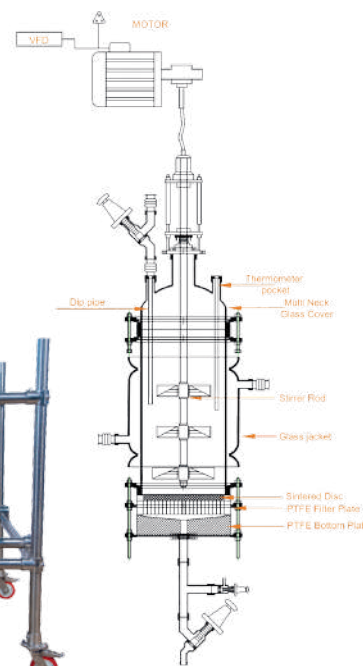


NUTSCHE FILTER

The Agitated Glass Nutsche Filter is a sealed vessel used for vacuum filtration to separate solids and liquids. This enclosed setup guarantees an odorless, contamination-free, and environmentally friendly work environment, maintaining the purity and hygiene of the product. Widely utilized in the production of herbal products, chemical research, kilo lab operations, pharmaceutical manufacturing, agrochemicals, and the food industry.

PROCESS STEPS OF AGITATED NUTSCHE FILTER WITH AGITATOR :

- 1) Filtration.
- 2) Washing of Filter cake.
- 3) Repeat mix or washing of the cake.
- 4) Convection drying of the cake.
- 5) Smoothing with compression of the cake
- 6) Discharge of the wet or dried cake.



DESCRIPTION

A typical unit consists of a dish-shaped vessel with a perforated plate, ensuring a leak-proof design suitable for vacuum or pressure operations. The vessel's temperature can be regulated using a mixer/agitator and jacket. The base plate is equipped with bolting bars to secure the filter cloth. Offering choices for various nozzles like Manhole and Side discharge. PTFE Lined Stirrers and solid PTFE blades are used for efficient solid discharge and re-slurring. The drive assembly comprises a Motor with VFD and a Mechanical Seal for vacuum applications. The Borosilicate Glass Vessel is equipped with different nozzles, and a Manual/Hydraulic system facilitates the movement of the agitator and bottom plate. Additionally, a PTFE Filter Support Plate is provided.



Advantages of Glass Nutsche Filter

- Vacuum filtration is achievable with our equipment.
- The transparent glass allows for clear visibility of the processes.
- An inert gas atmosphere can be maintained.
- Minimal contamination of the cake and very high solvent recovery.
- Since the solvents are contained within closed systems, no toxic vapors are released into the environment.
- Personal safety is prioritized, and heat transfer surfaces can be incorporated to regulate the filtration temperature.

Cat. Ref.	Working Vol (ltr)	Filter area (m2)	Vessel Dia	Vessel height	Motor Capacity HP
ANFD10	10	0.03	225	300	0.5
ANFD20	20	0.06	360	325	0.5
ANFD50	50	0.12	400	450	0.5
ANFD200	200	0.31	600	775	1
ANFD300	300	0.31	600	1150	1

Note: We provide Glass ANF ranging from 2 liters to 200 liters for kilo lab operations. These vessels are available with or without jackets and with or without stirrers.