

Title (en)  
HYBRID AIR CONDITIONING AND SANITARY WATER HEATING SYSTEM

Title (de)  
HYBRIDE KLIMAANLAGE UND BRAUCHWASSERHEIZANLAGE

Title (fr)  
SYSTÈME HYBRIDE DE CLIMATISATION ET DE CHAUFFAGE D'EAU SANITAIRE

Publication  
**EP 4379266 A1 20240605 (EN)**

Application  
**EP 23208016 A 20231106**

Priority  
IT 202200024591 A 20221129

Abstract (en)  
A hybrid heating system (100) comprising a heat pump (1), a gas boiler (20), a hydraulic circuit system (40a) with an installation return duct (41) and an installation delivery duct (42) connectable to a primary water circuit (51) of a heating installation (50) of a building (60), an internal temperature probe (62), a user interface (63), an electronic control system (64) wherein the hydraulic circuit system (40a) operatively connects the heat pump (1) and the gas boiler (20) to the installation return duct (41) and the installation delivery duct (42), wherein the electronic control system (64) actuates and controls the individual and/or combined operation of the heat pump (1) and the gas boiler (20) depending on the internal temperature target value and the internal temperature detected by the internal temperature probe (62), wherein the system (100) comprises an external unit (65) positionable outside the building (60) and comprising an external unit housing (66) which accommodates the heat pump (1) and the gas boiler (20).

IPC 8 full level  
**F24D 3/08** (2006.01); **F24D 3/18** (2006.01); **F24H 1/10** (2022.01); **F24H 4/02** (2022.01); **F24H 4/04** (2006.01); **F24H 9/14** (2006.01); **F24H 15/254** (2022.01)

CPC (source: EP)  
**F24D 3/08** (2013.01); **F24D 3/18** (2013.01); **F24H 1/107** (2013.01); **F24H 4/02** (2013.01); **F24H 4/04** (2013.01); **F24H 9/148** (2013.01); **F24H 15/254** (2022.01); **F24D 2200/04** (2013.01); **F24D 2200/123** (2013.01); **F24H 15/223** (2022.01); **F24H 15/258** (2022.01)

Citation (search report)

- [IY] IT MI20112252 A1 20130614 - CALEFFI SPA
- [Y] EP 2700883 B1 20171213 - BDR THERMEA GROUP [FR]
- [I] EP 2133629 A1 20091216 - SURREL YVES [FR], et al
- [I] US 2021262708 A1 20210826 - RYU JIHYEONG [KR], et al
- [I] WO 2014002133 A1 20140103 - MITSUBISHI ELECTRIC CORP [JP], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4379266 A1 20240605**

DOCDB simple family (application)  
**EP 23208016 A 20231106**