

Title (en)

A heat exchanger for an air conditioning system

Title (de)

Wärmetauscher für Klimaanlage

Title (fr)

Echangeur de chaleur pour système de climatisation

Publication

EP 1260776 B1 20061213 (EN)

Application

EP 01112491 A 20010522

Priority

EP 01112491 A 20010522

Abstract (en)

[origin: EP1260776A1] A heat exchanger (12) for use in a refrigeration system of a vehicle air conditioning system has a first refrigerant pathway (20) through which refrigerant can flow from a gas cooler (11) of the refrigeration system to an expansion valve (13) of the system, and a second refrigerant pathway (21) through which the refrigerant can flow from an evaporator (14) or accumulator 16 of the system to the compressor (10). The two pathways (20, 21) are arranged so that a thermal flow can occur between the refrigerant flowing in them, typically from the relatively warm refrigerant discharged from the condenser (11) to the colder refrigerant discharged from the evaporator (14) or accumulator 16. In order that the thermal flow can be regulated a bypass (22, 23) is provided through which at least a portion of the refrigerant can flow instead of flowing through the pathway or pathways (20, 21) provided with the bypass and a control valve (V1, V2, V3, V4, V5, V6, Z1, Z2, Z3, Z4) is provided to control the flow of refrigerant through the bypass (22, 23). <IMAGE>

IPC 8 full level

F25B 40/00 (2006.01); **F25B 9/00** (2006.01); **F25B 41/04** (2006.01)

CPC (source: EP US)

F25B 40/00 (2013.01 - EP US); **F25B 9/008** (2013.01 - EP); **F25B 41/20** (2021.01 - EP US); **F25B 2309/061** (2013.01 - EP); **F25B 2400/04** (2013.01 - EP); **F25B 2400/054** (2013.01 - EP); **F25B 2600/2501** (2013.01 - EP)

Cited by

CN103851853A; EP1819970A4; WO2006062860A2; WO2023098780A1

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