

Title (en)
THERMOSTATIC EXPANSION DEVICE AND AIR CONDITIONING LOOP COMPRISING SUCH A THERMOSTATIC EXPANSION DEVICE

Title (de)
THERMOSTATISCHE EXPANSIONSVORRICHTUNG UND KLIMATISIERUNGSKREISLAUF MIT EINER DERARTIGEN THERMOSTATISCHEN EXPANSIONSVORRICHTUNG

Title (fr)
DISPOSITIF DE DÉTENTE THERMOSTATIQUE ET BOUCLE DE CLIMATISATION COMPRENANT UN TEL DISPOSITIF DE DÉTENTE THERMOSTATIQUE

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Application
EP 11721801 A 20110412

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• FR 2011000213 W 20110412

Abstract (en)
[origin: WO2011128527A1] The subject of the invention is a device (5) for expanding a refrigerant fluid comprising, on the one hand, a first inlet (8) of the expansion device and a first outlet (9) of the expansion device which are connected by a first refrigerant circulation duct (11), the first refrigerant circulation duct (11) comprising an upstream part (22) and a downstream part (25) which parts are placed in communication by a first communication passage (18) and, on the other hand, a second inlet (12) of the expansion device and a second outlet (13) of the expansion device which are connected by a second refrigerant circulation duct (14). The expansion device (5) comprises a regulating means (15) that regulates an expansion of the refrigerant fluid and comprises a first needle valve (16) housed inside the upstream part (22) of the first refrigerant flow duct (11), the first needle valve (16) being connected by a first connecting rod (19) to a thermostatic sensor (17) in communication with the second refrigerant flow duct (14), the first needle valve (16) being able to allow or prevent refrigerant fluid from circulating through the first communicating passage (18). The regulating means (15) comprises a measurement means (23) for measuring the pressure of the refrigerant fluid entering the evaporator (Pse) which pressure measurement is taken at the first outlet (9) of the expansion device.

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