

Title (en)  
FLASH DEFROST SYSTEM

Title (de)  
BLITZABTAUSYSTEM

Title (fr)  
SYSTÈME DE DÉGIVRAGE ÉCLAIR

Publication  
**EP 2673578 A2 20131218 (EN)**

Application  
**EP 12709685 A 20120210**

Priority  
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Abstract (en)  
[origin: GB2487975A] A vapour compression refrigeration system has a fluid circuit which includes a compressor 1, a condenser 2, an expansion device 4 and an evaporator 5, all through which a refrigerant is circulated. The circuit further includes a defrost receiver 6 for receiving hot refrigerant which is used to provide defrosting of the evaporator by connecting the receiver to the evaporator via a defrost circuit and valve arrangement 9, 10. Prior to the defrost procedure, the circuit permits the compressor to at least partially evacuate the evaporator before the evaporator is connected to the defrost receiver. The defrost receiver may include a thermal store, such as a phase change material 11. Alternatively, the defrost receiver may be in thermal communication with a fluid-to-fluid heat exchanger (15 fig 4) which is provided with heat storage fluid from a reservoir (17 fig 4). The partial evacuation process ensures that flash flooding of the evaporator with hot vapour occurs and reduces the time period for defrosting.

IPC 8 full level  
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