

Title (en)

Thermodynamic unit for hot water storage tanks (DHW) and composite capacitor

Title (de)

Thermodynamische Einheit für Warmwasserspeichertanks (Brauchwarmwasser) und Verbundkondensator

Title (fr)

Unité thermodynamique pour réservoirs de stockage d'eau chaude (DHW) et condensateur composite

Publication

**EP 2735813 A3 20140903 (EN)**

Application

**EP 13382468 A 20131122**

Priority

- ES 201231244 U 20121122
- ES 201330609 U 20130520

Abstract (en)

[origin: EP2735813A2] A thermodynamic unit comprising at least: - a compressor (24), which draws out a refrigerant gas; - a liquid container (16), which stores the coolant in a liquid state; - a filter drier (17), which removes moisture from the circuit; - and an expansion element which can be a thermostatic or electronic expansion valve (18). - control and regulation means which further comprises a capacitor, wherein the refrigerant gas which condenses with the flowing water due to heat exchange is inserted, which may be located inside or outside the thermodynamic unit, in which case it would be a composite capacitor, which, in addition to the medium of heat exchange between a fluid and the water, it comprises an electrical resistor and a sheath to house a temperature probe. The unit may have an evaporator housed on the inside, or may be connected to one or several direct expansion solar collectors.

IPC 8 full level

**F24H 4/04** (2006.01); **F25B 1/00** (2006.01)

CPC (source: EP)

**F24H 4/04** (2013.01); **F25B 27/005** (2013.01); **F25B 2339/047** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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