

Industrial scale fluidic experimental plants

Industrial systems consist of various components that are often in separate locations. The individual modules are made up of various components in which the various work processes run. Here, one process may influence both the following and the preceding operations.

Interactions between the individual work processes affect the overall system. This effect occurs in all real, industrial plants. Studying the individual components alone does not reflect reality. Measuring results are not representative of an entire plant if the aspect of the interplay between the individual components and their interaction is not considered.

GUNT offers a range of large-scale equipment. GUNT's development team has paid attention to the mutual impact and influence of the processes on individual components when planning and designing the equipment. This means that the GUNT equipment can be used to conduct practical investigations and experiments with realistic measuring results.

Practical relevance is further enhanced by the use of industrial components and measurement techniques.

Advantages of large-scale equipment

- highly relevant to practice thanks to the use of industrial components and measurement techniques
- large experimental plants allow precise measurements with realistic values: small model plants often give contradictory results that have to be corrected due to disproportionately increasing losses



Complex technical systems from industry

Air duct system in an office complex



Complex technical systems from the GUNT range



Pump station in Achau, Germany



HL 962 Assembly stand for pumps



Axial-flow turbomachine by Sulzer Innotec



HM 405 Axial-flow turbomachines



Wastewater engineering in a large building



ST 510 Full-scale sewerage system



GUNT offers a range of large-scale equipment. The didactic concept of the experimental plants covers the following topics in order to offer practical training:

Familiarisation with complex plant systems

- interaction of the individual components in the overall system
- consequences of interactions between the individual work processes

Design of complex plant systems

- learn about planning, design and assembly of a large technical plant
- plan and practise maintenance
- functional tests and operational measurements
- apply technical competence and basic knowledge

Application of metrology

- recording measured values for a comparison of theory and practice
- all sensors are components from industry