

Title (en)
Variable internal heat exchanger

Title (de)
Verstellbarer innerer Wärmeübertrager

Title (fr)
Echangeur de chaleur interne réglable

Publication
EP 1734324 A2 20061220 (DE)

Application
EP 06012225 A 20060614

Priority
DE 102005028510 A 20050617

Abstract (en)
On a cold water circuit (10) an inner heat exchanger (2) is used to vary the thermal coupling between the high (8) and low (9) pressure sides of the inner heat exchanger. If the temperature at the exit of the compressor threatens to get too high, the exchange temperature of the inner heat exchanger is reduced, so that the cold water flowing through the evaporator (4) is not further heated by cold water coming from the high pressure side. The heat exchanger has a variable heat exchange interface by means of which the temperature of heat exchange between at least two of the media flowing through the heat exchanger can be varied. The variable heat exchanger has at least one variable material load device, and at least one adjustable fluid conduction device. The adjustable fluid conduction device is built at least in part as a flap shutter and/or as a roller blind shutter.

IPC 8 full level
F28D 1/04 (2006.01); **F28D 7/00** (2006.01); **F28F 27/00** (2006.01)

CPC (source: EP)
F25B 40/00 (2013.01); **F28D 1/0435** (2013.01); **F28D 7/0025** (2013.01); **F28F 27/00** (2013.01); **F25B 9/008** (2013.01); **F25B 2309/061** (2013.01); **F25B 2500/18** (2013.01); **F28D 2021/0073** (2013.01)

Cited by
FR2906353A1; CN114777360A; US10183269B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

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