

Title (en)

HEAT PUMP TYPE WATER HEATER SYSTEM

Title (de)

WÄRMEPUMPENDURCHLAUFERHITZERSYSTEM

Title (fr)

SYSTÈME DE CHAUFFAGE D'EAU À POMPE À CHALEUR

Publication

EP 3130867 A1 20170215 (EN)

Application

EP 15180480 A 20150811

Priority

EP 15180480 A 20150811

Abstract (en)

The present invention discloses a heat pump type water heater system including a refrigerant circuit having a water/refrigerant heat exchanger for condensing a refrigerant to release heat from the refrigerant to water passing through the water/refrigerant heat exchanger; a water tank that stores water capable of passing through the water/refrigerant heat exchanger to obtain heat from the refrigerant when the refrigerant circuit is working; and a cold water reservoir that stores cold water capable of passing through the water/refrigerant heat exchanger when the refrigerant circuit is not working. In this way, cold water from the cold water reservoir in addition to the water tank passes through the water/refrigerant heat exchanger when the refrigerant circuit is not working to avoid formation of scales and/or remove scales existing in the water/refrigerant heat exchanger.

IPC 8 full level

F24H 4/04 (2006.01); **F25B 25/00** (2006.01)

CPC (source: EP)

F24H 4/04 (2013.01); **F25B 30/02** (2013.01); **F25B 2339/047** (2013.01)

Citation (search report)

- [XAI] EP 2672190 A1 20131211 - CLIVET S P A [IT]
- [XAI] EP 2860469 A1 20150415 - TNO [NL]

Cited by

CN108954912A; CN109373584A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3130867 A1 20170215; **EP 3130867 B1 20181107**; ES 2709011 T3 20190412

DOCDB simple family (application)

EP 15180480 A 20150811; ES 15180480 T 20150811