

Title (en)

HEAT EXCHANGER FOR OPERATING A BOILER INSTALLATION FOR SUPERHEATED STEAM

Publication

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Application

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Abstract (en)

[origin: WO8302658A1] Method for operating a high pressure steam boiler (1) and heat exchanger (8) for implementing such method. Condensed water from users (3', 3", 3'') connected to the high pressure steam boiler (1) is fed back to a condensed water tank (5) from which supply water is supplied by means of a supply pump (7) to the steam boiler (1). The condensed water and the supply water, before reaching the condensed water tank (5), circulate through a heat exchanger (8). The boiling condensed water is brought to an empty space of the heat exchanger (8), the supply water intended to be reheated is pumped to the heat exchanger (8) and is then supplied through spiral conduits from the cold area to the hot area of the heat exchanger (8) and is fed back to the steam boiler (1) by such heating of the supply water, it is possible to use economically the heat contained in the condensed water thereby allowing to achieve important savings on fuel for heating the steam boiler. The invention also discloses a heat exchanger (8) which comprises a vessel (5) inside which there is arranged a conduit for the first medium and a connection for the second medium. The method and device herein disclosed are particularly appropriate in plants comprising boilers for dry cleaners, laundries, etc...

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IPC 8 full level

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