

Everything clarified in Kaiserslautern

WANGEN KL65RUE important component in a German energy-neutral waste water treatment plant

Stadtentwässerung Kaiserslautern, the Kaiserslautern urban waste water management facility, reliably pumps valuable sewage sludge with a high dry matter content using the high-performance hopper feed pump KL-RUE supplied by [WANGEN PUMPEN](#).



Installation of the pump in the system

The purification of waste water is a technically complex process and the sewage treatment plants are therefore usually some of a municipality's largest consumers of electricity. The example of the Kaiserslautern urban waste water management facility, an entity under public law, shows that it is possible to do things differently: after ten years of continuous energy optimisation and rebuilding measures, the energy-neutral sewage treatment plant has become a reality in the city.

The updated system features two high-performance hopper feed pumps type KL-RUE supplied by WANGEN. These pumps reliably pump the dewatered sewage sludge with a dry matter content of 25 to 28% into the storage silos in an energy-saving manner. From there, the sludge is then loaded onto trucks and transported away for thermal recovery

Two satisfied customers at once

“We got a recommendation from a neighbouring clarification plant and then visited WANGEN PUMPEN at a trade fair,” reports Christian Forgheim, Plant Manager of the Kaiserslautern sewage treatment plant. The pumps we have used up to now have always caused problems, particularly due to their long design, high energy consumption, and longer downtimes during repairs. When one of the pumps had to be overhauled, the decision-makers opted instead to replace it, and purchase a new WANGEN PUMPEN model. The rotor and stator were renewed at the same time on the second pump, so that the operator could compare both types of pump with each other. The result showed the clear benefits of the WANGEN PUMP – two years later, the second pump was also replaced by a Wangen high-performance hopper feed pump.

The challenge: identical performance with fewer downtimes

The seamless maintenance of the pump is an important criterion for the use of the WANGEN pumps in Kaiserslautern. The KL-RUE high-performance hopper feed pump meets this requirement, but also shortens downtimes due to the built-in quick-change unit (stator/rotor). “In the past, the pump was often unavailable for several days during maintenance work. The quick-change unit means that the pump is available again on the same day,” continues Christian Forgheim.

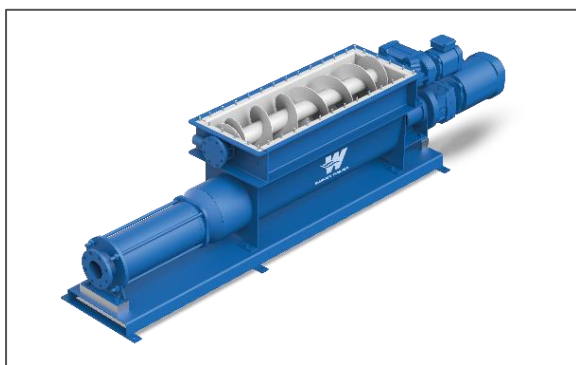


To summarise: The high-performance and durable WANGEN PUMPEN product range is ideally suited for typical applications in sewage treatment plants. WANGEN’s KL65RUE 101.2 high-performance hopper feed pump impresses in Kaiserslautern from an energy-saving point of view and in terms of its availability and maintenance-friendly design. WANGEN PUMPS also triumph when used with abrasive and very fibrous sludge material due to their low wear, thus contributing to the trouble-free operation of the system.

Technical data

[KL-RUE high-performance hopper feed pumps](#) are ideal for pumping dewatered sewage sludge with a high dry matter content of up to 45%, with a design based on a modular principle. This provides for maximum versatility and minimal stocking of spare parts.

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- Capacity: 0 to 150 m³/h
- Differential pressure up to 48 bar
- Up to 45% dry matter content
- Free passage of up to 150 mm
- Continuous sludge feed
- Durable cardan joint with screw conveyor
- Proven sealing systems
- Winding protection device to prevent fibres becoming wrapped around the joint