

The invention relates to heat-power engineering and can be used in gas-consuming water heating boiler plants. A boiler plant comprises a water-heating boiler unit with a gas-burner device connected to consumer of heat with supply pipeline and return pipeline with network pump and water heater included between the network pump and boiler plant, with formation of water circulation circuit of the heat supply system, equipped with recirculation pipeline with re-circulation pump and bypass pipeline, and the boiler unit with the main gas duct is connected to the chimney through connected in sequence slide, water heater, air heater and smoke exhauster, the main gas duct is equipped with a bypass gas duct input of which is connected to the main gas duct between the boiler unit and the slide, and the gas-burner device is connected with the main air duct to atmosphere through connected in sequence in direction of motion of air ventilator and air heater. The plant is additionally equipped with a gas-water heat exchanger connected by the gas cavity to the bypass gas duct, and with the water cavity – to re-circulation pipeline, and water-air heat exchanger water cavity of which is included to the bypass pipeline. The main air duct is equipped with a shutter placed between the ventilator and air heater, and bypass air duct, there air cavity of the water-air heat exchanger is included, at that the inlet of the bypass air duct is connected to the main air duct between ventilator and the slide, the outlet – between the air heater and gas-burner unit, section of air duct between the air heater and the outlet of the bypass air duct is connected to the section of the main gas duct between the water heater and air heater. The invention provides decrease of consumption of electric energy for drives of the re-circulation pump and network pump and increase of thermal effectiveness of the plant.