

Solid fuel water heating boiler comprises a housing with a door, a chimney and inlet and outlet pipes for supplying and discharging water, a furnace completely lined with refractory material, surrounded by a water jacket and equipped with grates, a horizontally arranged tubular heat exchanger located above the furnace, a pneumatic pipe cleaning system located opposite the pipes, a screw for supplying fuel located in the lower part of the furnace above the grates, a screw for removing ash located under the grates, a chimney located in the upper part of the furnace and connected by a gas duct to the boiler heat exchanger, a main fan located below the grate level, a fan for supplying secondary air. The tubular heat exchanger of the boiler is made of gas-tube, two-pass and equipped with heat exchange intensifiers in the form of a twisted ribbon. The fan for supplying secondary air is located in the middle part of the furnace, the system of holes used for distributing secondary air in the furnace is located in the middle part of the furnace. The furnace is surrounded by a water jacket on four sides, except for the door for servicing the furnace, and the grates are made movable and are located in the lower part of the furnace. An ash scraper is located under the grates. The chimney is located on the same axis as the second pass of the tubular heat exchanger of the boiler.