

Title (en)
ROTARY COMPRESSORS

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Application
EP 81902040 A 19810724

Priority
GB 8025019 A 19800731

Abstract (en)
[origin: GB2081383A] A sliding vane eccentric rotor oil mist compressor has a rotor stator unit (6, 4) within a compressor casing (2). In use, oil is injected into the compression space within the stator and is subsequently removed from the compressed air in two stages. The first stage is constituted by an impingement shield (10) around the stator and the secondary stage by two coalescing elements (16) within a separate separator casing (14). Coalesced oil that accumulates within the separator casing is returned to the rotor stator unit for reuse under the action of a pressure differential produced by the compressor through an oil return passage (30, 32, 36, 44) incorporating a restricting orifice (42). The passage (44) communicates with the compression space at a point where the pressure is substantially above atmospheric and not with the compressor inlet. The oil return pressure differential is therefore smaller than normal which permits the orifice (42) to be larger than normal thus reducing its tendency to become clogged.

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