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Production Plants with Microreaction Technology

Microreactors become more and more accepted as tools for chemical production. The microreactor with the maybe largest throughput in production use has been started up in June 2005. The reactor rated by Microinnova has a capacity of 3 tons per hour. The fields of application are optimization of existing plants as well as new production plants. Payback periods of less than a year are possible in projects due to yield and capacity increase. Furthermore microreaction technology is used for production processes where safety is an issue. Microinnova Engineering GmbH is specialized on the basic engineering of continuous microreactor production plants.

In our laboratory we can develop and optimize the production process on a continuous laboratory scale plant, which is a cost and time saving method to find the optimal process parameters. Even start-up and accident procedures can already be tested on the laboratory scale plant.

Based on the results from the laboratory, the basic engineering of the production plant can be done easily, taking advantage of the fact that there are almost no scale up effects in microreaction technology. A special focus is given to the dimensioning of the microreactor, which is usually the core of the plant. cGMP compliant design of the production plant is an option that our clients from pharmaceutical industry appreciate. For the plant construction we have industrial partners which can realize the production plant in cooperation with Microinnova.

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