WNS15-1.25- Y(Q) TP-WNS15-1.6- Y(Q)	TP-WNS20-1.25- Y(Q) TP-WNS20-1.6- Y(Q)		
Rated Evapor	ation Capacity (t/h)	6	8	10	15	20		
Rated stean	n pressure (MPa)	1.25/1.6	1.25/1.6	1.25/1.6	1.25/1.6	1.25/1.6		
Steam Ter	nperature (°C)	194/204	194/204	194/204	194/204	194/204		
Water Supply Temperature (°C)		20	20	20	20	20		
Heating Surface	Body	181.17	190.77	232.16	346.2	467.6		
(m ²)	Economizer	29.6	33.55	33.55	42.55	238.6		
Thermal	efficiency (%)	>91.2	>91.6	>91.6	>91.8	>92		
	Fuel	Light diesel oil, heavy oil, natural gas						
★ Motor	Power (KW)	19.5	29.5	33	60	90.5		
Fuel	Light Oil (kg/h)	399	532	660	997	1204		
consumption	Natural Gas (Nm ³ /h)	450	600	750	1125	1418		
Maximum sl	hipping weight (t)	19.5	22.6	25.8	34.7	46		
Maximum ship	ping dimensions (m)	7.25 x 3.1 x 3.15	7.45 x 3.26 x 3.2	8.73 x 3.26 x 3.2	8.73 x 3.74 x 3.51	10.2 x 3.6 x 4.02		

Parameters of TP-WNS Series Hot Water Boiler:

Boiler Model		TP-WNS0.7-0.7/ 95/70-Y(Q)	TP-WNS1.4-0.7/ 95/70-Y(Q)	TP-WNS2.1-1.0/ 95/70-Y(Q)	TP-WNS2.8-0.7/ 95/70-Y(Q)	TP-WNS3.5-1.0/ 95/70-Y(Q)		
Rated Thermal	Power (MW)	0.7	1.4	2.1	2.8	3.5		
Outlet press	sure (MPa)	0.7	0.7	1.0	0.7	1.0		
Output Water Temperature (°C)		95	95	95	95	95		
Return Water Temperature (°C)		70	70	70	70	70		
Heating Surface(m ²)		26	44	77	99	127.4		
Thermal eff	iciency (%)	>90	>90	>90	>90	>90		
Suitabl	e Fuel	Light diesel oil, heavy oil, natural gas						
End and the	Light Oil (kg/h)	66	133	196	266	332.5		
ruer consumption	Natural Gas (Nm ³ /h)	77	154	231	308	385		
Maximum shi (t	pping weight	4	8.3	8.9	13.3	14.3		
Maximum shipp (m	n)	3.6 x 2.0 x 22.0	4.5 x 2.0 x 2.1	5.3 x 2.5 x 2.5	5.84 x 2.85 x 2.8	6.3 x 2.9 x 2.8		

Boiler Model		TP-WNS4.2-1.0/ 115/70-Y(Q)	TP-WNS5.6-1.0/ 115/70-Y(Q)	TP-WNS7-1.0/ 115/70-Y(Q)	TP-WNS10.5-1.0/ 115/70-Y(Q)	TP-WNS14-1.0/ 115/70-Y(Q)	
Rated Thermal	Power (MW)	4.2	5.6	7	10.5	14	
Outlet press	ure (MPa)	1.0	1.0	1.0	1.0	1.0	
Output Water Temperature (°C)		115	115	115	115	115	
Return Water Temperature (°C)		70	70	70	70	70	
Heating Surface(m ²)		144	187	266	366.5	488	
Thermal effi	ciency (%)	>90	>90	>90	>90	>90	
Suitabl	e fuel	Light diesel oil, heavy oil, natural gas					
Fuel computing	Light Oil (kg/h)	397	530	656	996	1327	
Fuel consumption	Natural Gas (Nm ³ /h)	460	613	768	1153	1537	
Maximum shipping weight (t)		19.5	22.6	25.8	33	46	
Maximum shippin	g dimensions (m)	7.25 x 3.1 x 3.15	7.45 x 2.0 x 2.1	8.73 x 3.26 x 3.2	8.73 x 3.26 x 3.51	10.2 x 3.6 x 4.02	

Ps. : 1. \star The final specifications are base on the quotation.

TP-SZS Series Oil Fuel/Gas Boiler



Introduction to Series of TP-SZS Boiler:

Series of TP-SZS Boiler is arranged in"D"type with quick fitting structure. The water-cooling wall uses close-row structure which ensures the boiler has high performance and is suitable for heat radiation exchange. The smoke will reach the rear part of the furnace and turn right to pass through over heater then it will go through convection pipe bundle for convection heat exchange, at final it will go backward to pass through fuel and coal saver then exhaust from chimney.

