

YY(Q)W-2100Y. Q (1.8 million kcal)

Organic heat carrier furnace supply list and technical data

#	Name	TS	Unit	Quantity
Section 1	Burning system			
1	Boiler host	YY(Q)W -2100Y(Q)	short for Taizhou	1
	Implement the US ASME standards			
2	Gas burner	TBG260MC	short for Taizhou	1
3	chimney	Φ 500	rice	8
Section 2	Circulatory system			
1	High temperature circulating oil pump	RY125-100-250	short for Taizhou	2
2	Gear injection pump	2CY-3.3/0.33	short for Taizhou	1
3	filter	DN 150	short for Taizhou	2
4	oil and gas separator	DN 150	short for Taizhou	1
5	expansion drum	2.5m ³	short for Taizhou	1
6	oil storage tank	5m ³	short for Taizhou	1
Section 3	Navar			
1	control cabinet	The STDK-300 type	short for Taizhou	1
2	content gage	L=500	piece	2
3	mometer	WZP-220 L=150mm	piece	3
4	bimetal thermometer	Type 51 Grade 1.50-400°C	piece	3
5	pressure gage	YTZ -150, 0-1.6MPa	piece	2
6	Needle-type valve and buffer gauge bending	JJM1-160P DN6	cover	2
7	Floball level controller	UQK-02	short for Taizhou	1

Technical data

	Technical parameter	Remarks
1. specifications		
Boiler model	YY(Q)W-2100Y(Q)	
Rated heating quantity	2100KW	
nominal working pressure	0.8 MPa	
Boiler structure form	Round cylinder three return journey	
combustion mode	Micro positive pressure chamber combustion	
2. power suppl		
voltage	380 V	
Maximum float up and down the voltage	5%	
supply frequency	50 Hz	
power	42.5KW	Including the burner and the circulating pump, etc.
3. Boiler parameters		
Design and calculation pressure	1.1MPa	
nominal working pressure	0.8Mpa	
maximum working temperature	320 °C	
Rated outlet temperature	320 °C	
Rated inlet temperature	290 °C	
heating surface	127.55m ²	
Total oil capacity	1.7m ³	
net weight	≈10650kg	
Design fuel	blended fuel	
Low fuel heat generation rate	35438 kJ/Nm ³ ()	
Fuel gas consumption	220-240Nm ³ /h(natural gas)	
Design smoke exhaust temperature	≤170 °C	
heat efficiency	93.89%	
Income and out oil valve	PN1.6 DN150	

Sewage pipe diameter	DN25	
Overall hydrostatic test pressure	1.2 Mpa	
In the furnace resistance	0.37Mpa	
Circulating oil volume	112.5m ³ /h	
Place of smoke outlet	The rear row	
Boiler load adjustment range	30-110%	
Boiler minimum stable combustion load	30%	
Main material specification of the boiler	Φ 89×4mm	(GB/T3087-2008)
Material type of the furnace body insulation material	Aluminum silicate fiber felt	
Boiler shell protective layer material	304 stainless steel mirror plate	
Boiler surface temperature	≤60°C	
Chimney diameter	Φ426mm	
chimney height	8m	
4. Boiler transportation size		
long	5100mm	
wide	2413mm	
tall	2460mm	