

Title (en)
Laundry washing and drying machine

Title (de)
Waschmaschine und Trockner

Title (fr)
Machine à laver et sécher le linge

Publication
EP 2189568 B1 20120104 (EN)

Application
EP 08169589 A 20081121

Priority
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Abstract (en)
[origin: EP2189568A1] Laundry washing and drying machine (1) comprising a casing (2) and, inside the casing, a laundry container (3, 6) for housing the laundry to be washed and dried, and a heat-pump-type, hot-air generator (10) able to circulate a stream of hot air inside said laundry container (3, 6), and to heat up the washing water supplied to said laundry container (3, 6); the hot-air generator (10) comprising a heat-pump assembly (21) which is provided with a first air/refrigerant heat exchanger (23) which is located along the air recirculating conduit (19) for heating us the airflow (f) directed to the laundry container (3, 6); with a second water/refrigerant heat exchanger (24) which is located out of the air recirculating conduit (19), and heats up or cools down the water arriving from the laundry container (3, 6); with a third air/water heat exchanger (25) which is located along the air recirculating conduit (19), upstream of the first air/refrigerant heat exchanger (23), for cooling the airflow (f) arriving from the laundry container (3, 6); with a water circulation circuit (26) for circulating the water stored into the laundry container (3, 6) through the second water/refrigerant heat exchanger (24) and the third air/water heat exchanger (25); and with a hydraulic distributor (28) for reversing, on command, the flow of the refrigerant along the first air/refrigerant heat exchanger (23), the refrigerant expansion device (27) and the second water/refrigerant heat exchanger (24).

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