

Title (en)
HEAT EXCHANGE SYSTEM

Title (de)
WÄRMETAUSCHERANORDNUNG

Title (fr)
SYSTEME D'ECHANGE THERMIQUE

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Application
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Abstract (en)
[origin: WO9941547A1] The invention relates to a heat exchange system used to preheat the main condensate in power station processes. Two welded plate heat exchangers (11, 12) are mounted in a cylindrical housing (15) and connected to each other by means of an integrated intermediate chamber (13). A separating wall (17) which separates two heating chambers (NDV1a and NDV1b) in a pressure-tight manner is incorporated into the housing in the area of the intermediate chamber (13). The separating wall has an opening cut to fit the circumference of the intermediate chamber and is welded to both said intermediate chamber (13) and to the housing (15). The heating condensate of the first heating chamber (NDV1a) is pushed into the intermediate chamber (13) via a condensate lift (50) and there mixed with the main condensate. The heating condensate from the second heating chamber (NDV1b) is cascaded into the first heating chamber via an adjustable choke (60). The heat exchange system is characterized in that it has a compact structure and offers more effective preheating of the main condensate.

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