

Abstract

The invention relates to an arrangement for indirectly transferring heat to a flowing process medium, in particular for carrying out hydrocarbon steam reformation. The arrangement comprises a heating chamber (1), which can be heated from above by burners (2) arranged in a plurality of rows and through which run, on vertical longitudinal planes, a plurality of rows of heat exchanger tubes (3) through which the process medium flows. The combustion waste gases of the burners (2) [are extracted through] waste gas ducts (4), which are made of refractory-grade material and arranged on the bottom of the heating chamber (1) parallel to one another and to the rows of the heat exchanger tubes (3) and have a substantially rectangular cross-section that is constant in the axial direction. For the passage of waste gases from the heating chamber (1) into the interior of the waste gas ducts (4), each waste gas duct (4) has openings (5) distributed on its longitudinal sides in the area near the bottom over its entire axial length.

According to the invention, to equalize the waste gas flow conditions, flow bodies are disposed inside the waste gas ducts (4) in the region of the lower part of the rows of the heat exchanger tubes (3).

Figure 1