Title (en)

A METHOD FOR HOMOGENIZING A REFRIGERANT FLUID FLOW WITHIN A PLATE HEAT EXCHANGER PROVIDED WITH A REFRIGERANT INLET COLLECTOR WITH A CALIBRATED ORIFICE

Title (de)

METHODE ZUR HOMOGENISIERUNG EINES KÄLTEMITTELSTROMS IN EINEM PLATTENWÄRMETAUSCHER MIT EINEM EINTRITTSSAMMLER MIT BLENDE

Title (fr)

MÉTHODE DE HOMOGÉNISATION D'UN RÉFRIGÉRANT DANS UN ÉCHANGEUR DE CHALEUR À PLAQUES COMPRENANT UN COLLECTEUR D'ENTRÉE AVEC UN ORIFICE

Publication

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Application

EP 20194341 A 20200903

Priority

IT 201900016244 A 20190913

Abstract (en)

[origin: EP3792582A1] Method for homogenizing a flow of coolant fluid inside a plate heat exchanger, the heat exchanger comprising two support end plates (2, 3) on which coolant inlet and outlet connectors (4, 6) and water inlet and outlet connectors (5, 7) are arranged, and a stack (10) of thermal exchange plates interposed between the support end plates (2, 3). Through the stack (10) of thermal exchange plates, a coolant inlet manifold (14) is formed which fluidically connects the coolant inlet connector (4) to the first channels, a coolant outlet manifold, a water inlet manifold and a water outlet manifold. Upstream of the coolant inlet manifold (14), between the coolant inlet connector (4) and the coolant inlet manifold (14), there is a calibrated orifice (20) configured to atomize a liquid/gas mixture entering the coolant inlet manifold (14).

IPC 8 full level

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