ABSTRACT

Provided is a flue gas waste heat coupled heating system for recycled condensate water. Depending on the flow of different media, the system may be divided into a waste incineration flue gas discharge system, a condensate heating system, and a closed circulating water system. A boiler, a dust collector, a flue gas-steam heat exchanger, an SCR denitration device, a low-temperature economizer, and an induced draft fan are sequentially connected via flue ducts. A steam turbine, a condenser, a low-pressure heater, a water-water heat exchanger, a deaerator, and a boiler feedwater pump are sequentially connected via a condensate passage. The deaerator, the circulating water pump, the water-water heat exchanger, and the low-temperature economizer are sequentially connected via circulating water pipes. A stream of circulating water is drawn from the low-pressure feedwater of the deaerator to the water-water heat exchanger to heat the condensate exiting the low-pressure heater.