

Title (en)
Heat pump laundry dryer

Title (de)
Wärmepumpenwäschetrockner

Title (fr)
Sèche-linge à pompe thermique

Publication
EP 2990523 B1 20170329 (EN)

Application
EP 14182924 A 20140829

Priority
EP 14182924 A 20140829

Abstract (en)
[origin: EP2990523A1] The present invention relates to a laundry dryer including: a casing, rotatably supporting a drum (3), a basement (24) defining a basement plane (X, Y) and in which a first longitudinal half (24 first half) and a second longitudinal half (24 second half) of said basement (24) are identifiable by means of a first plane (P1) perpendicular to said basement plane (X, Y) and passing through a rotational axis (R) of the drum; a heat pump system (30), being arranged in the process air conduit within said first longitudinal half of said basement; a process air conduit (18) in fluid communication with the drum, including a basement process air duct formed in said basement, comprising a basement duct portion (28) wherein an exit plane (Pex), a basement outlet plane (P19) and an intermediate plane (P3) are defined, all three perpendicular to said basement plane (X, Y) sectioning said basement duct portion (28) respectively at said condenser process air exit (28in), at said basement process air outlet (19) and in a point belonging to said first half of said basement not at said exit plane (Pex); said planes defining respectively three basement duct portion sections; wherein each basement duct section defines a vertical centerline (C) dividing each basement duct section in two halves, having respectively a first, second and third lowest points (LPO), (LPV), (LP3) of said outer halves at a vertical height respectively (A0), (AV), (A1); wherein $A0 < AV$ and $A0 < A1 < AV$.

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Citation (opposition)
Opponent : Whirlpool EMEA S.p.A.
• EP 2527528 A1 20121128 - ELECTROLUX HOME PROD CORP [BE]
• EP 1508636 A2 20050223 - LG ELECTRONICS INC [KR]
• BHATIA A.: "HVAC ducting - Principles and Fundamentals", PDH ONLINE, 2012, XP055433940

Cited by
DE102016210166A1; CN113260756A; CN113195822A; WO2020126056A1; WO2020126055A1

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