

Title (en)
Washer-dryer machine with a heat pump

Title (de)
Wasch- und Trocknungsmaschine mit einer Wärmepumpe

Title (fr)
Machine à laver/sécher avec une pompe à chaleur

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Application
EP 12169807 A 20120529

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Abstract (en)
The present invention is related to a washer-dryer machine (1) comprising: a tub (2) forming a laundry treatment chamber (4) and containing a rotatable drum (2) wherein laundry (25) can be loaded and submitted to a washing cycle and/or to a drying cycle; an air duct (16), for circulating hot air in the laundry treatment chamber (4); a heat pump (5) comprising an evaporator (6), arranged in the air duct (16) for cooling and dehumidifying hot air exiting the laundry treatment chamber (4), and a condenser (102), arranged in the air duct (16), downstream of the evaporator (6), for heating air before admitting it into the laundry treatment chamber (4); a draining channel (11), fluidly connected to the laundry treatment chamber (4) and comprising a draining pump (15), for draining washing liquid from the laundry treatment chamber (4). The draining channel (11) and the air duct (16) are in fluid communication with one another, in such a way that moisture condensed in the evaporator (6) can be drained via the draining channel (11). The evaporator (6) is arranged in such a way that during a washing cycle the washing liquid present inside the tub (2) and/or inside the air duct (16) and/or draining channel (11) at least partially submerges the evaporator (6), so as to at least partially wash the latter and at least partially remove fluff/lint from the evaporator (6).

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