

ABSTRACT**SYSTEM FOR THERMALLY CONTROLLING AN APPARATUS**

A system for cooling items of equipment likely to give off energy, characterized in that it comprises at least the following elements:

an enclosure (3) comprising a membrane (4) that is porous to water vapor and sealed to liquid water, said membrane separating the cavity into a first portion (5) designed to contain a fluid consisting of water and vapor, a second portion (6) designed to contain the vapor resulting from the vaporization of the water,

a temperature sensor (7) suitable for measuring the temperature of the liquid-vapor fluid contained in the cavity (5),

a device (8) that will make it possible to discharge the vapor from the cavity (6) into the environment creating a vacuum in this cavity (6) and breaking the natural liquid/vapor balance of the cavity (5) containing the liquid, thus causing a vaporization of a portion of the liquid,

a means for controlling the flow rate of the vapor discharged to the outside of the cavity, said control means is regulated on the signal delivered by the temperature sensor (7).

Figure 2 to be published.



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