

Title (en)  
COMBINED EQUIPMENT FOR THE CLIMATE CONTROL OF ENVIRONMENTS

Title (de)  
KOMBINIERTE AUSRÜSTUNG ZUR KLIMAKONTROLLE VON UMGEBUNGEN

Title (fr)  
ÉQUIPEMENT COMBINÉ POUR LE CONTRÔLE CLIMATIQUE D'ENVIRONNEMENTS

Publication  
**EP 3327360 A1 20180530 (EN)**

Application  
**EP 17203648 A 20171124**

Priority  
IT 201600119340 A 20161124

Abstract (en)  
Combined equipment for the climate control of environments, which comprises at least one heating plant with radiating strips provided with a containment box-shaped body (1), a burner (2) in which the combustion and the generation of combustion products take place, a circuit (5) of radiating tubes, which conveys a first carrier fluid (6) and is connected to the burner (2) to receive therein the high temperature combustion products susceptible of heating the first carrier fluid (6), a recirculation duct (7) housed in the containment box-shaped body (1), susceptible of closing the circuit (5) of radiating tubes. The combined equipment also comprises a heat pump heating plant, which is provided with a second closed circuit (9) in which a second carrier fluid (10) circulates, an evaporator (11), which is housed inside the containment body (1) and is hydraulically connected to the second closed circuit (9) to heat the second carrier fluid (10). The containment box-shaped body (1) is provided with at least one first opening (12) connected by means of a heating duct (13) to the evaporator (11) susceptible of being traversed by a first air flow (14) coming from the outside environment (E) through the first opening (12) to heat, by means of thermal convection, said first air flow (14) directed towards said evaporator (11).

IPC 8 full level  
**F24D 5/08** (2006.01); **F24D 15/02** (2006.01); **F24D 15/04** (2006.01)

CPC (source: EP)  
**F24D 5/08** (2013.01); **F24D 15/02** (2013.01); **F24D 15/04** (2013.01); **F24D 2200/04** (2013.01); **F24D 2200/123** (2013.01)

Citation (search report)  
• [A] EP 0099022 A2 19840125 - BOSCH GMBH ROBERT [DE]  
• [A] EP 2672190 A1 20131211 - CLIVET S P A [IT]  
• [A] EP 3096091 A1 20161123 - DAIKIN IND LTD [JP]  
• [A] DE 8710386 U1 19880114

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 3327360 A1 20180530**; **EP 3327360 B1 20190731**; ES 2753984 T3 20200415; IT 201600119340 A1 20180524

DOCDB simple family (application)  
**EP 17203648 A 20171124**; ES 17203648 T 20171124; IT 201600119340 A 20161124