

Abstract:

Wastewater heat exchanger (1) comprising, in a housing (2) with inlet and outlet (3, 4) for the wastewater, a substantially cuboid package (7) of cylindrical tubes (8) arranged parallel to and below one another and through which a heat-absorbing fluid flows, and a cleaning device for the tube jackets, which is suspended above the tube package (7) slidably in the longitudinal direction of the tubes (8) and is provided with retaining elements (11) hanging down between the tubes (8) from a support (10), which carry elastic lips (12) that sweep over the tube jackets. To ensure reliable and complete cleaning of the tube jackets and to enable a compact design, each lip (12) has a finger (16) engaging between two superimposed tubes (8) and is fixed in the retaining element (11) at an angle (α) of 5 to 30° to the longitudinal direction of the tubes (8), whereby adjacent fingers (16) cover at least half a tube jacket and the ends of the fingers (16) are curved in the longitudinal direction of the tubes (8), and that in each retaining element (11) two oppositely directed lips (12) are attached, which each sweep over laterally adjacent tubes (8), and that the support (10) of the retaining elements (11) is connected to a single guide extending in the longitudinal direction of the tubes (8).

(Fig. 3)