

Title (en)

A laundry machine with heat pump system and a method for operating the laundry machine

Title (de)

Waschmaschine mit Wärmepumpensystem und Verfahren zur Bedienung der Waschmaschine

Title (fr)

Machine à laver avec système de pompe à chaleur et procédé de fonctionnement de la machine à laver

Publication

**EP 2385169 A1 20111109 (EN)**

Application

**EP 10161726 A 20100503**

Priority

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Abstract (en)

The present invention relates to laundry machine with heat pump system. The heat pump system comprises an air stream circuit (10) and a closed refrigerant circuit (12) for a refrigerant. The air stream circuit (10) includes a condenser (18) and an evaporator (20). The air stream circuit (10) is associated to a drum for receiving laundry to be dried. The refrigerant circuit (12) includes at least one compressor (14), the condenser (18), at least one expansion device (16) and the evaporator (20). The air stream circuit (10) and the refrigerant circuit (12) are thermally coupled by the condenser (18) and the evaporator (20). The condenser (18) is a heat exchanger and provided for heating up the air stream in the air stream circuit (10) and cooling down the refrigerant in the refrigerant circuit (12). The evaporator (20) is a heat exchanger and provided for cooling down the air stream in the air stream circuit (10) and heating up the refrigerant in the refrigerant circuit (12). The heat pump system includes at least one additional heat exchanger (22) between the refrigerant coming from an outlet of the condenser (18), the refrigerant coming from an outlet of the evaporator (20) and air in a further air stream (28). Further, the present invention relates to a method for operating the laundry machine.

IPC 8 full level

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CPC (source: EP US)

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