

Pressure nutsche, press filter Merkur

KASAGMerkur®

Merkur® pressure nutsche are single-sheet filters providing for various possible uses. They are equipped with a filling space designed as a pressure vessel, suitable for inserting a filter element (filter layer, filter cloth or metal compound fabric). They can be used to separate and clean solids from suspensions subsequent to precipitation processes or crystallisation processes, or to reprocess alluvial deposits from filter residues.



Benefits of the Merkur® pressure nutsche, press filter

- Long service life and maximum reliability ensuring top product quality and safety to the personnel
- Different process steps, e.g. extraction, filtration, washing out, solving and colouring can be combined in the same device
- Save space and interfaces and generate a high investment benefit
- Additional equipment with armatures, valves, agitators, chassis, probes, gas pipes and riser pipes, CIP/SIP installations and open-loop and closed-loop control systems can be included
- Constructions and designs comply with GMP guidelines and FDA regulations
- 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

KASAG designs three types of pressure strainers for different applications.

Merkur® EF: Laboratory filter

Merkur® EFA: Pressure nutsche with a large filling space for solid separation in batch operation

Merkur® EFD: Pressure nutsche with a small filling space for clarifying filtration and fine filtration of large quantities of liquid.

Design size / type	Filter surface	Effective volume
EF 6–22	20–305 cm ²	0.3–11 litres
EFD 30–200	0.06–3.0 m ²	6–560 litres
EFA 30–200	0.06–3.0 m ²	30–3200 litres

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.).



Single-sheet filter providing for various possible uses



Merkur® single-sheet filter

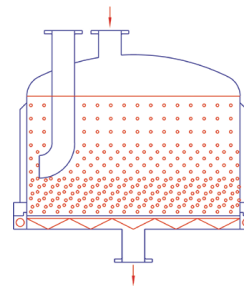
Application

Pressure nutsche for the separation of solids from suspensions subsequent to precipitation processes or crystallisation processes, or for the reprocessing of alluvial deposits from filter residues, allowing for filter cake heights of 100 - 200 mm and more.

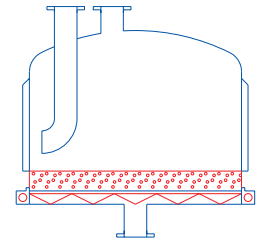
Lens filters for the clarification of large quantities of liquid with a low solid content, which can be filtered well, showing from filter cakes of 50 - 100 mm, in the following sectors:

- Chemical process engineering
- Pharmaceutical industry, biotechnology
- Wastewater technology
- Plastics production
- Electrical industry
- Chemical-technical products

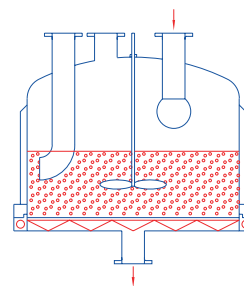
e.g. for the wastewater decontamination, treatment with activated carbon, alkaloids, aluminium oxide, ammonium chloride, inorganic salts, antibiotics, barium salts, codeine, caffeine, dichlorobenzene, precious metal powder, dyes, fine chemicals, film casting solutions, flavourings, human plasma derivatives, catalysts, ball-point ink pastes, plastic suspensions, solvents, metal oxides, natural substances, penicillin, plant extracts, plant protection agents, pharmaceutical intermediate products, polyethylene ketone, PVC stabilizers, aromatic substances, ointment bases, silicone resins, inks, tin compounds.



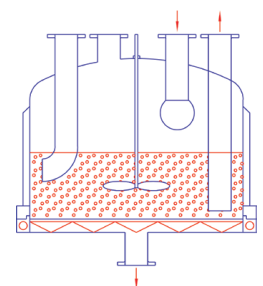
Filtration in the flow path or by means of pressurised gas



Solid output at open filter



Displacement or suspension washing



Solid output as suspension via riser pipe