

Rittal – Case Study



Excellent climate for blood analysis



When it comes to the diagnosis of diseases like HIV, Hepatitis, Malaria or other immune mediated diseases, a reliable analysis of blood samples is crucial. Accordingly, the requirements for the systems which are being used to analyse the blood samples, are pretty high in respect to reliability and compliance with the parameters in question. With 25 years of experience, **STRATEC Biomedical Systems AG**, based in Birkenfeld, is the technological leader concerning integrated fully-automated analysis systems. These

systems are being developed and produced for partners from industries such as diagnostics and biotechnology. Through these partners, the systems are being sold to the end users which are laboratories, blood banks and research institutes. Thanks to the development of platform "4-PS" (4-plates system) by STRATEC, a very broad spectrum of EIA-testing systems (Enzyme-Immuno-Assay) based on microplates can be processed. All processes which normally require intense manual work, are fully automatic, starting with the distribution of the patients sample, right through to the analysis of the measurement results. Temperature is the most crucial factor for the quality of measurement results. As the testing system relies on enzymatic reactions which can be influenced by temperature, results of the tests can be subject to high tem-

peratures occurring in the interior of the testing equipment. Further, some reagents will lose their activity when exposed to high temperatures, which will also falsify testing results. To solve the problem, Rittal and STRATEC developed a climate control unit. With a supply air temperature of 22°C, the unit ensures that a temperature between 20°-25°C can be guaranteed inside the testing system. The cooling unit can be added supplementary and disposes of an independent power supply. Thanks to a special additional acoustic insulation cover, a low noise level and, therefore, a good work comfort can be preserved. As a result, a constant temperature of the samples can be assured, being the basis for reliable diagnoses.

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