

Pressofiltro[®] Nutsche Filter / Filter Dryer



Pressofiltro[®] agitated Nutsche filters / Nutsche filter dryers in chemical design

- Calculation, design and manufacture in accordance with the **Pressure Equipment Directive (PED) 97/23/EC** and/or the **ASME** pressure vessel code, Section VIII, with **U-Stamp**.
- Shaft seal with externally accessible stuffing box
optional double mechanical seal and bellows, mechanical seal externally interchangeable, dry running contacting or non contacting lift-off type seals as well as liquid lubricated seals.
- Closed design
optional with openable filter bottom with conventional C-clamps or bayonet locking system.
- Heated or unheated agitator; agitator with two, three or four arms, with simultaneous axial and radial agitator movements for efficient mixing and agitating as well as for the smoothing of the cake.
- Large heating area resulting in an outstanding heat transfer rate by heating the vessel walls, the vessel bottom as well as the agitator blades. Optional supplemental heating with microwaves.
- Good emptying characteristics due to narrow agitator to wall/bottom clearances and a unique agitator blade design.

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Applications for the Pressofiltro[®] agitated Nutsche filters / filter dryers

Chemical design **Pressofiltro**[®] agitated Nutsche filters, suction filters or filter dryers are versatile units equally suited for monoproduction applications and for multipurpose production facilities.

Available as closed units with manhole access or with an openable filter base to provide for good access to the filter internals to change the filter cloth, for cleaning as well as for inspection purposes. Interchangeable filter plates, with flat, homogeneous filter surfaces for good cleanability and inspection. Multilayer and /or conventional filter materials.

Good drying performance with special agitator design, large heat exchange areas.

Typical design parameters for Pressofiltro[®] agitated Nutsche filters / filter dryers

Filter area:	0.03 bis 16 m ²
Slurry volume:	8 – 40.000 liters
Operating temperature:	–10 to 151°C (15 to 300°F) or per requirements
Operating pressure:	–1 to +4 bar (g) (FV to 60 psig) or per requirements
Product wetted materials:	Stainless steels, Nickel based alloys such as Hastelloy C 22 or Alloy 59, Titanium, etc., Sealing materials: PTFE gaskets, O-Rings in FFKM or FEP encapsulated
Area classification:	EC type examination certificate 03ATEX0245X per the 94/9/EC directive, or with electrical components UL approved for operation in a Class I, Division 1 or 2, Groups C&D environment
Accessories:	Heated vessel and agitator, openable filter bottom, dust filter with automatic back cleaning, sampling valve, CIP system, sight glass with vessel light, vacuum system with condenser, heating and cooling unit etc.
Controls:	Control cabinet with PLC, HMI with touch screen, MCC, interface for DCS

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