

Title (en)

HEAT PUMP SYSTEM, COMBO WASHER-DRYER, AND DRYER

Title (de)

WÄRMEPUMPENSYSTEM, WÄSCHER-TROCKNER-KOMBINATION UND TROCKNER

Title (fr)

SYSTÈME DE POMPE À CHALEUR, LAVE-LINGE/SÈCHE-LINGE COMBINÉ, ET SÈCHE-LINGE

Publication

EP 3184934 B1 20190619 (EN)

Application

EP 14900320 A 20141117

Priority

- CN 201410406212 A 20140818
- CN 2014091311 W 20141117

Abstract (en)

[origin: EP3184934A1] Provided are a heat pump system, a washing-drying integrated machine and a clothes dryer. The heat pump system includes an evaporator (3), a compressor (4), a condenser (2) and a refrigerant regulating subsystem (1); where the evaporator (3), the compressor (4), the condenser (2) and the refrigerant regulating subsystem (1) are sequentially communicated through a pipeline to form a refrigerant circulating loop; and the refrigerant regulating subsystem (1) includes a first branch (11) and a second branch (12) connected in parallel between the evaporator (3) and the condenser (2); the first branch (11) includes a first throttling device (111) having an outlet connected with a pipe inlet of the evaporator (3), and a liquid storing device (114) located between the first throttling device (111) and the condenser (2); and a second throttling device (121) is connected with the second branch (12) in series. When a temperature is high, the liquid storing device (114) enables a space for accommodating refrigerant to increase, and pressure load does not rise rapidly. When the temperature is low, the space for accommodating the refrigerant is reduced, and load of the compressor (4) rises rapidly.

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

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