TP-SZS boiler features great heat efficiency, can rise temperature quickly, safe and reliable to operate, small in volume, light in weight, and short in installation period. It is equipped with coal saver, dual cylinder pipe structure to ensure quick pressure rising and it can combusts full automatically, it is stable and reliable in performance.



Parameter of TP-SZS Series Oil Fuel/Gas Steam Hot Water Boiler:

\setminus				Specification							
	Item		TP-SZS2-2.5-Y(Q)	TP-SZS4-2.5-Y(Q)	TP-SZS6-1.25-Y(Q) TP-SZS6-2.45-Y(Q) TP-SZS4.2-1.0/115/70/-Y(Q)	TP-SZS10-1.25-Y(Q) TP-SZS10-2.45-Y(Q) TP-SZS10-1.0/115/70-Y(Q)	TP-SZS15-1.25-Y(Q) TP-SZS15-2.45-Y(Q) TP-SZS10.5-1.0/115/70-Y(Q)				
	Rated Evapora Rated Evapora	Rated Evaporation Capacity (T/H) Rated Evaporation Capacity (MW)		2	4	6/4.2	10	15/10.5			
	Rated P	Rated Pressure (Map)		2.5	2.5 1.25/2.45/1.0		1.25/2.45/1.0	1.25/2.45/1.0			
	Steam Rated water	Femperature temperatur	e / re (℃)	226	225	225 194/225/115		194/225/115			
	Water Supj Return Wate	oly Tempera r Temperatu	ature / ure (℃)	20	20	20/70	105/70	105/70			
	Hardina Carlo	Body		33.51	100.65	139.2 163.2		258			
E	Heating Surface	Economizer		15	25.4	130.8	138	261.6			
Furnace	Suitable Fuel			Light Oil (Natural Gas)	Light Oil (Natural Gas)	Light Oil (Natural Gas)	Light Oil (Natural Gas)	Light Oil (Natural Gas)			
	Fuel	Light Oil		140	280	417	1675	1043			
	consumption	Natur	al Gas	172	344	483 806		1209			
	Thermal	efficiency	(%)	88	88	89	89	89			
	Maximum shipping weight (t)			20.352	25	26	26	34			
	Boiler Asser (Lx)	nbled Dimensions WxH) (m)		5.7 x 1.965 x 3.56	5.76 x 4.075 x 3.66	6.5 x 3.27 x 3.36	7.87 x 3.4 x 3.34	7.1 x 3.66 x 3.5			
		Air volume (m ³ /h)		6610-7920	9474	18000	31554	50356			
	I D Fan	Air Pressure (pa)		2089-2138	2452	3187	2041	3745			
	I.D Fall	Rotation (rp	aal Speed om)	2900	1800	1450	1450	1450			
		Motor	Power (kw)	7.5	11	30	45	75			
		Мо	odel	Burner Set	Burner Set	Burner Set	Burner Set	Burner Set			
Auxiliary Machine		Air volur	ne (m ³ /h)	/	/	/	1	/			
	F.D Fan	Air Pres	sure (pa)	/	/	1	1	/			
		Rotatior (rp	aal Speed om)	/	/	1	1	/			
		★ Motor (k	Efficiency w)	4.5	9.0	12	22	45			
	Feed Water	Lift	(m)	300	300	294	200	180			
	Pump	★ Motor Efficiency (kw)		15	15	15	15	30			

