

Title (en)

Method for determining the performance of a cooling machine

Title (de)

Verfahren zur Bestimmung der Leistungszahl einer Kältemaschine

Title (fr)

Procédé de détermination du facteur de puissance d'une machine frigorifique

Publication

**EP 2196740 B1 20141029 (DE)**

Application

**EP 09014744 A 20091126**

Priority

DE 102008061631 A 20081211

Abstract (en)

[origin: EP2196740A2] The method involves determining refrigerant temperatures (T1-T3) in an inlet region of a compressor (14) and outlet regions of a condenser (16) and an expansion valve (18) using temperature sensors (28, 30, 32) arranged in a closed loop (10), respectively. Enthalpies of the closed loop are calculated from the determined temperatures. Heat energy and electrical energy of cooling machine are calculated from difference of calculated enthalpies. A coefficient of performance of the cooling machine is determined from quotient of the calculated heating and electrical energies. An independent claim is also included for a cooling machine comprising an evaluation device.

IPC 8 full level

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CPC (source: EP US)

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**F25B 2700/21151** (2013.01 - EP US); **F25B 2700/21152** (2013.01 - EP US); **F25B 2700/21163** (2013.01 - EP US);  
**F25B 2700/21174** (2013.01 - EP US)

Cited by

CN110741212A; CN109140678A; CN107328048A; DE102019135437A1; DE102019135437B4

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DOCDB simple family (publication)

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DOCDB simple family (application)

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