



Fully Automatic Biomass Steam Boiler Wood Pellet Steam Boiler Coal Straw Fired

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: OEM
- Certification: CE Certification
- Model Number: OEM
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: Carton, pallet, wooden case or according to customer's package requirements
- Delivery Time: 30 working days
- Payment Terms: 30% deposit + 70% T/T before shipping
- Supply Ability: 20 sets per month



Product Specification

- Product Name: Series Biomass Fired Steam Boiler
- Fuel: Biomass, Straw, Wood, Coal
- Weight: Customization
- Style: Historical
- Condition: New
- Pressure: 1.25/1.6Mpa
- Dimension: Depends
- Type: Natural Circulation
- Warranty: 2 Years
- Color: Depends
- Highlight: biomass log boiler, biomass fired boiler

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Product Description

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The new type of series steam boiler is a single drum-type boiler with water-fired tube shell, and the combustion equipment is a chain grate. The water wall on the left and right sides of the furnace is a radiative heating surface. The lower part of the boiler tube adopts a new technology of cross arrangement, the two wings of the furnace are convection heating surface, and a threaded flue pipe (57 × 3) convection heating surface is arranged in the pot tube. The heat-resistant concrete is adopted in the furnace wall, and the outer part of the boiler is a three-dimensional guard shell.

Product Features

1. Installation convenience:

The boiler is generally fast-loading factory, easy to transport and on-site installation, greatly shorten the construction cycle, save installation costs, so that the boiler can be put into production in time.

2. Reliable operation:

Boiler heating surface layout is reasonable, water circulation is smooth, and each heating surface is cooled in time, so as to effectively ensure the safe operation of the boiler.

3. Maintenance and repair convenience:

Boiler drum set up manhole, can enter inspection repair. It is convenient to open the smoke box in front of the boiler, and the personnel can check it easily and clearly, which provides a good condition for correct treatment.

4. Full combustion:

With the secondary air and reasonable furnace design, the fuel can be fully burned and the black smoke can be eliminated.

5. High efficiency grate:

Boiler grate adopts double side ventilation, which is brought naturally to the front end of boiler row by dust cleaning technology, which avoids air leakage, fuel leakage and uneven ventilation, and is easy to operate, and has obvious advantages compared with ordinary grate.

6. Convenient ash cleaning:

Many ash cleaning holes can be set up on the boiler, which can remove ash in time and effectively, avoid the trouble of operation and decrease of thermal efficiency caused by boiler ash accumulation, and ensure the stability of boiler load.

Technical Parameters

Main Technical Parameters of Biomass Series Steam Boiler

| Steam Capacity | t/h | 1 | 2 | 3 | 4 | 6 | 8 | 10 |
|------------------------|----------------|-------------------|----------|----------|----------|----------|----------|----------|
| Working Pressure | MPa | 1.25/1.6 | 1.25/1.6 | 1.25/1.6 | 1.25/1.6 | 1.25/1.6 | 1.25/1.6 | 1.25/1.6 |
| Steam Temperature | | 193/204 | 193/204 | 193/204 | 193/204 | 193/204 | 193/204 | 193/204 |
| Feed Water Temperature | | 20 | 20 | 20 | 20 | 20 | 20 | 60 |
| Thermal Efficiency | / | ≥82% | | | | | | |
| Fuel | / | Biomass particles | | | | | | |
| Fuel Consumption | Kg/h | 176.6 | 352.3 | 571 | 522 | 1044 | 1396.5 | 1743.3 |
| Heating area | m ² | 39.82 | 86 | 120.2 | 174.32 | 220.6 | 317 | 409 |
| Grate area | m ² | 1.97 | 3.2 | 4.8 | 5.5 | 7.04 | 11.7 | 13.6 |
| Power consumption | Kw | 18 | 26 | 31.5 | 34 | 62.4 | 76.4 | 87.2 |
| water volume | m ³ | 4.5 | 4.68 | 5.9 | 6.3 | 11 | 13.8 | 16.5 |

Note:biomass particles 17084KJ/Kg (4085Kcal/Kg). If the low calorific value of biomass fuel is larger than this value, the corresponding fuel consumption will be more economical than the value in the table.

External and Interface Dimension of Biomass steam boiler

| Steam Capacity | t/h | 1 | 2 | 3 | 4 | 6 | 8 | 10 |
|--------------------------------|-------|------|------|------|------|------|------|------|
| Transport Dimension | L mm | 5100 | 6140 | 6330 | 6880 | 7290 | 7800 | 8500 |
| | W mm | 2200 | 2600 | 2700 | 2700 | 3190 | 3400 | 3400 |
| | H mm | 2900 | 3300 | 3300 | 3300 | 3700 | 3700 | 3700 |
| Mainframe Transport Weight | / t | 15 | 18 | 24 | 27 | 31 | 33 | 41 |
| Main Steam Valve Pipe Diameter | DN mm | 65 | 80 | 100 | 100 | 125 | 150 | 150 |

| | | | | | | | | | |
|---------------------------|----|----|------|------|------|------|-------|------|------|
| Feed Water Valve | DN | mm | 40 | 40 | 40 | 40 | 50 | 50 | 50 |
| Safety Valve Diameter | DN | mm | 2*40 | 2*50 | 2*50 | 2*50 | 50/80 | 2*80 | 2*80 |
| Drain Valve Pipe Diameter | DN | mm | 3*40 | 3*40 | 3*40 | 3*40 | 3*40 | 3*40 | 3*40 |
| Chimney Diameter | φ | mm | 280 | 350 | 410 | 410 | 530 | 720 | 750 |

Remarks: We will reserve rights to change the above mentioned data due to continuous policy transformation and product improvement.



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