

# **INSTRUCTION MANUAL**

Model: VF 20 / 21

Carefully check if the shipping carton is damaged before unpacking. Please check the items according to the standard package list. If you have any questions, please preserve serial no. & shipping carton and contact your dealer for quick solution.

Model	Borosilicate Glass Filtration Apparatus for Evaporation			
	VF 20 / 21			
Filter diameter	47 mm / 50 mm			
1. Funnel	300 mL			
2. Aluminum clamp	Yes			
3. Membrane support	VF 20: Sintered glass / VF 21: SS screen			
4. Support base	Yes			
5. Vacuum bottle	1000 mL Evaporating flask, TS 24/40			
	$\begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ \end{array}$			

Note: (1) An additional PTFE gasket, placed under membrane support, is included in VF 21.

(2) Filtration sets and flasks are available with various sizes and joints, contact us for options.

### Maintenance

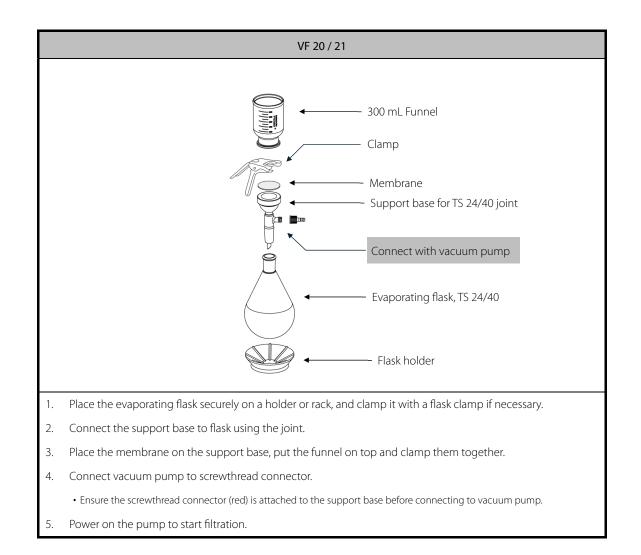
#### 1. Cleaning

- A. Disassemble the filter holder and vacuum bottle completely.
- B. Soak all parts in clean water. Avoid abrasive cleansers. If necessary, use a soft bristle brush or sponge to remove residues.
- C. Rinse all parts thoroughly. Final rinse should be done with distilled or deionized water.
- D. Store in a clean, dry place.

#### 2. Sterilization

- A. Ensure each part is disassembled before autoclaving.
- B. Autoclave at 121 123 °C (250 253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 20 min.

### Usage Guide



## Ordering Information

VF 20, Glass Filtration Set for Evaporation		167230-31	SS support screen, 47 mm
F 21, Glass Filtration Set for Evaporation		167230-41	PTFE gasket, 47 mm
300 mL Glass Filter Holder for VF 20		167240-01	Aluminum clamp, 47 mm
300 mL Glass Filter Holder for VF 21		167200-38	Silicone tube Ø 6 x 12 mm, 100 cm
Evaporating flask, 1000 mL, TS 24/40			
Rocker 300C, PTFE Coated Chemical Resistant Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)			
Chemker 300, Chemical Resistant Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)			
Whatman ME 25 (MCE) membrane, 47 mm, 0.45 µm, 100/PK			
PALL A/E glass fiber membrane filter, 47 mm, 1 μm, 100/PK			
	VF 21, Glass Filtration Set for Evaporation 300 mL Glass Filter Holder for VF 20 300 mL Glass Filter Holder for VF 21 Evaporating flask, 1000 mL, TS 24/40 Rocker 300C, PTFE Coated Chemical Resistant Chemker 300, Chemical Resistant Vacuum Pun Whatman ME 25 (MCE) membrane, 47 mm, 0.4	VF 21, Glass Filtration Set for Evaporation 300 mL Glass Filter Holder for VF 20 300 mL Glass Filter Holder for VF 21 Evaporating flask, 1000 mL, TS 24/40 Rocker 300C, PTFE Coated Chemical Resistant Vacuum Pump, Chemker 300, Chemical Resistant Vacuum Pump, AC110V, 60H Whatman ME 25 (MCE) membrane, 47 mm, 0.45 µm, 100/PK	VF 21, Glass Filtration Set for Evaporation167230-41300 mL Glass Filter Holder for VF 20167240-01300 mL Glass Filter Holder for VF 21167200-38Evaporating flask, 1000 mL, TS 24/40167200-38Rocker 300C, PTFE Coated Chemical Resistant Vacuum Pump, AC110V, 60Hz (ACChemker 300, Chemical Resistant Vacuum Pump, AC110V, 60Hz (AC220V, 50Hz)Whatman ME 25 (MCE) membrane, 47 mm, 0.45 µm, 100/PK