

Title (en)

SUCTION SILENCER SYSTEM FOR A REFRIGERATION COMPRESSOR

Title (de)

ANSAUGGERÄUSCHDÄMPFERSYSTEM FÜR MOTORKÜHLVERDICHTER

Title (fr)

SYSTEME DE SILENCIEUX D'ASPIRATION POUR MOTOCOMPRESSEUR DE REFRIGERATION

Publication

**EP 0890026 B1 20011128 (FR)**

Application

**EP 97916494 A 19970325**

Priority

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Abstract (en)

[origin: WO9737130A1] A suction silencer system for a refrigeration compressor is disclosed, the system includes a suction silencer (3, 4) consisting of a body (4) divided by a partition (40) into two chambers coupled together via a coupling tube (42), and a cover (3) with a loading tube (30) for feeding a coolant gas into the first chamber, and an inlet pipe (31) for connecting the second chamber to the suction portion of the cylinder head (5). The volume ratio is determined in such a way that the acoustic energy is attenuated at a frequency of around 500 Hz. A chamber (10) connected in parallel on the suction path is also used as a resonator to improve attenuation in the acoustic spectrum. The system is particularly useful in reciprocal, single-cylinder, hermetic and low-power compressors.

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