

Title (en)
OIL-LUBRICATED ROTARY VANE VACUUM PUMP

Title (de)
ÖLGESCHMIERTE DREHSCHIEBER-VAKUUMPUMPE

Title (fr)
POMPE À VIDE À TIROIR ROTATIF LUBRIFIÉE À L'HUILE

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Abstract (en)
[origin: WO2018007443A1] The invention relates to an oil-lubricated rotary vane vacuum pump (1) comprising a rotary vane unit (2) that includes a rotary vane chamber (5) and a rotary vane rotor (6), the vacuum pump further comprising an oil separation and reprocessing device (3) in which oil and gas that have penetrated into the rotary vane unit (2) are separated by a separation device (T1, T2) preferably formed by a filter element and/or a gravitational and/or impact separator (24) and/or a fine particle separator (25), preferably along with an oil foam decomposition device and/or with an oil cooler and/or with an oil pump; one or more monitoring and/or maintenance devices (37) are provided for said devices, and the oil separation and reprocessing device (3) is accommodated in an oil separation and reprocessing housing (13) that includes side walls (14, 15), a base (16), a top (17) and face walls (18, 19), the side walls (14, 15) extending transversely to a plane of rotation of the rotary vane rotor (6) and defining a longitudinal direction of the oil separation and reprocessing housing (13). In order to improve a rotary vane vacuum pump of said type in particular in respect of the oil separation process while providing the vacuum pump with a design that is favorable for handling and/or maintenance and/or manufacturing purposes, the gas successively flows through two separation devices (T1, T2) within the oil separation and reprocessing housing (13), and said two separation devices are both accessible for maintenance from a face wall (18).

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