

Title (en)
CHILLER

Title (de)
KÜHLER

Title (fr)
REFROIDISSEUR D'EAU

Publication
EP 2541164 A1 20130102 (EN)

Application
EP 10846689 A 20100610

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Abstract (en)
According to the present invention, a chiller comprises: a compressor configured to compress a refrigerant; a condenser configured to condense the refrigerant compressed by the compressor; an expander configured to expand the refrigerant condensed by the condenser; and an evaporator in which the refrigerant expanded by the expander cools cold water. The evaporator comprises: a shell comprising a space therein through which the refrigerant passes; an inner tube through which cold water passes and disposed such that the cold water exchanges heat with the refrigerant; and an oil overflow member disposed in the shell and defining an oil passage between the oil overflow member and the shell such that the oil overflow into the oil passage and then flows toward a lower inner portion of the shell along the oil passage. Since the maximum height of oil in the shell can be controlled, a gaseous refrigerant can be quickly absorbed into the compressor to prevent deterioration in performance stemming from an excessive height of an oil foaming layer.

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