

# Agitated Nutsche Filter

The Agitated Glass Nutsche filters are commonly used in the following industries for the production purposes, chemical industry, pharmaceutical industry, and laboratory industries, and many others. (ANFD) Agitated Nutsche Filter Dryer Manufacturer produces the ANFD'S for the purpose of filtration as well as drying the material in the same unit.

The Glass Nutsche Agitated Filters are designed specifically for efficient filtration to allow for liquid to Solid- Separation, it can be comfortably combined with our regular reaction unit. Both contact parts are inert and thus permit a range of pharmaceutical, chemical, and solvent equipment to be used. An appropriate filter is used to separate the solid particles of the slurry, forming a filtered cake. The Filtrate Flows downwards and can be obtained from the valve at the bottom outlet, Also easily remove the filter Cake.

### General specifications

Glass vessel	:	10,20,50,100, 200, 300 liter
Pressure	:	-1.0 (FV) to +0.4/ 1.0 bar
Temperature	:	-60 °C to +150 °C (200 °C)
Filter cloth	:	Mesh size 8 to 115 micron
Material	:	Borosilicate glass 3.3, PTFE, PFA

Non-Jacketed Glass Nutsche Filters sized up to 300 Liters  
Glass Jacketed Nutsche Filters size 1 Liter up to 100 Liters.

### General specifications (Benchtop Filter Reactor)

Vessel capacity	:	1 L, 2 L, 3 L and 5 L
Vessel type	:	Double wall, full jacket
Filtration area	:	78.5 cm <sup>2</sup> (1 L & 2 L) 176.7 cm <sup>2</sup> (3 L & 5 L)
Operating pressure	:	FV to atmospheric pressure
Operating jacket pressure	:	Up to +0.5 barG (0.05 MPa)
Operating temperature	:	-40 °C to +200 °C
ΔT - Thermal shock resistance	:	110 °C (double wall)

### Typical application

- Filtration / Separation
- Drying
- Purification
- Crystallization
- Ion exchange
- Peptide synthesis
- Solid phase peptide synthesis (SPPS)
- Chromatography
- Cannabis extraction (solvent extraction)
- Cannabinoid extraction
- Cannabis extract purification
- Cannabis winterization (cannabis extract winterization)



