

# Resprep VM-96 Vacuum Manifold

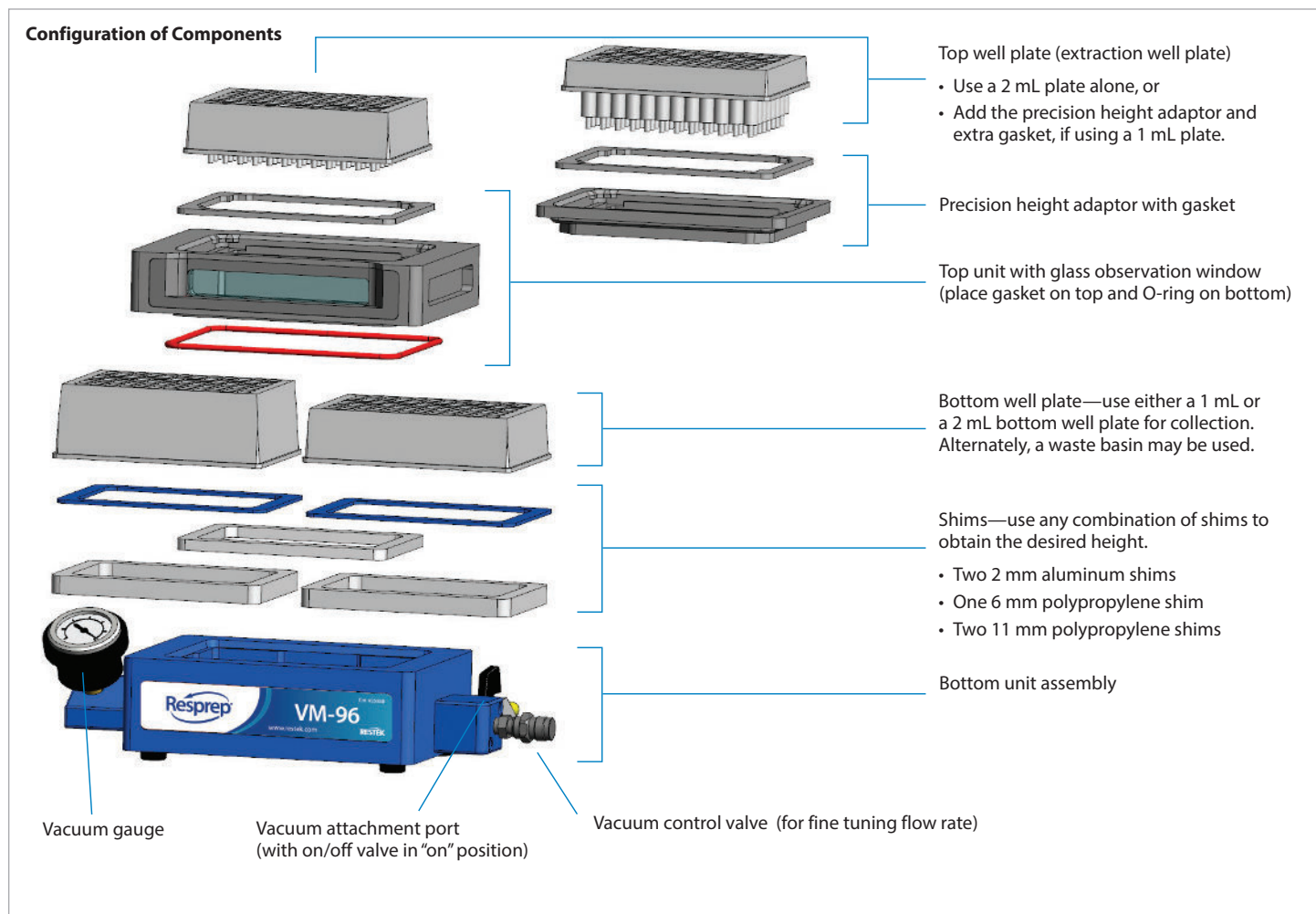
cat.# 25858

The Resprep VM-96 vacuum manifold is designed for 96-well plate sample preparation methods. It is compatible with solid phase extraction (SPE), supported liquid extraction (SLE), protein precipitation (PPT), and filter plate techniques. Manufactured with precision-machined aluminum and stainless steel parts, the Resprep VM-96 vacuum manifold is robust and reliable for high-volume laboratory work. For user convenience, flow rate can be easily monitored either from the top of the extraction well plate or through the glass window.

## Components

All Resprep VM-96 vacuum manifolds contain the following components. Well plates and waste basins are not included.

