

Title (en)
CONDENSER HEATSINK

Title (de)
KONDENSATORWÄRMESENKE

Title (fr)
PUITS DE CHALEUR CONDENSATEUR

Publication
EP 2167888 A1 20100331 (EN)

Application
EP 08750669 A 20080522

Priority

- GB 2008001746 W 20080522
- GB 0709739 A 20070522
- GB 0709748 A 20070522
- GB 0805661 A 20080328

Abstract (en)
[origin: GB2449522A] A temperature controlled equipment cabinet comprises a diffusion-absorption refrigeration system 5. An evaporator pipe 4 of the refrigeration system extends through a wall 9 of the cabinet and passes through a sealed enclosure 3 which contains a heat transfer liquid 12. The sealed enclosure extends across and forms part of an internal surface 15 of the cabinet such that the refrigeration system in use extracts heat from within the cabinet to an external environment 7. The sealed enclosure is preferably configured to provide a thermosyphon convective flow effect to improve the distribution of cooling throughout the enclosure and to aid heat transfer from within the cabinet. The enclosure may have one or more filling points for introducing the heat transfer liquid. Preferably, the wall of the cabinet comprises a layer of thermal insulation 10 through which the evaporator pipe extends. The evaporator pipe may also pass through a recess 14 provided in the wall. The enclosure may be attached to the insulation by way of welding, gluing or other mechanical fixings 2a, 2b. Preferably, the enclosure is planar in construction across the internal surface of the wall. The refrigeration system may be used to cool temperature-sensitive electrical and electronic equipment, such as standby and backup batteries, housed within the temperature controlled cabinet.

IPC 8 full level
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