

# Vacuum Manifold

*For research use only*

Catalogue Number

ZVF01

## Introduction

The Presto™ Vac 96 Vacuum Manifold is an efficient system for manually purifying DNA and RNA from 96 samples concurrently using Presto™ 96 Well Plates and Kits. Binding plates and filter plates seal tightly to the gasket when vacuum pressure is applied to facilitate uniform flowthrough. The waste tray allows for quick and easy disposal of reagent flowthrough and the flat spacer reduces the distance between the 0.35 ml collection plate and binding plate to ensure complete eluate collection. The compact yet robust design ensures stability during vacuum procedures for excellent reproducibility.

## Components:

1	Manifold Base
2	Manifold Top Plate
3	Waste Tray

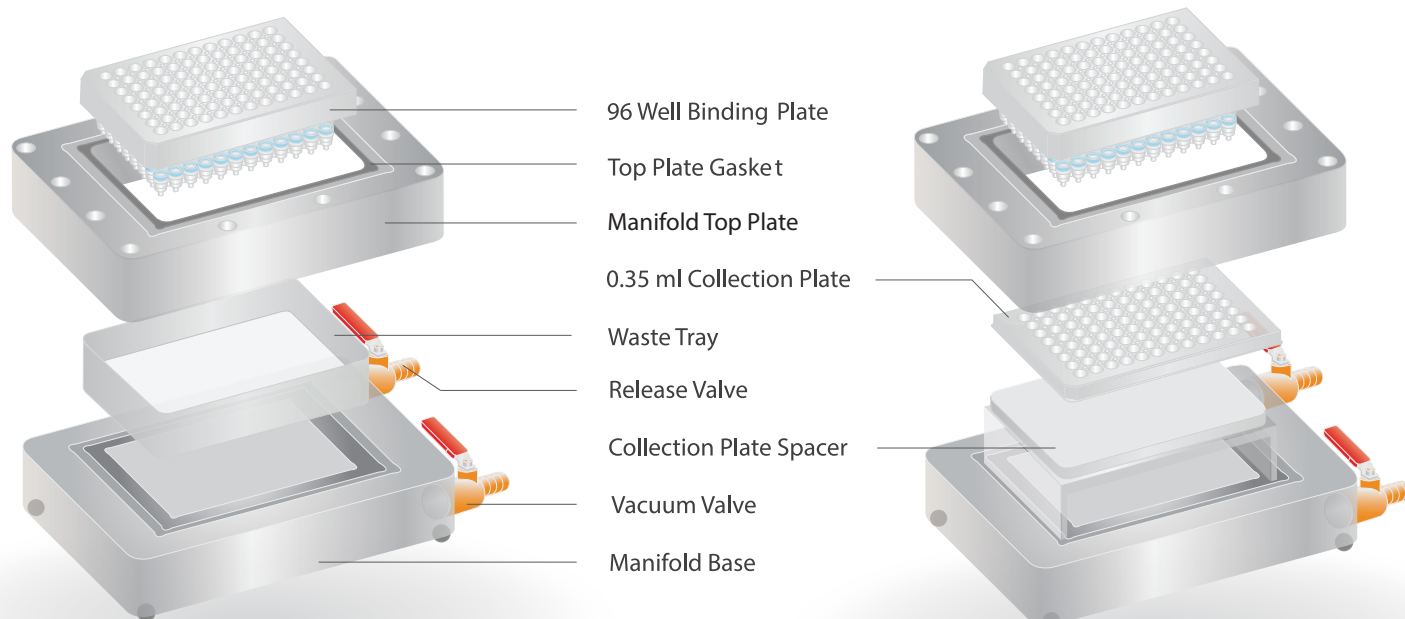
4	Collection Plate Spacer
5	Spin Column Adapter
6	Microcentrifuge Tube Adapter

## Manifold Set up:

### 96 well plate format

- For DNA/RNA Binding, Wash steps

- For DNA/RNA Elution step



### Set up the Manifold:

- Place the manifold on a stable lab bench.
- Lift the Manifold Top Plate off of the Manifold Base and set it aside.
- Place the Waste Tray on the Manifold Base then place the Manifold Top Plate back on the Manifold Base.
- Place a 96 Well Binding Plate on the Top Plate Gasket.
- Make sure the Vacuum Valve and the Release Valve are in the closed position. When the Vacuum Valve and Release Valve handles are parallel to the valves, the valves are open. When the handles are perpendicular to the valves, the valves are closed.
- Connect the manifold to a vacuum source by attaching the vacuum hose to the Vacuum Valve.
- The manifold is now ready for DNA/RNA extraction following the 96 well kit extraction protocol.

### For DNA/RNA Binding and Wash steps:

- Turn on the vacuum source and open the Vacuum Valve.
- Pressing the 96 well plates down firmly will help seal the plates to the gasket more quickly. Adhesive film should be used to cover empty wells to improve efficiency.

NOTE: While the vacuum pump is turned on and the Release Valve is closed, the vacuum manifold will remain under vacuum pressure. Turn the vacuum pump off and open the Release Valve to release vacuum pressure.

