

Title (en)

Heat pump laundry treatment apparatus

Title (de)

Wärmepumpenvorrichtung zur Wäschebehandlung

Title (fr)

Appareil de traitement de linge à pompe thermique

Publication

**EP 2549007 A1 20130123 (EN)**

Application

**EP 11174963 A 20110722**

Priority

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Abstract (en)

The invention relates to a method for operating a laundry treatment as well as to a laundry treatment apparatus (2), in particular a dryer, a washing machine or a washing machine having drying function, comprising: a laundry storing chamber (18) for treating laundry using processing air (A), a blower (28) for blowing cooling air (C), a processing air loop for circulating the processing air (A) through the laundry storing chamber (18), and a heat pump system (A) for dehumidifying and heating the processing air (A). The heat pump system (4) has a refrigerant loop (6) and comprises: a first heat exchanger (10) for heating a refrigerant and cooling the processing air (A), a second heat exchanger (12) for cooling the refrigerant and heating the processing air (A), a refrigerant expansion device (16) arranged in the refrigerant loop (6) between the second heat exchanger (12) and the first heat exchanger (10), a compressor (14) arranged in the refrigerant loop (6) between the first heat exchanger (10) and the second heat exchanger (12), and an auxiliary heat exchanger (34) connected in the refrigerant loop (6) for cooling the refrigerant, wherein the blower (28) is adapted to remove heat from the auxiliary heat exchanger (34). According to the invention, a shielding device (36) is arranged to shield the compressor (14) against cooling air (C) blown by the blower (28), and/or the compressor (14) is insulated to prevent heat exchange with the compressor's ambient air and the cooling air (C).

IPC 8 full level

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CPC (source: EP US)

**D06F 58/206** (2013.01 - EP US)

Citation (applicant)

DE 4409607 A1 19941027 - MIELE & CIE [DE]

Citation (search report)

- [XAY] EP 1811077 A1 20070725 - SANYO ELECTRIC CO [JP]
- [YA] WO 2008073008 A1 20080619 - TES SCANDINAVIA AB [SE], et al
- [A] DE 4434205 A1 19960307 - SDROJEWSKI JOERG [DE]
- [A] DE 202006018205 U1 20070215 - V ZUG AG [CH]
- [A] US 7458171 B1 20081202 - LENTZ LUKE E [US]

Cited by

EP3992351A4; EP2801654A1; JP2015198872A; EP2990524A1; CN106661815A; US11053634B2; WO2016030149A1; WO2018001158A1; EP2650425B1

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