

Title (en)
ONCE-THROUGH STEAM GENERATOR

Title (de)
DURCHLAUFDAMPFERZEUGER

Title (fr)
GÉNÉRATEUR DE VAPEUR EN CONTINU

Publication
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Application
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Abstract (en)
[origin: WO2015018686A1] The invention relates to a once-through steam generator, in particular forced-flow once-through steam generator, having a combustion chamber (1) of substantially rectangular cross section, the combustion chamber walls of which comprise substantially vertically arranged evaporator pipes, connected to one another in gas-tight fashion by means of pipe webs, of the once-through steam generator, through which evaporator pipes a flow medium can flow from bottom to top, wherein the evaporator pipes of the combustion chamber walls are, in accordance with their degree of heating, combined by way of upstream inlet collectors in each case to form more intensely heated pipe groups (10) and less intensely heated pipe groups (11), and wherein a feed water supply (20, S1, S2, S3, S4) is assigned to the respective inlet collectors. Here, at least one regulating valve (R, R1, R2, R3, R4) for the regulated throttling of the mass flow of the flow medium into the evaporator pipes is provided in the region of the feed water supply (20, S1, S2, S3, S4), and to determine a control variable for the at least one regulating valve (R, R1, R2, R3, R4), temperature measurement means for measuring outlet temperatures of the flow medium exiting the evaporator pipes are provided in the region of downstream outlet collectors, and wherein each of the more intensely heated pipe groups (10) and less intensely heated pipe groups (11) is assigned to in each case one of the inlet collectors and to an outlet collector, and each of the outlet collectors has one of the temperature measurement means.

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