

# Biomass Fuel Steam Generator

ADINA INDUSTRIES CO.,LTD

Professional Manufacturer For New Energy Boiler  
Safety、 Stable and Energy-Saving





## Company Profile



Adina Industries adheres to the concept of being responsible for the economy, environment and society, and has been devoted to the research, development, production and sales of small and medium-sized new energy environmentally friendly boilers for fifteen years, and has always been at the forefront of the industry with a keen sense of smell. Adina has been committed to the development of export business. Its products are exported to Southeast Asia, South Korea, Spain, the United Kingdom, Africa, the Middle East and other countries and regions. It has production bases and operation centers in China, and has professional offices in Bangladesh, Morocco, Turkey and other countries. The energy management and sales operation center has won high praise from overseas customers in the industry due to its high energy consumption ratio, stable quality and perfect service.

Our aim is "safe products, stable quality, perfect services and saving customers' operating costs". We welcome customers to create and share the "ADINA" brand with our company.





- Water Pipe structure, rapid heating
- Built-in dust collector, shipped as a complete unit, easy to install

### Technical Advantages

- The product is produced in strict accordance with the standard specifications, strength calculation and standard process flow of Class B boilers. The material part is made of steel plates with a thickness of 12mm. The pressure-bearing parts of the furnace are made of Q245R container-specific plates. The seams have been X-ray inspected to ensure the welding process. Quality, the weight of the furnace body is more than 2 times heavier than the same model on the market.
- Equipped with Adina's special microcomputer control system, one-button operation, five levels of adjustable fire power; the control system has an Internet of Things remote monitoring function to realize mobile APP control, which is safe, simple and flexible.
- The factory adopts a standardized and quantitative assembly line production model to ensure the standardization and stability of each product. The complete machine is shipped from the factory and only needs to be connected to water, electricity, steam and bacon pipes. The installation workload is small and the installation materials are saved.
- The furnace is equipped with secondary oxygen supplementation to burn in a semi-gasified state. The furnace temperature is higher and the combustion is complete.
- Special grate structure, fuel spreads over a large area, achieving the effect of burning the entire furnace
- Equipped with a waste heat recovery device and a dust removal device to achieve the effect of no smoke and dust visible to the naked eye.
- With compact structure and small size, steam boilers within 5 tons can be replaced by this series of modular combination



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|--|--|--|---|---|
| <p>Ironing washing industry:<br/>dry washing machine,<br/>dryer, water washing<br/>machine, dehydrator,<br/>ironing machine, ironing<br/>machine and other<br/>equipment used together</p> | <p>Electroplating surface<br/>treatment industry:<br/>electroplating tank,<br/>matching washing<br/>machine, bath bath bath<br/>heating constant<br/>temperature</p> | <p>Food processing industry:<br/>tofu machine, rice noodle<br/>machine, cold leather<br/>machine, steaming box,<br/>sterilization tank,<br/>packaging machine,<br/>painting equipment,<br/>sealing machine and other<br/>equipment supporting use,<br/>hotels, enterprises and<br/>institutions canteen and<br/>various service stations<br/>disinfection, steamed<br/>vegetables, steamed rice<br/>supply boiling water</p> | <p>Biochemical industry:<br/>fermenter, reaction pot,<br/>sandwich pot, mixer,<br/>emulsifying machine and<br/>other equipment supporting<br/>use</p> | <p>Other industries: (oil fields,<br/>automobiles) steam<br/>cleaning industry, (hotels,<br/>dormitories, schools)<br/>steam or hot water supply,<br/>(Bridges, railways)<br/>concrete maintenance, etc</p> |
|--|--|--|---|---|

### Application Parameters

|   |                   |  |                    |
|---|-------------------|--|--------------------|
| <b>Model</b>                                  | ADSG-BWP 500      | <b>Qty</b>   | 1Set               |
| <b>Measured Evaporation Rate</b>              | 450kg/h           | <b>Rated Operating Pressure</b>                    | 0.8Mpa             |
| <b>Applicable Fuel</b>                        | Biomass Fuel Rods | <b>Thermal Efficiency</b>                          | 83.76%             |
| <b>Fuel Consumption</b>                       | 80-90kg/h         | <b>Feeding Motor Model</b>                         | 180W/50KB          |
| <b>Blower Power</b>                           | 0.75kw            | <b>Induced Draft Fan Power</b>                     | 1.5kw              |
| <b>Safety Valve Diameter</b>                  | DN25              | <b>Water Inlet Diameter</b>                        | DN25               |
| <b>Steam Outlet Dia</b>                       | DN40              | <b>Furnace Drain Diameter</b>                      | DN25               |
| <b>Energy Saver Sewage Discharge Diameter</b> | DN20              | <b>Water Level Meter Sewage Discharge Diameter</b> | DN20               |
| <b>Chimney Diameter</b>                       | ø219              | <b>Body Dimensions</b>                             | 2350*1000*2400mm   |
| <b>External Dust Collector Size</b>           | ø600*2100mm       | <b>Applicable Power Supply</b>                     | 3 phases 380V 50HZ |
| <b>Distribution Power</b>                     | ≤5.5kw            | <b>Overall Shipping Weight</b>                     | 1800KG             |



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|---|------|---|-------|
| <b>Biomass steam generator</b>            | 1Set | <b>Fin-type energy saver (built-in)</b>                               | 1 Set |
| <b>Cyclone dust collector (external)</b>  | 1Set | <b>LCD microcomputer control system</b>                               | 1 Set |
| <b>Flat hydraulic control system</b>      | 1Set | <b>Automatic feeding system (including motor transmission system)</b> | 1Set  |
| <b>Automatic ignition system</b>          | 1Set | <b>Furnace overheating insulator</b>                                  | 1Set  |
| <b>Blower</b>                             | 1Set | <b>High temperature special induced draft fan</b>                     | 1Set  |
| <b>Safety Valve</b>                       | 2Pcs | <b>Pressure gauge</b>   | 1Pcs  |
| <b>Pressure controller</b>                | 1Pcs | <b>Main steam valve</b>   | 1Pcs  |
| <b>Furnace drain ball valve</b>           | 1Pcs | <b>Economizer drain ball valve</b>                                    | 1Pcs  |
| <b>Water level meter drain ball valve</b> | 1Pcs | <b>Vertical high temperature and high pressure water pump</b>         | 1Pcs  |
| <b>Water inlet filter</b>                 | 1Pcs | <b>High temperature check valve</b>                                   | 2Pcs  |
| <b>Screw Nut</b>                          | 1Bag | <b>Operating Instructions</b>   | 1Set  |
| <b>Product quality certificate</b>        | 1Set |   |       |