

Title (en)
Hot gas defrosting of refrigeration plants

Title (de)
Heissgasabtau für Kälteanlagen

Title (fr)
Dégivrage par gaz chaud pour installations frigorifiques

Publication
EP 1422487 A2 20040526 (EN)

Application
EP 03026471 A 20031120

Priority
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Abstract (en)
In refrigeration systems using CO₂ as effective refrigerant there are severe problems with respect to defrosting in freezer equipments calling for operative defrosting, e.g. in plate freezer units in fishing vessels. The invention provides for a refrigeration plant comprising at least one compressor unit (12), which compressor unit (12) is delivering compressed refrigerant to at least one condenser (14), from which condenser liquid refrigerant is led to at least one evaporator (8) through at least one restriction element, where the compressor is connected to the evaporator, and where a defroster circuit (56) is arranged for selectively supplying hot refrigerant to said evaporator equipment (8) for defrosting purposes, whereby at least one compressor unit (12) comprises at least a first compressor section (52) and a second compressor section (54), which first and second compressor sections (52,54) are operating in serial connection during defrost, where the first and second compressor sections (52,54) are operating in parallel during normal operation, where the pressure outlet of the second compressor section (54) during defrost is connected to a gas pipe connection (56) which is connected to a refrigerant channel system of said evaporator equipment (8).

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Citation (applicant)
• DK 2001000310 A
• US 4962647 A 19901016 - KUWAHARA EIJI [JP]

Cited by
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