



### Product Description

The QVF Glass Nutsche is a suction filter made with a borosilicate glass body and fluoropolymer or alloy filter media supports. Designed for KiloLab deployment, this high-grade filter is similar to our Rosenmund ROMAN filter design and keeps in mind our customer demands and process requirements. Custom units are also available, as illustrated on the back page.

### Glass Nutsche Features

The two main parts of the QVF Nutsche Filter system are the bottom plate with filtrate chamber and the head cover with integrated manual driven stirrer with variable height. Both pieces are mounted on wheels facilitating equipment mobility. The easy detachable and mobile filtrate chamber enables quick product collection, even in a fume box.

### Glass Nutsche Operation

Using vacuum during the filtration process, the liquid phase will be sucked through the filter into a receiver. Nitrogen bleed inerting through the vessel at atmospheric pressure is possible.

Cracks and gaps within the filter cake can be closed by lowering the integrated flat blades and cranking the handwheel in order to smooth the surface.

After finishing the filtration process a washing step with simultaneous agitating can be performed.

The filter cake can be comfortably removed out of the filtrate chamber. The head cover is raised by means of the integrated lifting device and the filtrate chamber swings out while the cover, fixed with bolts, remains in the mobile rack.

### Cleaning

The QVF Nutsche Filter can produce several identical batches before cleaning is required. When the same product is being used, simple cleaning of the sealing surface between the filtrate chamber and cover is sufficient; the filter can then be easily reassembled again. In the case of a product change the filtrate chamber should be cleaned after being released from the bottom and the filter cloth can be substituted if necessary.



Fig. 1: QVF Glass Nutsche Filter



Fig. 2: Nutsche Filter with mobile vessel.



Fig. 3: Nutsche Filter with mobile vessel, the head cover is raised.

### QVF GLASS NUTSCHE ADVANTAGES

- No metal in contact with the product
- Two separate movable parts
- Easy cleaning
- Quick product collection
- Simple change out filter cloth
- Excellent corrosion-resistance
- Smooth, pore-free surface
- Visibility
- Catalytic inertness
- No effect on odor and taste



## Specifications

Nominal Diameter	DN300	DN450	DN600
Filter area	0.065 m <sup>2</sup>	0.15 m <sup>2</sup>	0.27 m <sup>2</sup>
Maximum filling volume	16.5 liters	38 liters	70 liters
Operating pressure	ambient (filtrate chamber) - vacuum (bottom branch)		
Operating temperature	max. 70 °C		
Cleaning temperature	temporary 130 °C		
Materials in contact with product	Borosilicate glass 3.3, PTFE, FEP. All materials with FDA compliance certificates. Filter sheet as specified by customer.		

## Options

The QVF Glass Nutsche Filter can be customized to fit your specific needs, with options like:

1. Heating jacket
2. Corrosion-resistant materials of construction (PTFE and glass for all product contact areas)
3. Automation/Controls
4. Protection jacket for light-sensitive products
5. Lifting Device
6. Vacuum System



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