

Title (en)
HEAT EXCHANGER AND HEAT PUMP USING THE SAME

Title (de)
WÄRMETAUSCHER UND WÄRMEPUMPE DAMIT

Title (fr)
ÉCHANGEUR DE CHALEUR ET POMPE À CHALEUR UTILISANT CET ÉCHANGEUR

Publication
EP 2735832 A1 20140528 (EN)

Application
EP 12818246 A 20120720

Priority
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• JP 2012004636 W 20120720

Abstract (en)
A heat exchanger 100 includes a plurality of heat exchange segments 10. Each of the heat exchange segments 10 is composed of an inner tube assembly 26 including two inner tubes 24, and an outer tube 28. A gap width G represented by a difference $((\varnothing_{\text{Ein}} / 2) - \varnothing_{\text{Eout}})$ between a half of an inner diameter \varnothing_{Ein} of the outer tube 28 and an outer diameter $\varnothing_{\text{Eout}}$ of the inner tube 24 satisfies $0 < G \leq 0.8$ (unit: mm). A path number N indicating the number of the heat exchange segments 10 and the inner diameter \varnothing_{Ein} (unit: mm) of the outer tube 28 satisfy one of relationships (1) to (5) below. (1) $N = 4$ and $8.20 \leq \varnothing_{\text{Ein}} \leq 9.50$ (2) $N = 5$ and $7.58 \leq \varnothing_{\text{Ein}} \leq 8.90$ (3) $N = 6$ and $7.14 \leq \varnothing_{\text{Ein}} \leq 8.50$ (4) $N = 7$ and $6.78 \leq \varnothing_{\text{Ein}} \leq 8.20$ (5) $N = 8$ and $6.52 \leq \varnothing_{\text{Ein}} \leq 7.90$

IPC 8 full level
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Cited by
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