

Using *BMT-Technology* even in sensitive areas

The **Städtische Krankenhaus Nettetal** depends on safe *BMT-technology* for grey water usage, consequently reducing its fresh water requirement to about 350 m³ per year.



The modern Städtische Krankenhaus Nettetal was created in 1970 by the merger of the Lambertus and Marien hospitals.

The Städtische Krankenhaus Nettetal is a clinic providing primary and regular health care on the left side of the Lower Rhine with a nationwide circle of referring physicians. The resident doctors provide the medical care for approx. 50,000 residents. A well-equipped hospital with state-of-the-art equipment and high-quality medical care by qualified doctors and nursing staff and appropriate structures is provided for this.

As part of the various modernisation and renovation projects, a completely new building wing was completed at the end of January 2009. Despite the sensitive areas, the decision was made to install a GEP grey water system. Decisive for this decision by the hospital administration is the convincing and safe *BMT-technology* by GEP which is used. This abbreviation stands for the term, *BioMembranTechnologie*. This is the terms used to describe the current state-of-the-art treatment technology in grey water usage. In comparison to other treatment procedures, a permanent physical barrier is used with GEP, which provides sterile process water completely reliably and at any time. This is

ensured by the high-quality immersed membrane filter, which provides clear, sterile process water using purely mechanical channels, with an equivalent pore width of just 50 nm, even in the case of a power outage or inefficient biological grey water treatment.



The space-saving GEP grey water unit in the Krankenhaus Nettetal takes up a mere 4.5 m².

Since February 2009, the system has been up and running without any problems and provides hygienic, safe process water, which clearly fulfils the quality requirements of the EU Bathing Water Directive and those of the DIN 19650 Class 2. This is confirmed by an independent findings report by the responsible Corporation for Hygiene Consulting at the end of March 2009.

Project	Städtisches Krankenhaus Nettetal
Client	Städtisches Krankenhaus Nettetal GmbH Sassenfelder Kirchweg 1 41334 Nettetal
Product	GEP-Wassermanager GWA 2 incl. Pressure increasing unit
Treatment performance	max 2.200 litres/day
Energy consumption:	2.8 kWh/m ³ process water