

Title (en)
AIR CONDITIONER SYSTEM

Title (de)
KLIMAANLAGENSYSYSTEM

Title (fr)
SYSTÈME DE CLIMATISEUR

Publication
EP 3734192 B1 20240110 (EN)

Application
EP 18893890 A 20181115

Priority
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Abstract (en)
[origin: EP3734192A1] An air conditioner system, comprising: connected in series in a main loop, a compressor (1), an indoor heat exchanger (2), a first throttling device (3), and an outdoor heat exchanger (4). A heat exchanger (5) is further disposed in the main loop, and a bypass defrosting loop (P) is disposed between the compressor (1) and the outdoor heat exchanger (4). One side of the heat exchanger (5) is connected with a first pipeline (M) between the first throttling device (3) and the indoor heat exchanger (2); and the other side of the heat exchanger (5) is connected with a second pipeline (N) between the first throttling device (3) and the outdoor heat exchanger (4). Heat exchange can be performed in the heat exchanger (5) by means of refrigerants in the first pipeline (M) and the second pipeline (N). The bypass defrosting loop (P) is used for defrosting the outdoor heat exchanger (4) in an air conditioner heating process. Therefore, the supercooling degree of the refrigerants in the first pipeline (M) is effectively increased and the evaporation of the refrigerants in the second pipeline (N) can be promoted, thus increasing the produced heat amount of the system and realizing the purpose of non-stop defrosting.

IPC 8 full level
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