

Title (en)
SPACE COOLING AND HEATING AND HOT WATER SUPPLYING APPARATUS

Publication
EP 0134015 A3 19861230 (EN)

Application
EP 84109370 A 19840807

Priority
• JP 14488383 A 19830810
• JP 19405583 A 19831019

Abstract (en)
[origin: EP0134015A2] A space cooling and heating and hot water supplying apparatus comprising a compressor (1), a first indoor heat exchanger (3) for hot water supply connected at one end thereof to the compressor at its discharge side via a conduit (1a), a second indoor heat exchanger for space cooling and heating (6) and an outdoor heat exchanger (7) each switchingly connected at one end thereof via a four-way valve (2) to an opposite end of the first indoor heat exchanger and a suction side of the compressor via conduits (7a, 1b, 4a, 6a), and an expansion valve (8) connecting together opposite ends of the second indoor heat exchanger and outdoor heat exchanger via conduits (6b, 7b). The apparatus further includes a first on-off valve (11a) and a second on-off valve (11b) operating in reverse actions connected at one end thereof to inlet and outlet ports of a refrigerant tank (10) for regulating the amount of a sealed-in refrigerant and at an opposite end thereof to the lower pressure conduit (7b) and the higher pressure conduit (6b), respectively, connected together by the expansion valve located at their boundary. In a space heating mode, the refrigerant tank is brought into communication with the lower pressure conduit when space heating and hot water supply are both needed, and when only the hot water supply is needed, and in a space cooling mode, the refrigerant tank is brought into communication with the lower pressure conduit when space cooling and hot water supply are both needed and when only the hot water supply is needed, and the refrigerant tank is brought into communication with the higher pressure conduit when only the space cooling is needed.

IPC 1-7
F24F 3/00

IPC 8 full level
F24D 15/02 (2006.01); **F24F 5/00** (2006.01); **F25B 13/00** (2006.01); **F25B 45/00** (2006.01); **F25B 40/04** (2006.01)

CPC (source: EP)
F24D 15/02 (2013.01); **F24F 5/0096** (2013.01); **F25B 13/00** (2013.01); **F25B 45/00** (2013.01); **F25B 40/04** (2013.01); **F25B 2313/023** (2013.01)

Citation (search report)
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• [A] DE 2919824 A1 19801120 - SIEMENS AG

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Designated contracting state (EPC)
DE GB SE

DOCDB simple family (publication)
EP 0134015 A2 19850313; EP 0134015 A3 19861230; EP 0134015 B1 19890201; DE 3476577 D1 19890309

DOCDB simple family (application)
EP 84109370 A 19840807; DE 3476577 T 19840807