



Vial Cleaning System

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The vial cleaning system provides the safest and most efficient method for cleaning PFA vials and labware. Molded from high purity PFA, the vial cleaning system is designed specifically for heated soaking, and is a superior, unbreakable alternative to glass beakers traditionally used for cleaning PFA labware. The vial cleaning system is fully enclosed which not only eliminates airborne contamination, but also prevents acid loss due to evaporation. A removable pour spout enables safe emptying of cleaning acid for easier removal of cleaned components.

Design Features

The vial cleaning system is designed to be used with most laboratory hotplates for safe and effective cleaning of PFA vials and labware by heated soaking in soap solution or acids. All wetted parts are molded from high purity PFA. When cleaning solution and components to be cleaned are placed inside the large 4 L cleaning container, the cleaning container lid is fitted and secured by hand with the sealing ring. A silicone grip mat (included) holds the cleaning container in place while the sealing ring is tightened or removed. The cleaning container lid features a unique vent port with a PTFE membrane, which prevents pressure build up during heating, while retaining acid vapor inside. The vial cleaning system can be heated at sub-boiling temperatures for days with negligible loss of liquid. This eliminates the need for continual monitoring and also saves on acid cost and is better for the environment.

Unlike glass beakers, the vial cleaning system is highly durable and will not crack or shatter if it is dropped even when full. A removable pour spout allows cleaning solution to be safely drained and enables cleaned contents to be removed safely.

The vial cleaning system is resistant to all mineral acids and can be used to clean components at or close to the boiling point of dilute acids.



System Components

The vial cleaning system comprises of the following parts:

- Cleaning Container
- Cleaning Container Lid
- ½" Cap Nut, Cleaning System
- ¼" Vent Nut Assembly
- Sealing Ring
- Pour Spout Assembly
- Silicone Grip Mat

Maximum Working Temperature

Do not use a vial cleaning system on a hotplate surface above 450°F (230°C).

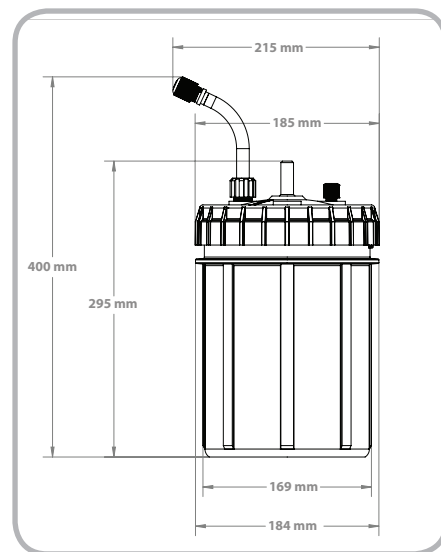
Exceeding this temperature may cause irreversible damage to the vial cleaning system.

Specifications

Description	Size
Cleaning Container Diameter with Lid	185 mm (7.28 in)
Cleaning Container Diameter with Pour Spout	215 mm (8.46 in)
Cleaning Container Height with Lid	295 mm (11.61 in)
Cleaning Container Height with Pour Spout	400 mm (15.75 in)
Brim Capacity	4,500 mL (1.2 gal)
Empty Weight with Pour Spout	2,100 g (4.63 lbs)

Ordering Information

Description	Part #
Vial Cleaning System	550-01



Safety

The vial cleaning system is not a pressure vessel. The vent port must not be sealed during heating and heating must be performed inside a fume hood with adequate ventilation. The vial cleaning system should not be used on a hot plate without liquid inside since the cleaning container can be damaged if the hot plate is set to a high temperature.

Vial Rack System

The SavilleX vial rack system is the safest and most efficient way to clean PFA vials, closures and other types of labware by acid soaking. Designed specifically for use with the vial cleaning system (sold separately), the vial rack system, holds vials and closures upright during cleaning, eliminating air pockets and also facilitates the loading and unloading of the vial cleaning system. In combination, the vial rack system and vial cleaning system provides a complete solution for the acid cleaning of SavilleX PFA vials, closures and many other types of labware.

Design Features

The vial rack system comprises of a series of grid-like racks which stack on a center post. Each rack is loaded with vials or closures and a rim around each rack holds the parts captive for easy handling. Racks are designed to accept a specific SavilleX vial/closure and feature an integrated spacer which prevents the rack above from coming in contact with the lip of the vial/closure below, which prevents contamination from being trapped. Because the parts are held upright, air pockets are eliminated, which also promotes efficient cleaning. Once loaded and the handle secured, the vial rack system is placed into the SavilleX vial cleaning system for acid soaking using a hot plate. Racks are molded from PFA (the center post is PTFE) giving excellent resistance to all mineral acids. A drip tray is included which can be used to stand the rack system on or to transfer it to a sink for rinsing.

