

AGITATED NUTSCHE FILTERS & FILTER DRYERS



SCAN FOR MORE



DESIGN



NEW MACHINES



SPARE PARTS



UPGRADES



OVERHAULS



SERVICE

We have developed and designed our own range of VSK **Static Nutsche Filters (NF)**, **Agitated Nutsche Filters (ANF)** and **Agitated Nutsche Filter Dryers (ANFD)** used for solid-liquid separation processes, by filtration under pressure and with a vacuum drying; in chemical, pharmaceutical, food industry and cosmetics any many others, from pilot to production scale.

Agitated Nutsche Filter / Dryer works fully in an automatic way, consisting of the stirrer with J-shaped paddles with alternative rotation and vertical up-and-down movement. In clockwise direction it smooths, gently pressing the filter cake layer against the filter plate. In the counterclockwise direction it ploughs, assisting to the evacuation of the



cake towards the side discharge valve. In addition, there is also a function of the filter plate hydraulic lowering.

KEY FEATURES

- Operating pressure from -1 to 3 barg
- Operating temperature up to 200 °C
- Vacuum and/or heating
- Hydraulic agitator drive Bosch-Rexroth
- Bidirectional agitator with function "smooth" and "sweep"
- Adjustable speed of agitator 0 to 50 rpm
- Heating jacket, optional heating of the filter plate
- Double mechanical seals
- Side mounted discharging port with manual or hydraulic clamping (optional discharging in the containment)
- Hydraulic lifting mechanism of the filtering bottom
- Axial lift of an agitator
- Dust filter with a shaker
- Cake washing
- Grinded or polished internal surface
- CIP / SIP washing and spraying systems
- CE certificate, PED (2014/68/EU) or ASME U Stamp, ATEX (2014/34/EU)

MATERIAL OF CONSTRUCTION

- Stainless steel (DIN 1.4571, 1.4541, 1.4301, ...)
- PP, PVDF
- Nickel, nickel alloy (Hastelloy®)
- Coating (PFA RubyRed®, Halar® E-CTFE)



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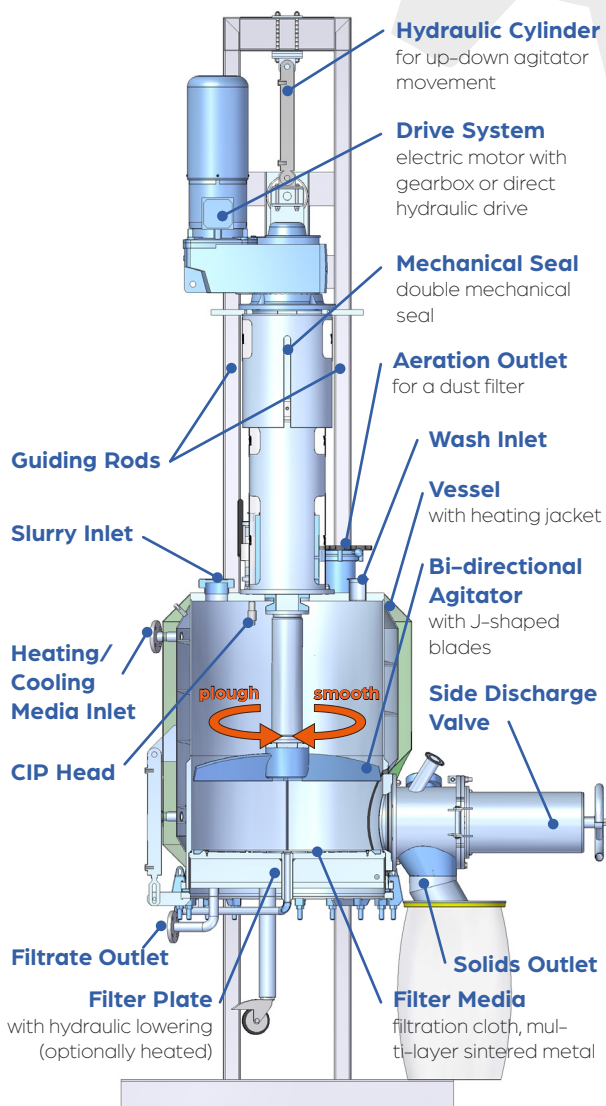
Inner surface Ra<0,8 µm, brilliant polish



Detail of the open discharge valve



Filter dryer of 100 liters volume, pharma version ATEX



Model	Filter surface (m ²)	Diameter (mm)	Cake volume (l)	Slurry volume (l)	Stirrer stroke (mm)	Stirrer speed (rpm)
DN400	0,08	400	30	85	200	15-50
DN500	0,18	500	45	100	200	15-50
DN600	0,28	600	70	160	250	0-20
DN700	0,40	800	120	380	250	0-20
DN800	0,50	800	150	400	250	0-20
DN1000	0,65	600	230	700	250	0-20
DN1100	0,80	1100	320	900	250	0-20
DN1200	1,00	1200	450	1500	250	0-20
DN1500	1,80	1500	800	2800	500	0-20

Data for information only. We design custom made equipment.

