

ABSTRACT

A flue gas heat recycling system is disclosed. The flue gas heat recycling system includes a phase change heat exchanger having an upper phase change section and a lower phase change section. The flue gas heat recycling system further includes an automatic control device arranged on the phase change heat exchanger. The upper phase change section of the phase change heat exchanger is connected to a main condensed water pipe of a low-pressure backheating heater system. The lower phase change section of the phase change heat exchanger is arranged in a flue gas channel. A temperature sensor is arranged on the lower phase change section of the phase change heat exchanger. The automatic control device is able to adjust the condensed water flow from the low-pressure backheating heater system to the upper phase change section of the phase change heat exchanger.



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