

Vacuum pumps

Pump ranges

These operating instructions concern the following oil flooded rotary vane vacuum pumps: VC 200 and VC 300. The nominal vacuum capacities at atmosphere are 200 and 300 m³/hr operating on 50 cycles. The pumping curves showing capacity against vacuum can be seen in data sheet D 232.

Description

VC 200 and VC 300 vacuum pumps are fitted with a mesh filter on the pump inlet. The vacuum pump is enclosed in a sound box. On the exhaust side of the pump an oil mist eliminator is fitted which has the function of re-circulating oil back into the circulation system, as well as providing high efficiency separation on the pump exhaust. Situated between the pump housing and the motor, a high efficiency cooling fan pulls cooling air in through the fan cover. A further fan inside of the oil cooler results in the cooling of the re-circulating oil.

A standard built-in non return valve on the inlet of the pump seals the pump from the process when the pump is stopped. When downtimes of over two minutes, the connected pipe should be aerated on atmospheric pressure.

The gas ballast valve which is fitted as standard invoids any condensation of a small amount of water vapour inside the pump and hence emulsification of the oil. The gas ballast vapour handling capacity can be increased if required to tolerate higher vapour loads than normal.

All the pumps are driven by a direct flanged three phase, standard TIEFV motor via a pin and bush coupling.

Optional extras: The following standard optional extras can be supplied if required: Vacuum regulating valve (ZRV), additional non return valve (ZNRV), dust inlet filter (ZDF), high vacuum suction filter (ZVF), direct on line (DOL) motor starter (ZMS), softstarter (ZAD) and various vacuum gauges.

Suitability

The units VC are suitable for the use in the industrial field i.e. the protection equipments corresponds to DIN EN 294 table 4, for people aged 14 and above.

The ultimate vacuum can be user selected at either 0.5 mbar (abs.) for fine vacuum or 10 mbar (abs.) for coarse vacuum (see adjusting bolt (X)).

These models can be used for the evacuation of a closed system or for a permanent vacuum from:

Fine vacuum → 0.5 to 100 mbar (abs.) • Coarse vacuum → 10 to 500 mbar (abs.)

When these pumps are operated permanently outside the ranges listed above there may be oil seepage at the exhaust port. For evacuation of closed systems the volume to be evacuated must not exceed 2% of the nominal capacity of the vacuum pump.

Amounts of water vapour may be handled. Water, other liquids, aggressive or inflammable gases and vapours may not be handled. For water vapour tolerance, see information I 200.

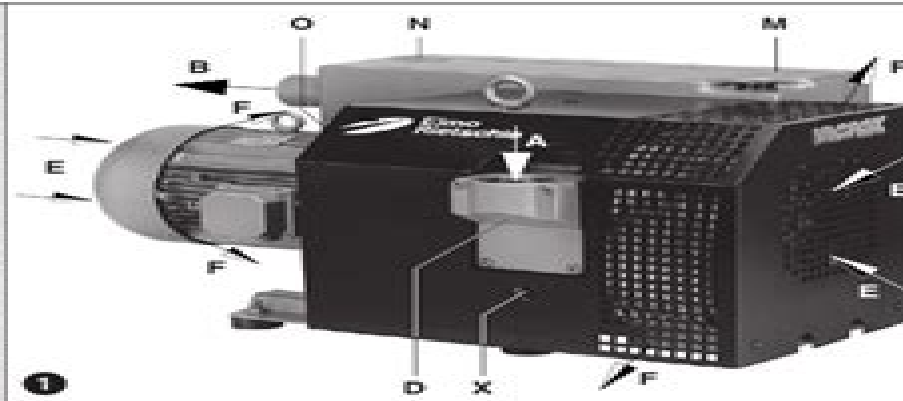
Handling of inflammable or aggressive gases and vapours is only possible with special versions, if the safety instructions XE 2 are noted.

The ambient and suction temperatures must be between 5 and 40°C. For temperatures outside this range please contact your supplier.

The standard versions may not be used in hazardous areas.

The back pressure on the exhaust port must not exceed + 0.1 bar.

All applications where an unplanned shut down of the vacuum pump could possibly cause harm to persons or installations, then the corresponding safety backup system must be installed.



Rietschle Vacuum Pump Manual

M Carnoy



Rietschle Vacuum Pump Manual:

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