

Martin GmbH für Umwelt-
und Energietechnik
Our ref.: 001/101/SI

ABSTRACT

The furnace with liquid-cooled grate elements (2.1 to 2.5) has an inflow (24) and a return (22) to these grate elements, the inflow and the return being connected to a condensation device (23) open to the atmosphere. The inflow has arranged in it a U-shaped cooling-liquid seal (25), one leg (26) of which has a liquid head which corresponds to an arbitrarily selected maximum pressure. The other, shorter leg is connected to a central distributor (5) for the individual grate elements of the grate stages (2.1 to 2.5). The distance between the lowest point of the coolant flow of the lowest grate element and the upper point of the shorter leg corresponds to a selectable safety height amount which generates a pressure which counteracts the spread of steam bubbles occurring in the grate elements, so as to prevent a reversal in the direction of flow of the coolant.

(FIGURE)

This Sheet Has Been Replaced



THIS SHEET HAS BEEN
REPLACED