

Title (en)  
METHOD OF OPERATION OF A HEAT PUMP DRYING AND/OR WASHING APPLIANCE AND HEAT PUMP DRYING AND/OR WASHING APPLIANCE

Title (de)  
VERFAHREN ZUM BETRIEB EINER WÄRMEPUMPENTROCKNUNGS- UND/ODER -WASCHVORRICHTUNG SOWIE WÄRMEPUMPENTROCKNUNGS- UND/ODER -WASCHVORRICHTUNG

Title (fr)  
PROCÉDÉ DE FONCTIONNEMENT D'UN APPAREIL DE LAVAGE ET/OU DE SÉCHAGE DE POMPE À CHALEUR ET UN TEL APPAREIL DE LAVAGE OU DE SÉCHAGE

Publication  
**EP 3124678 B1 20180620 (EN)**

Application  
**EP 15178405 A 20150727**

Priority  
EP 15178405 A 20150727

Abstract (en)  
[origin: EP3124678A1] The present invention relates to method to operate a washing and/or drying appliance (1) including #c A treating chamber where items are introduced and treated with a process medium; #c a heat pump (30) system having a refrigerant circuit (38) in which a refrigerant can flow, said refrigerant circuit (38) including a first heat exchanger (31) where the refrigerant is cooled off, a second heat exchanger (32) where the refrigerant is heated up, a compressor (33) to pressurize and circulate the refrigerant through the refrigerant circuit, said compressor (33) including an electric motor, and a pressure-lowering device (34); said first and/or second heat exchanger being apt to perform heat exchange between said refrigerant flowing in said refrigerant circuit (38) and said process medium; said method comprising: #c storing a plurality (j) of data couples, a first element of each data couple being function of a maximum current value  $i_{MAXj}$  for the compressor electric motor current, and the second element of the couple being a corresponding function of a compressor maximum temperature value  $T_{MAXj}$  associated to the maximum current value  $i_{MAXj}$  of the first element, said plurality of data couples delimiting a safety work space for said compressor; #c measuring substantially at the same time a temperature value  $T_M$  representative of the temperature of said compressor and a current value  $i_M$  representative of the current absorbed by said electric motor of said compressor while said heat pump is in operation; #c comparing said measured temperature value  $T_M$  and said measured current value  $i_M$  with said plurality of data couples; and #c cutting power supply to said compressor if: o there is a data couple ( $T_{MAXj}^*$ ,  $i_{MAXj}^*$ ) in said plurality for which  $|T_{MAXj}^* - T_M| = \min_j (|T_M - T_{MAXj}|)$  and  $i_M \neq i_{MAXj}^*$  or ## there is a data couple ( $T_{MAXj}^*$ ,  $i_{MAXj}^*$ ) in said plurality for which  $|i_{MAXj}^* - i_M| = \min_j (|i_M - i_{MAXj}|)$  and  $T_M \neq T_{MAXj}^*$ .

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Cited by  
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