

Title (en)
REFRIGERATION COMPRESSOR

Title (de)
KÄLTEMITTELKOMPRESSOR

Title (fr)
COMPRESSEUR DE FLUIDE FRIGORIGENE

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Application
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Abstract (en)
[origin: WO2006103278A1] The invention relates to a hermetically encapsulated refrigeration compressor comprising a hermetically sealed compressor housing containing a piston-cylinder unit compressing a refrigerating agent. The cylinder (1) is closed by means of a valve plate (2) comprising a pressure borehole (10) and a suction borehole (16), and a suction channel and a pressure channel are used to suck the refrigerating agent into the suction borehole (16) by means of a suction valve, and to compress said refrigerating agent passing from the pressure borehole (10) into the pressure channel by means of a pressure valve (15). Preferably, a suction sound absorber (3) is arranged in the suction channel. The aim of the invention is to create one such refrigeration compressor that enables a significant decrease in the suction temperature and the exhaust temperature. To this end, the pressure channel is formed by a component (8) that surrounds the entire pressure channel and is connected to the valve plate (2) in a sealed manner along a pressure contact edge (13) formed by an end section of the component (8). The pressure borehole (10) and the mobile part of the pressure valve (15) are arranged inside the surface surrounded by the pressure contact edge (13).

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