

Title (en)
HEAT EXCHANGE SYSTEM AND METHOD FOR REGULATING A HEAT POWER DEVELOPED BY SUCH A HEAT EXCHANGE SYSTEM

Title (de)
WÄRMEAUSTAUSCHSYSTEM UND VERFAHREN ZUR REGELUNG EINER MIT EINEM SOLCHEN WÄRMEAUSTAUSCHSYSTEM ERZEUGTEN WÄRMELEISTUNG

Title (fr)
SYSTEME D'ECHANGE THERMIQUE ET PROCEDE DE REGULATION D'UNE PUISSANCE THERMIQUE DEVELOPPEE PAR UN TEL SYSTEME D'ECHANGE THERMIQUE

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Abstract (en)
[origin: WO2013004972A1] The invention relates to a heat exchange system and to a method for regulating a heat power developed by a heat exchange system. Said heat exchange system (1) comprises: two heat exchangers (5, 15) respectively forming an evaporator and a condenser; a heat-transfer fluid circuit comprising at least first (21) and second (22) compression stages arranged in series, the first compression stage (21) feeding the heat-transfer fluid into the second compression stage (22); and a control unit connected to the heat-transfer fluid circuit. The first compression stage (21) comprises a plurality of fixed-capacity compressors (23a, 23b) connected in parallel and has a step-variable capacity, and the second compression stage (22) has at least one variable-capacity compressor (24) and has a continuously variable capacity, the control unit being suitable for regulating a level of heat power of the heat exchange system (1) by selecting one of a plurality of capacity steps of the first compression stage (21), and for modulating the heat power of the heat exchange system (1) around the regulated level, using the capacity of the second compression stage (22).

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