

Fluidised bed system WS-CT-L for laboratories

Development of Powders and Granulates



Batch

- drying
- cooling
- coating
- agglomeration
- granulation

of powders, granulates,
pellets,
in the

- pharmaceutical
- foodstuff
- cosmetic and
- chemical

industries



Complete laboratory system for fluidised-bed processes.

The ALLGAIER laboratory fluidised-bed system is designed to meet our customer's special laboratory and small production requirements. Completely equipped and assembled ready for use, this system permits the ideal conditions of a fluidised bed with respect to the exchange of heat and materials to be utilised on a laboratory scale.

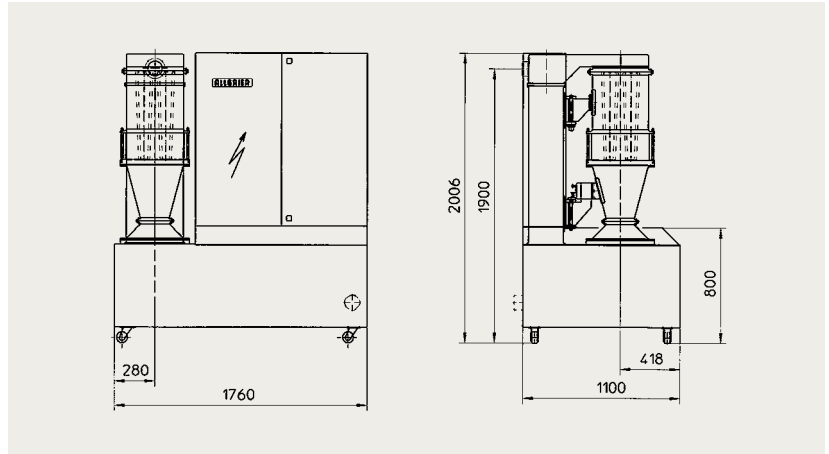
Easy handling

A large glass cover which extends all round the process chamber permits excellent observation of the processing in the fluidised-bed. The whole process chamber, in the form of a product container, can be tilted and is easily removed for cleaning. Various, easily exchanged gas distribution plates permit variation and optimisation of the specific process conditions. ALLGAIER will make their experience available and also assist you in the development work for subsequent scale-up operations.

Wide range of control and regulation functions

The temperature, the air flow rates and the pressure are controlled by an PLC. A PC-based process visualisation system provides further control and recording facilities, such as:

- automatic limiting of the drying time and temperature
- definition of various limit values for automatic termination of the process
- safety monitoring
- rapid switching to the cooling mode, bypassing the air heater
- saving and retrieval of recipes
- recording of measured values
- automatic runs of recipes records



Container volumes of 24, 31, 35 and 45 l allow processing of batches with volumes of 0,5 l - 25 l.

Clean exhaust air secured

The inlet fan and an electric heater, together with all piping, are integrated into the housing of the laboratory fluidised-bed system. High-quality filters clean the exhaust air to comply with the applicable regulations. Depending on the application, PTFE-coated filter cartridges, stainless-steel filters or disposable filter cartridges are available for this.

If special requirements exist for the quality of the inlet air, optional modules for drying, cooling or microfiltration can be fitted, as well as elements for operations with inert gas.

Modules for recovery of solvents are also available on demand.

These airtreatment modules can, if desired, be installed in a separate equipment room (grey room).

Options:

- Dosing pump for spray injection of liquids for granulation and coating
- Pneumatic emptying of the product container
- Additional, separate product containers
- Services for the validation of pharmaceutical processes and creation of the related documentation
- Closed loop process gas guiding with condensation and optional inertisation
- ATEX-conform execution possible for dust explosion protection
- additional equipment for coating of particles according to the WURSTER process

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