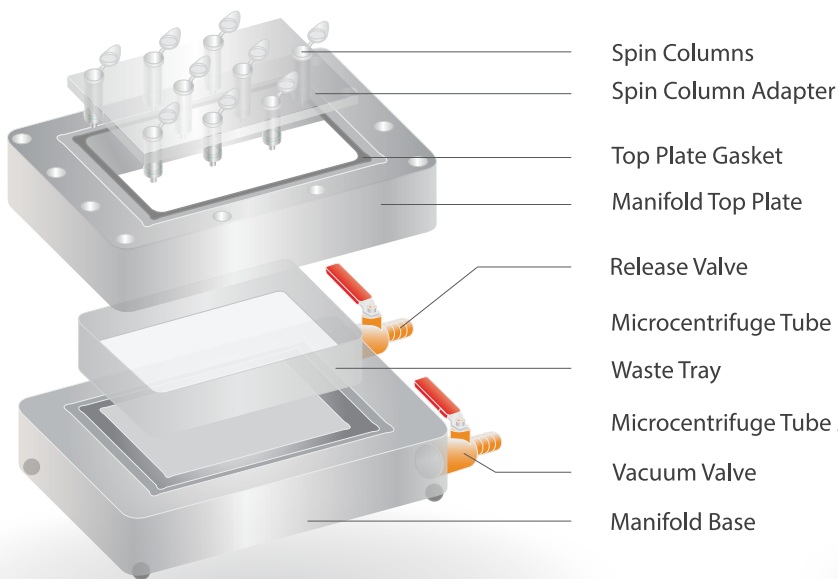
### For DNA/RNA Elution step:

- Prior to elution, the Waste Tray should be removed. Remove the Manifold Top Plate and set it aside.
- Place the Collection Plate Spacer on the Manifold Base then place a 0.35 ml Collection Plate on the spacer.
- Place the Manifold Top Plate back on the Manifold Base then place the 96 Well Binding Plate back on the Top Plate Gasket.
- Proceed according to the 96 well kit elution procedure.

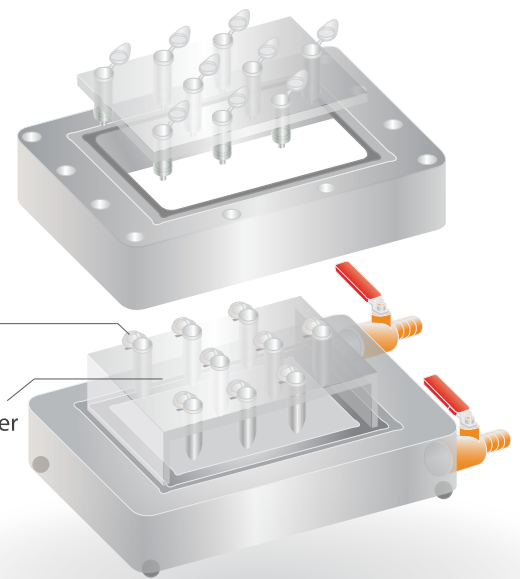
## Manifold Set up:

### Spin Columns format

- For DNA/RNA Binding, Wash steps



- For DNA/RNA Elution step



## Spin column procedure:

### Set up the Manifold:

- Place the manifold on a stable lab bench.
- Lift the Manifold Top Plate off of the Manifold Base and set it aside.
- Place the Waste Tray on the Manifold Base then place the Manifold Top Plate back on the Manifold Base.
- Place the Spin Column Adapter on the Top Plate Gasket.
- Insert the spin columns (or spin column/extension tube assembly) into the holes of the Adapter then push them firmly into position.  
Note: Adhesive film should be used to cover empty wells to improve efficiency.
- Make sure the Vacuum Valve and the Release Valve are in the closed position. When the Vacuum Valve and Release Valve handles are parallel to the valves, the valves are open. When the handles are perpendicular to the valves, the valves are closed.
- Connect the manifold to a vacuum source by attaching the vacuum hose to the Vacuum Valve.
- The manifold is now ready for DNA/RNA extraction following the spin column kit extraction protocol.

## For DNA/RNA Binding and Wash steps:

- Turn on the vacuum source and open the Vacuum Valve.
- Pressing the Spin Column Adapter down firmly will help seal it to the gasket more quickly.

NOTE: While the vacuum pump is turned on and the Release Valve is closed, the vacuum manifold will remain under vacuum pressure. Turn the vacuum pump off and open the Release Valve to release vacuum pressure.

## For DNA/RNA Elution step:

- Prior to elution, the Waste Tray should be removed. Remove the Manifold Top Plate with the Spin Column Adapter and set it aside.
- Place the Microcentrifuge Tube Adapter on the Manifold Base then insert the microcentrifuge tubes into the holes of the Adapter.
- Place the Manifold Top Plate with the spin columns back on the Manifold Base. Make sure the position of the spin columns and the microcentrifuge tubes are aligned.
- Proceed according to the spin column kit elution procedure.