

Title (en)  
SCREW ROTOR COMPRESSOR AND REFRIGERATION PLANT

Publication  
**EP 0245427 B1 19891004 (EN)**

Application  
**EP 86906989 A 19861114**

Priority  
GB 8528211 A 19851115

Abstract (en)  
[origin: WO8703048A1] A screw compressor, especially adapted for use in conjunction with a refrigeration plant. The compressor comprises a casing with a working space generally composed of intersecting bores with parallel axes provided with spaced apart inlet and outlet ports, and a pair of intermeshing male and female rotors, each having helical lands and intervening grooves. The compressor is provided with capacity control means comprising a bleed port and a valve member having an axially displaceable control edge defining the actual size of the port and means for additional supply of working fluid at a pressure higher than the normal inlet pressure. The capacity control means is situated peripherally out of the outlet port, and the additional supply means comprises a port within the capacity control valve located at an axial distance from the control edge at least corresponding to the axial distance between two consecutive lands of the facing rotor. The compressor is further provided with separate means for selective adjustment of the outlet port.

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**F04C 18/16**

IPC 8 full level  
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