

Title (en)

CONDENSATION DRYER WITH A HEAT PUMP AND RECOGNITION OF AN IMPERMISSIBLE OPERATING STATE AND METHOD FOR THE OPERATION THEREOF

Title (de)

KONDENSATIONSTROCKNER MIT EINER WÄRMEPUMPE UND ERKENNUNG EINES UNZULÄSSIGEN BETRIEBSZUSTANDS SOWIE VERFAHREN ZU SEINEM BETRIEB

Title (fr)

SÉCHOIR À CONDENSATION COMPRENANT UNE POMPE À CHALEUR, ET RECONNAISSANCE D'UN ÉTAT DE FONCTIONNEMENT INACCEPTABLE, AINSI QUE PROCÉDÉ POUR LE FAIRE FONCTIONNER

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Application

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Abstract (en)

[origin: WO2010015570A2] The invention relates to a condensation dryer 1 with a drying chamber 3 for the objects to be dried, a process air circuit 2, a first fan 19 in the process air circuit 2, a heat pump 13, 14, 15, 17 in which a coolant circulates, an evaporator 13, a compressor 14, a condenser 15 and a throttle 17 as well as a temperature sensor 22 for measuring a temperature of the coolant, and a controller 10. The controller 10 comprises a first means 26 for comparing a temperature $T?$ of the coolant to an upper temperature limit $T?_{lim1}$ stored in the controller 10; second means 27 for shutting off the compressor 14 when $T?$ is greater than or equal to $T?_{lim1}$, and for turning on the compressor 14 after a respective shut off; a counting device 28 for determining a number n of cases in which the compressor 14 has been shut off, said counting device 28 being incremented by 1 every time a shutoff occurs; and third means 29 for comparing the number n with a pre-determined limiting number n_{lim} stored in the controller 10 and for evaluating the difference $?n = (n - n_{lim})$ in relation to the existence of an impermissible operating state. The invention further relates to a method for operating the condensation dryer.

IPC 8 full level

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Citation (search report)

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