	Item		Specification							
			TP-SZS20-1.25-Y(Q) TP-SZS20-2.45-Y(Q) TP-SZS10.5-1.0/115/70-Y(Q)	TP-SZS21-1.25/130/70-Y(Q)	TP-SZS25-1.25-Y(Q) TP-SZS25-2.45-Y(Q)	TP-SZS29-1.25/130/70-Y(Q)	TP-SZS35-1.25-Y(Q) TP-SZS35-2.45-Y(Q)			
	Rated Evap	oration Capacity (T/H) tion Capacity (MW)	20/10.5	21	25	29	35			
	Rated Pr	ressure (Map)	1.25/2.45	1.25	1.25/2.45	1.25	1.25/2.45			
	Steam 7 Rated water	Temperature / temperature (°C)	194/225/115	130	194/225	130	194/225			
	Water Supply Temperature / Return Water Temperature (°C)		105	70	104	70	105			
	Heating Surface	Body	691	430		603				
Furnace	Freating Surface	Economizer	698	436		610.4				
Furnace	Suit	able Fuel	Light Oil (Natural Gas)	Light Oil (Natural Gas) Light Oil (Natural		Light Oil (Natural Gas)	Light Oil (Natural Gas)			
	Fuel	Light Oil	2834.2	1675		2345				
	consumption	Natural Gas	3208.5	1925		2695				
	Thermal efficiency (%)		89	92	91.16	92.51	90			
	Maximum s	hipping weight (t)	38.198	CFS 4.6	CFS 4.375	CFS 4.785	CFS 5			
	Boiler Asser (Lx)	nbled Dimensions WxH) (m)	7.54 x 3.71 x 3.48	9.1 x 3.8 x 3.84	9.083 x 3.71 x 3.84	13.052 x 6.9 x 7.26	13.6 x 8 x 7.2			
		Air volume (m ³ /h)	34993-74137	85692		110772				
	I.D Fan	Air Pressure (pa)	1618-1451	3323		2535				
		Rotational Speed (r pm)	1450	1450		1450				
		★ Motor Efficiency (kw)	90	110		132				
Auxiliary		Air volume (m ³ /h)	41040	/		1				
Machine	F.D Fan	Air Pressure (pa)	5000	/		1				
	1.2.1 m	Rotational Speed (r pm)	960	/		1				
		★ Motor Efficiency (kw)	55							
	Feed Water	Lift (m)	38	190		180				
	Pump	★ Motor Efficiency (kw)	11	30		37				

TP-YLL Series Coal Combustion Organic Heater Boiler



Coal Fired Organic Heat Carrier Heater Boiler Introduction :

This is a new type of thermal equipment, which uses coal as fuel; it takes heat conduction oil as circular media for heat supply. We use high temperature circular pump for heat conduction oil; the heat conduction oil shall return to the boiler for warm up after supplying to heat consumption equipment.

It has a lot of advantages such as can reach to high working temperature (300°C approximately) under normal pressure, can carry out stable heating, can precisely control working temperature, has higher heat efficiency in the system, does not require any water treatment equipment, convenient in performance and maintenance, safe, reliable and save energies.

This series of heat conduction furnace is compact in structure, elegant in appearance, great performance and easy in operation. It is extensively used in industries of textile, printing, chemical, plastic, paint and automobile, synthetic fiber, rubber, shipbuilding, food, and etc...



TP-YLL Series Coal Combustion Organic Heater Boiler Technical Parameter :

Standard Specification / Model		TP-YLL-1400MA(W)	TP-YLL-1800MA(W)	TP-YLL-2400MA(W)	TP-YLL-2800MA(W)	TP-YLL-3500MA(W)
Rated Evaporation Capacity (KW)		1400	1800	2400	2800	3500
Design temperature (≦°C)		300	300	300	300	350
Rated Press	ure (MPa)	0.6	0.6	0.7	0.7	1.0
Thermal effici	iency ($\geq \%$)	≥ 74	≥ 74	≧ 78	≥ 78	≥ 78
System installed capacity (KW)		55	63	76	85	100
Heating Surface (m ²)		84	90	100	108	111.5
Furnace oil volume (m ³)		1.81	2.38	2.6	2.8	3.1
Expansion	tank (m ³)	2.0	2.5	2.5	3.5	3.5
Oil storage	tank (m ³)	4.5	6.0	6.0	8.5	8.5
The maximum	Length (L)	5500	5500	6100	6100	6810
dimensions for transportation (mm)	Width (W)	2300	2600	2500	2500	2500
	Height (H)	3340	3700	3060	3600	3600
Maximum shipping weight (Kg)		19500	23000	26500	27500	29000