Three pre-configured vial rack systems are available, to accommodate the most popular sizes of SavilleX vials: 7 mL, 15 mL and 30 mL, along with appropriate closures. For vials or parts other than those listed above, a customized rack system can be built using specific size or universal racks. The universal rack does not feature a spacer, but can be used with any size vial or other items.

The rack system can also be used with most 4 L glass beakers. Since the rack system is too tall to allow the use of a watch glass, a purpose designed PFA beaker lid is available for when the system is used with a glass beaker. It is the user's responsibility to ensure that there is enough clearance between the vial rack system and the sides of the glass beaker to prevent it from becoming jammed inside the beaker on heating.



15 mL Vial Rack System



System Components

The vial rack system comes complete with:

- PFA Racks to hold Vials and Closures
- PTFE Post with Molded PFA Base
- Molded PFA Handle
- Drip Tray

Vial System Specifications

Type	Number of Racks	Complete System Vial Capacity	Complete System Closure Capacity
7 mL Vial Rack System	8	72 Vials	80 Closures
15 mL Vial Rack System	7	36 Vials	27 Closures
30 mL Vial Rack System	5	24 Vials	18 Closures

Individual Vial Rack Specifications

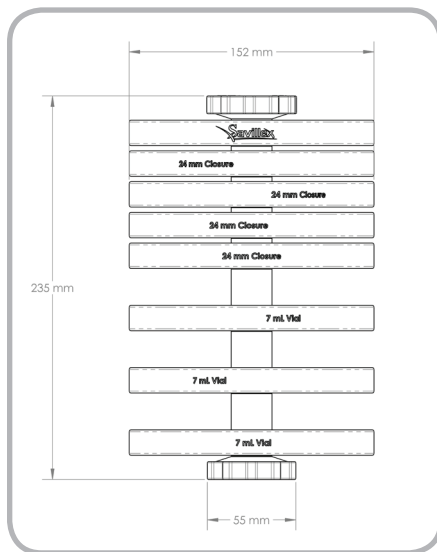
Type	Single Rack Capacity
7 mL Vial Rack	24 Savillex 7 mL PFA Vials
15 mL Vial Rack	12 Savillex 15 mL PFA Vials
30 mL Vial Rack	12 Savillex 30 mL PFA Vials

Individual Closure Rack Specifications

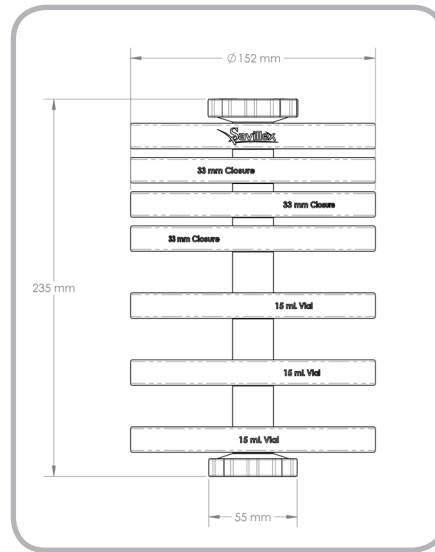
Type	Single Rack Capacity
33 mm Closure Rack	9 Savillex 33 mm PFA Closures
24 mm Closure Rack	20 Savillex 24 mm PFA Closures

Ordering Information

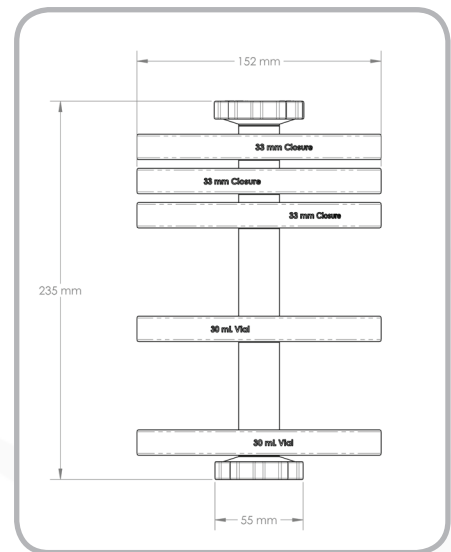
Description	Savillex Part #
7 mL Vial Rack System	550-07
15 mL Vial Rack System	550-15
30 mL Vial Rack System	550-30



7 mL Vial Rack System



15 mL Vial Rack System



30 mL Vial Rack System