

Title (en)
Anti-freeze protection device for chillers

Title (de)
Frostschutzvorrichtung für Kältegerät

Title (fr)
Dispositif de protection anti-givre pour un système de réfrigération

Publication
EP 1726895 A1 20061129 (EN)

Application
EP 05425467 A 20050630

Priority
IT PD20050160 A 20050527

Abstract (en)
The invention is a new anti-freeze protection device for chillers, comprising an electric/electronic control circuit (3) connected to ice sensors (1) and local heaters (2). The sensors (1) and heaters (2) are applied and positioned in the areas where ice is most likely to form and/or in which ice causes the greatest reduction in chiller efficiency. In the event of formation of ice, the sensors indicate its presence to the electric/electronic circuit (3) which suspends operation of the chiller, adjusts opening and closing of the expansion valves (4) located at the evaporator inlet, or suspends operation of the chiller compressor only, and if necessary operates the heaters (2), thus melting the ice into water which is removed by the known means (C) used for removing condensate.

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