

# Filter dryer Wega

KASAGWega®

Wega® filter dryers are advanced pressure strainers with integrated agitator which can be swivelled in different operating positions. The filter dryer is designed as vacuum dryer with a vessel and filter base that can be heated and cooled, and can be used for the processes of reaction, precipitation, crystallisation, filtration, washing, drying and discharge.



## Benefits of the Wega® filter dryer

- Perfectly suitable for the production of sterile pharmaceuticals in GMP-compliant batch operation
- Closed system without product transport between the different process steps
- The personnel and the environment are not endangered by toxic substances and solvents
- Short drying periods and consistent product quality through intensive mixing and sufficiently dimensioned heating surfaces, including additional improvement of the drying performance by a heatable agitator
- No product transport between the different process steps
- CIP and SIP in the closed system
- Materials: Austenitic stainless steel (1.4307, 1.4571, ...), fully austenitic stainless steel (1.4539, 1.4828, ...), duplex (1.4462, 1.4410, ...), NiCrFeMo alloys with Ni > 40% (Inconel, Hastelloy, ...)

## Technical details

The Wega® filter dryers are designed in two basic versions, according to their field of application.

### Wega® chemical version

A robust design, in spite of numerous system advantages an economic solution, also for products of a lower quality.

### Wega® PHARMACEUTICAL VERSION

An advancement for the production of substances of the highest standard.

Design sizes	EFT 60 to EFT 250
Filter surface	0.27 m <sup>2</sup> to 4.7 m <sup>2</sup>
Effective volume	225 l to 9'200 l
Solid volume	13.5 l to 2'830 l

## Design variants

- Pressure- and vacuum-tight vessel stored in a 2-column frame
- Swivel movement via self-locking worm gear
- Permanently installed cables between the vessel and hose reel for supply and discharge lines
- Stationary vacuum connection on the shaft feedthrough
- Separate control panel with integrated hydraulic unit
- Vessel can be heated and cooled
- Master coil for uniform temperature distribution
- Inputs and outputs with bottom valve
- Lowerable and extendable base valve
- Agitator with double shaft seal

## Our certifications / manufacturer approvals

ISO 9001 / ISO 3834-2

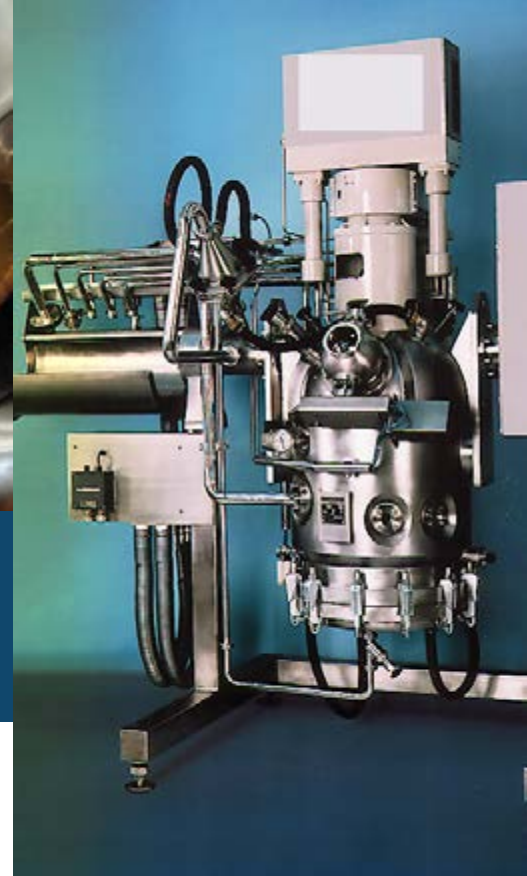
PED (EN13445 / AD-2000)

ASME (U-Stamp, Code Section VIII Div. 1)

China Stamp (A1), China License

TP TC 032/2013 (EAC), Customs Union

In addition to our existing manufacturing approvals, we are able to perform the respective approval procedures for almost every country around the world (e.g. Singapore, Japan, Malaysia, Canada, etc.).



## The combination of different processes in one system

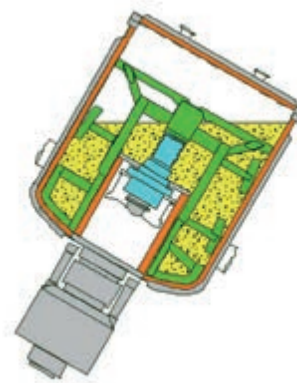
### Wega® filter dryer

#### Application

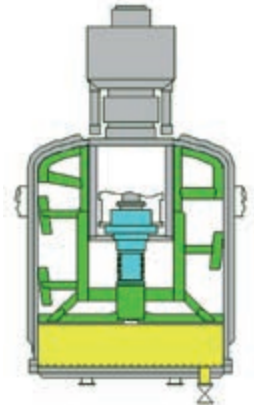
Separation and drying of solids from precipitation or crystallisation processes. Crystalline or analogous base products with a grain size  $> 5 \mu\text{m}$ , amorphous or mucilaginous substances  $> 100 \mu\text{m}$ , granulated or granular end products. Average filtration times between 0.5–1.0 h at cake thicknesses of 250 mm, filter cake heights not  $< 100 \text{ mm}$ . In addition to separation and drying, several products provide the possibility of including additional process steps such as precipitation, distillation, extraction, granulation and microencapsulation. Substances and auxiliary materials for production such as solvents with the following properties are processed: Toxic, oxidisable, sterile, thermolabile, flammable, hygroscopic, explosive, harmful to health. In the following fields:

- Chemical process engineering
- Pharmaceutical industry, biotechnology
- Plastics industry
- Plant protection
- Electrical industry

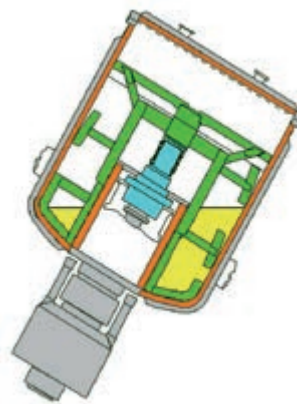
e.g. for alkaloids, amino acids, antibiotics, contraceptives, antirheumatic drugs, lead compounds, bromination substances, cytostatic drugs, enzymes, dyes, herbicides, hormones, insecticides, plastic polymerisates, microcapsules, monomers, natural substances, organ extracts, pharmaceuticals, polymers, mercury compounds, rare metals.



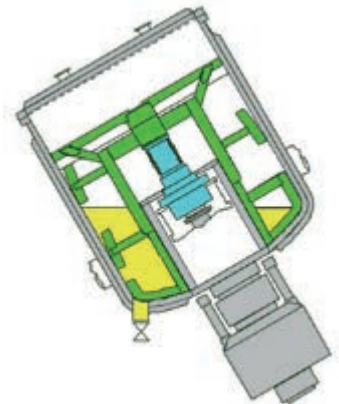
Reaction, precipitation and crystallisation



Filtration and washing



Drying



Discharge