

Title (en)

COMPACT FAN, COMPRISING A HEAT EXCHANGER WITH INTEGRATED OR ATTACHED VENTILATORS

Title (de)

KOMPAKTLÜFTER, BESTEHEND AUS WÄRMETAUSCHER MIT INTEGRIERTEN ODER ANGEDOCKTEN VENTILATOREN

Title (fr)

VENTILATEUR COMPACT COMPOSÉ D'UN ÉCHANGEUR THERMIQUE AVEC SOUFFLEURS INTÉGRÉS OU FIXÉS

Publication

EP 2095052 A1 20090902 (DE)

Application

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Priority

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Abstract (en)

[origin: WO2008052493A1] The invention relates to a coiled heat exchanger (WT), which has 360° channels (K1 - K6) following one after the other from the inside to the outside, wherein the first exchange medium (A) is admitted to the first channel and the second exchange medium (B) is admitted to the following channel in countercurrent, with some open and some closed annular passages, which form annular elements for the inflow and outflow of the exchange media (A, B) in such a way that lying approximately opposite an open sector of the annulus on one side of the heat exchanger there is a closed sector of the annulus on the other side of the heat exchanger and that the media flows (A, B) are thereby brought together at the extreme ends with the aid of segmental distributor caps (AK, AbK). It is proposed that, by attaching and/or integrating suitable feeding equipment, in particular ventilators (RLK, RLWK), pumps or feed membranes, and by means of routing the channels in the covers or adapters in such a way as to match the segmental connection areas of the heat exchanger, the heat exchanger (WT) is formed as a compact unit, in particular for air-to-air heat exchange in a device for controlled building ventilation with heat recovery.

IPC 8 full level

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