Standard Specification / Model		TP-YLL-4200 MA(W)	TP-YLL-4600 MA(W)	TP-YLL-5600 MA(W)	TP-YLL-7000 MA(W)	TP-YLL-8200 MA(W)	TP-YLL-9400 MA(W)	TP- YLL-10500 MA(W)	TP- YLL-12000 MA(W)	TP- YLL-14000 MA(W)
Rated Evaporation Capacity (KW)		4200	4600	5600	7000	8200	9400	10500	12000	14000
Design temperature (≦°C)		350	350	350	350	320	320	320	320	320
Rated Pressure (MPa)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Thermal efficiency ($\geq \%$)		≧ 78	≧ 78	≧ 78	≧ 79	≧ 79	≧ 79	≧ 79	≧ 79	≧ 79
System installed capacity (KW)		100	100	120	120	150	160	200	260	320
Heating Surface (m ²)		194	280	360	460	520	585	650	742	821
Furnace oil volume (m ³)		3	3.8	5.2	6.5	7.8	11.4	12.8	14.6	15.9
Expansion tanl	k (m ³)	5.0	5.0	5.0	6.0	6.0	8.0	8.0	10.0	10.0
Oil storage tan	k (m ³)	10	10	10	15	15	20	20	25	25
The maximum	Length (L)	7100	7800	8200	8840	9740	10400	10400	10400	10400
The maximum dimensions for transportation (mm)	Width (W)	2620	2620	3200	3200	3200	3380	3380	3560	3560
	Height (H)	3300	3300	3300	3300	3300	3260	3390	3420	3580
Maximum shippir (Kg)	ng weight	35000	37000	38000	40000	46000	51000	56000	62000	68000

TP-YYW Series Oil (Gas) Combustion Organic Heat Carrier Heater Boiler



TP-YYW Oil (Gas) Organic Heat Carrier Boiler

This is a new type of thermal equipment, which uses oil or gas as fuel; it takes heat conduction oil as circular media for heat supply. We use high temperature circular pump for heat conduction oil; the heat conduction oil shall return to the boiler for warm up after supplying to heat consumption equipment.

It has a lot of advantages such as can reach to high working temperature (300°C approximately) under normal pressure, can carry out stable heating, can precisely control working temperature, has higher heat efficiency in the system, does not require any water treatment equipment, convenient in performance and maintenance, safe, reliable and save energies.

This series of heat conduction furnace is compact in structure, elegant in appearance, great performance and easy in operation.

It is extensively used in industries of textile, printing, chemical, plastic, paint and automobile, synthetic fiber, rubber, shipbuilding, food, and etc...

Standard Specif	fication / Model	TP-YYW- 700Y(Q)	TP-YYW- 1000Y(Q)	TP-YYW- 1200Y(Q)	TP-YYW- 1400Y(Q)	TP-YYW- 1800Y(Q)	TP-YYW- 2400Y(Q)	TP-YYW- 2800Y(Q)
Rated Evaporatio	n Capacity (KW)	700	1000	1200	1400	1800	2400	2800
Design tempe	erature (≦°C)	320	320	320	320	320	320	320
Rated Pressure (MPa)		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Design efficiency (\geq %)		≧ 80	≧ 83	≧ 83	≧ 85	≧ 85	≧ 85	≧85
All System installed capacity (KW)		30	30	42	42	45	70	80
	Length (L)	3500	4200	4500	5000	5700	6000	6300
Dimensions (mm)	Width (W)	1950	2100	2200	2300	2600	2600	2800
	Height (H)	2350	2500	2700	2900	3000	3000	3100
Maximum shipping weight (Kg)		6900	7800	8300	9100	9700	10300	11600

TP-YYW Series Oil (Gas) Combustion Organic Heat Carrier Heater Boiler Technical Parameter (I)

TP-YYW Series Oil (Gas) Combustion Organic Heat Carrier Heater Boiler Technical Parameter (II)

Standard Specification / Model		TP-YYW- 3500Y(Q)	TP-YYW- 4200Y(Q)	TP-YYW- 5600Y(Q)	TP-YYW- 7000Y(Q)	TP-YYW- 9500Y(Q)	TP-YYW- 12000Y(Q)	TP-YYW- 14000Y(Q)
Rated Evaporatio	n Capacity (KW)	3500	4200	5600	7000	9500	12000	14000
Design tempe	erature (≦°C)	320	320	320	320	320	320	320
Rated Pressure (MPa)		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Design effic	iency (≧%)	≧86	≧86	≧86	≧88	≧ 88	≧ 88	≧ 88
All System installed capacity (KW)		90	100	100	100	150	150	200
Dimensions (mm)	Length (L)	7500	7500	8100	9200	9550	11000	12600
	Width (W)	2800	2800	2900	2900	3000	3000	3000
	Height (H)	3100	3100	3200	3200	4000	4000	4000
Maximum shipp	ing weight (Kg)	16100	18600	23000	28500	33600	38000	45000

The Other Fuels for Organic Heat Carrier Furnace

In recent years the world's tradition energy resources are getting less and less, our company advanced our technology and study carefully for different countries energy resources and develop the Organic Heat Carrier Furnace to burn these bio fuels such as timber, sawdust, nutshell, rice husk, palm shell...etc, for customer to choose.





中正國際鍋爐有限公司 Zozen International Boiler CO.(ZIBCO)

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