

Title (en)  
COLD CIRCUIT

Title (de)  
KÄLTE-KREISLAUF

Title (fr)  
CIRCUIT FRIGORIFIQUE

Publication  
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Application  
**EP 06707479 A 20060308**

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Abstract (en)  
[origin: WO2006097229A1] The invention relates to a cold circuit (1) comprising a compressor (2), a gas cooler (3), an internal heat exchanger (4), an expansion element (5), an evaporator (6) and, optionally, an accumulator (7). The accumulator (7) is arranged in the low pressure part of the cold circuit (1). The average density of the coolant in the cold circuit (1) has a maximum of  $260 \text{ kg/m}^3 \pm 10\%$ . The volume of the accumulator (7) is obtained, preferably, approximately by the formula  $V_{\text{Akku}} = [m_{\text{Leckage}} - V_{\text{KKL}}] / (\rho_{\text{max}} - \rho_{\text{min}})$

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