



APPLICATION REPORT WASTEWATER AND SOUR WATER

Canned Motor Pumps for Wastewater and Sour Water

Large quantities of wastewater and sour water (sulfur-containing wastewater) are generated daily in the chemical industry – particularly in processes such as crude oil processing, ammonia synthesis, or the production of intermediate products. These fluids often contain toxic, corrosive, or explosive components such as hydrogen sulfide (H_2S), ammonia, or organic residues. Safe and emission-free handling of these media is therefore not only required by law, but also essential from an economic and ecological perspective.

Your benefits

- Low life cycle costs
- Compact design
- ATEX certification
- High chemical resistance
- No mechanical seals

Applications areas

- Crude oil processing
- Ammonia synthesis
- Production of intermediate products



Reliable solution

Canned motor pumps offer a particularly reliable solution here. They are hermetically sealed and operate without dynamic seals, thus preventing leaks and emissions – a decisive advantage when pumping hazardous liquids. The HERMETIC V-Line is specifically designed for such applications: It combines a compact design, high chemical resistance, and ATEX certification with a standardized, cost-effective design.

Safe, low-maintenance, and economical pumping

The number of applications for sour and wastewater pumps is constantly growing – not only due to stricter environmental regulations, but also due to the trend towards a circular economy and resource efficiency. The V-Line enables the safe, low-maintenance, and economical pumping of these media – both in central wastewater treatment plants and decentralized process modules.

Future-proof solution

With its modular design, short delivery times, and high operational reliability, the V-Line is a future-proof solution for the growing demands of industrial wastewater management.

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|------------------------|-------------------------------------|
| Sector: | Chemical |
| Application: | Removal of contaminated water |
| Medium: | Wastewater |
| Flow rate: | 30 m ³ /h |
| Head: | 96 m |
| Operating temperature: | +40 °C |
| Critical: | Toxic liquids, explosion protection |
| Pump: | CN 80-50-250 |
| Motor: | N74N-2 |
| Pump type: | Single-stage canned motor pump |
| Special feature: | Standard V-Line design |

More information >>



HERMETIC-Pumpen GmbH

HERMETIC-Pumpen GmbH is a world-wide leading developer and manufacturer of hermetic pumping technologies. As a canned motor pump specialist, HERMETIC has gained a reputation world-wide for safe and durable pumps – for the most extreme areas of application and most hazardous pumped media. HERMETIC canned motor pumps are suitable for fluid temperatures ranging from -160°C up to $+480^{\circ}\text{C}$ and system pressures up to 120 MPa. With power outputs from 1 kW to 690 kW, HERMETIC offers canned motor pumps with the largest capacities on the market.

HERMETIC employs around 440 people at its headquarters in Germany and has subsidiaries in China and the USA. In conjunction with a world-wide service and contract partner network, the company offers reliable customer service over the entire life cycle of a system.

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