200 Ltr. Agitated Nutsche Filter



20 Ltr. Agitated Nutsche Filter

1 to 5 Ltr. Benchtop Filter Reactor

# High Containment Filter

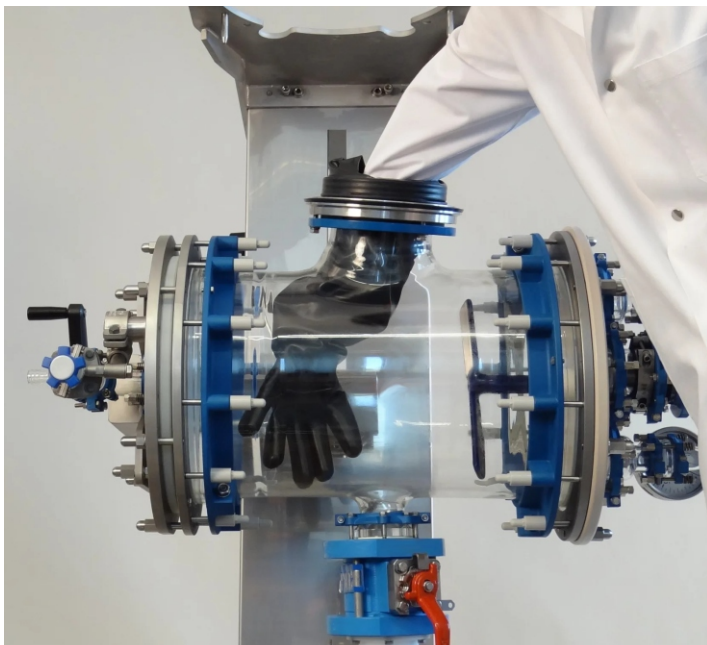
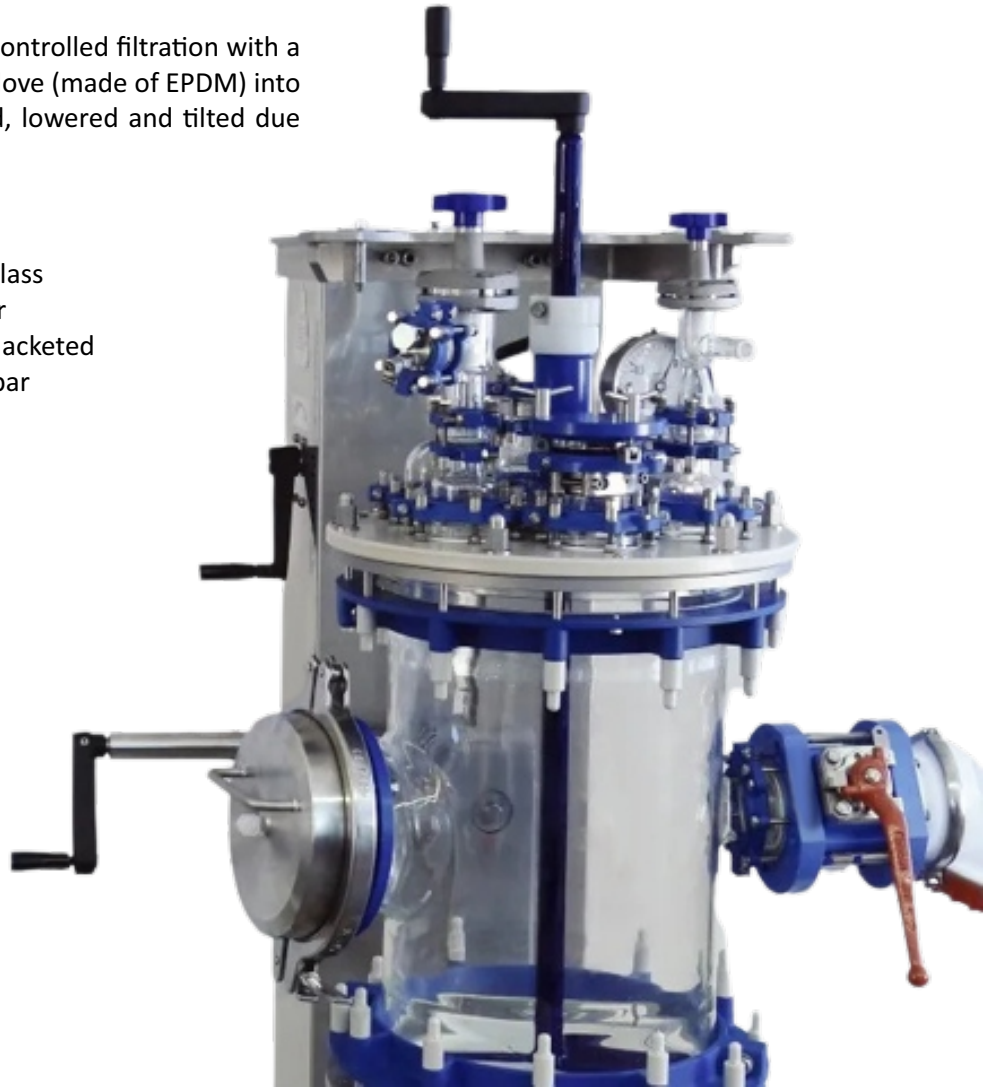
Global high containment nutsche filters allow for controlled filtration with a contained discharge by wiping out with the fixed glove (made of EPDM) into a bag system. The filter vessel can easily be lifted, lowered and tilted due to its versatile and solid stand.

### General specifications

Vessel MOC	:	Borosilicate 3.3 Glass
Vessel Capacity	:	10 liter to 30 Liter
Vessel Type	:	Jacketed or Non Jacketed
Operating Pressure	:	-1.0 (FV) to +0.5 bar
Operating Temperature	:	-60°C to +180°C
Filter & Filter Cloth	:	PTFE/ECTC/PP
MOC of Glove	:	EPDM

### Typical application

- Contained filtration of APIs / HPAPIs
- Washing of filter cake
- Filtration under protective (inert) atmosphere
- Contained discharge of filter cake
- Filtration of HPAPI
- Filtration / Separation
- Purification
- Crystallization
- Ion exchange
- Peptide synthesis
- Solid phase peptide synthesis (SPPS)
- Filtration under protective atmosphere



Global Antico Process Systems – leading Indian manufacturer of reactor systems, pilot plants and process solutions for cGMP API synthesis – from lab through pilot plant/kilo lab to production scale.

With over years of experience Global stands for the highest level of quality and reliability. Our offering covers the whole life cycle of the equipment from pre-sales consulting and engineering through manufacturing, installation and IQ/OQ to after-sales services and plant optimization. Our engineered solutions lead to the highest output of your R&D, scale-up/pilot activities and production processes.