

Title (en)
CONDENSER ASSEMBLY FOR REFRIGERANT

Title (de)
KONDENSATORBAUGRUPPE FÜR KÄLTEMITTEL

Title (fr)
ENSEMBLE CONDENSATEUR POUR FLUIDE FRIGORIGÈNE

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Application
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Abstract (en)
[origin: WO2014140133A1] The invention relates to a condenser assembly (1), comprising a plurality of heat-exchanger pipes (4), which are arranged equidistant from each other having corrugated fins (5) arranged therebetween and lead into deflection regions at both ends and have a free length (Lh) used for heat exchange and, in connection with the corrugated fins (5), form an end area (S) having a width corresponding to the free length (Lh) of the heat-exchanger pipes (4) and a height (Lv), such that the end area (S) results from the product of width and height, wherein the heat-exchanger pipes (4) are connected in parallel in groups and the individual groups are connected in series, wherein the heat-exchanger pipes (4) of the individual groups are arranged adjacent and each group comprises at least two heat-exchanger pipes (4). The percentage share (P) of the heat-exchanger pipes (4) of the first group results from $26.162 \ln(S/\text{dm}^2) - 40.746 \leq P \leq 25.49 \ln(S/\text{dm}^2) - 27.842$ for an end area (S) having a ratio of width to height in the range of 0.5 to 1.0, an end area (S) in the range of 10 to 30 dm², and a specification of the area of the end area (S) in dm².

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