Title (en)
HEAT PUMP UNIT AND METHOD FOR COOLING AND/OR HEATING BY MEANS OF SAID HEAT PUMP UNIT

Title (de)
WÄRMEPUMPENEINHEIT UND VERFAHREN ZUR KÜHLUNG UND/ODER BEHEIZUNG DURCH DIESE WÄRMEPUMPENEINHEIT

Title (fr)
UNITÉ DE POMPE À CHALEUR ET PROCÉDÉ PERMETTANT DE REFROIDIR ET/OU DE CHAUFFER AU MOYEN DE LADITE UNITÉ DE POMPE À CHALEUR

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Abstract (en)
[origin: WO2013088358A1] A heat pump unit (1) comprising at least one circuit (2) adapted to perform a heat pump cycle with a respective operating fluid, which comprises: an evaporator (S8) adapted to perform the evaporation of the operating fluid at a lower pressure of said heat pump cycle and intended to be connected to an external circuit of a first thermal user installation in a cooling operating mode of said heat pump unit; a condenser (S4) adapted to perform the condensation of the operating fluid at a higher pressure of said heat pump cycle and intended to be connected to an external circuit of a heat sink (20) in a cooling operating mode of said heat pump unit (1), and a first heat exchanger (S6), adapted to perform an undercooling of the operating fluid at the higher pressure of said heat pump cycle after the condensation of the same. The first heat exchanger (S6) is selectively connectable to an external circuit of a second thermal user installation (12) for transferring thereto heat power released by said operating fluid during said undercooling. The invention further relates to a method for cooling and/or heating which may be implemented by means of the heat pump unit (1).

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