1. Top unit with glass observation window (constructed of aluminum with stainless steel support around the glass window)
2. Bottom unit (aluminum) with four rubber feet
3. Precision height adaptor (aluminum)
4. Vacuum gauge
4. Valve block assembly
  - a. Vacuum attachment port (with on/off valve)
  - b. Vacuum control valve
5. Shim pack
  - a. Two 2 mm aluminum shims
  - b. One 6 mm polypropylene shim
  - c. Two 11 mm polypropylene shims
7. Tygon vacuum tubing (5 ft length)
8. Two gaskets (one for top unit, one for precision height adaptor)
9. O-ring



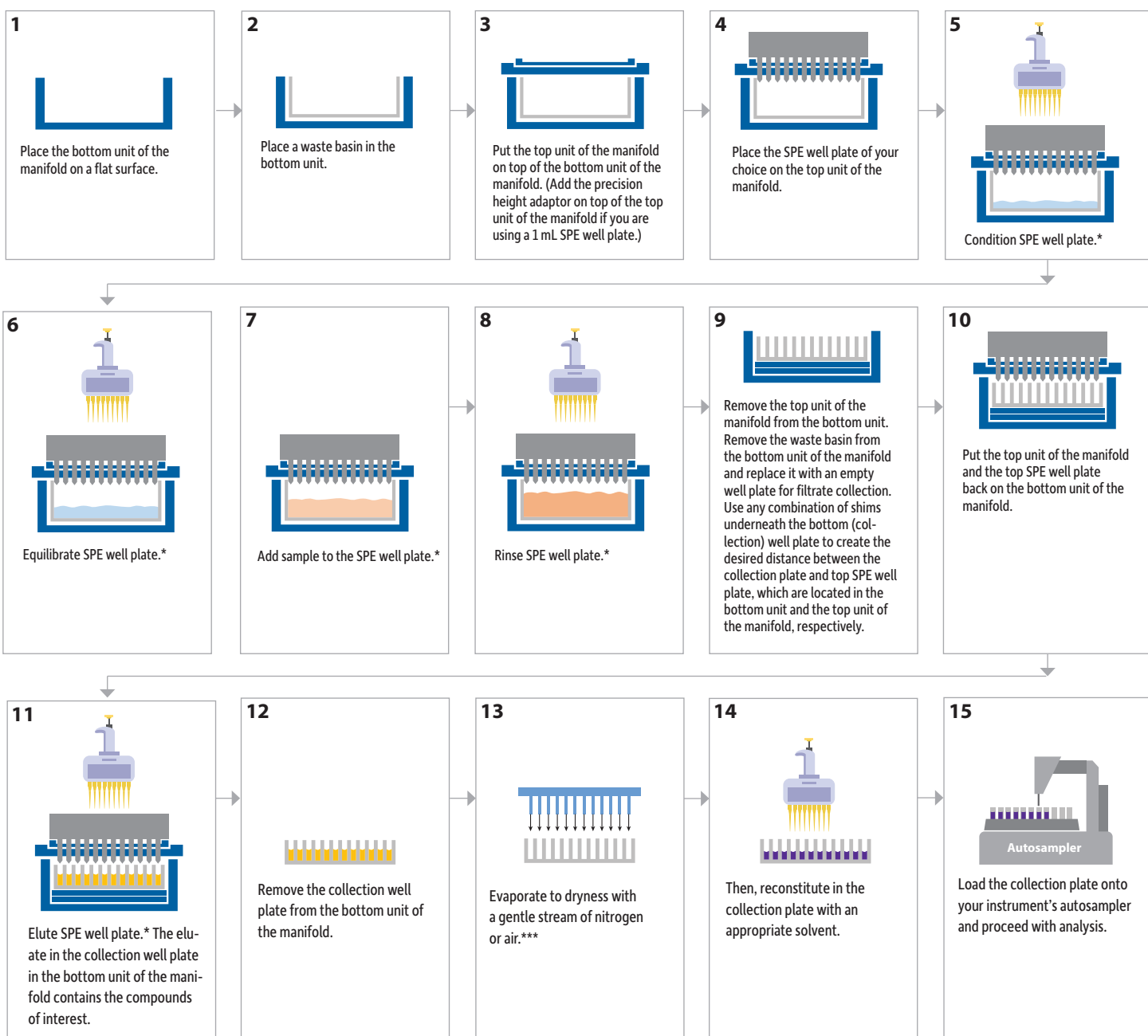
## Guidelines for Use

These instructions describe generic applications for different well plate types/techniques and should only be used for overall guidance. Refer to your well plate manufacturer's instructions for more specific procedures. Note that if a bottom well plate is not used, a waste basin should be used instead. Although solvent waste can be drained by vacuum, this can damage metal components along the vacuum path and reduce the lifetime of your Resprep VM-96 vacuum manifold.

1. Put the bottom unit of the manifold on a flat surface (e.g., laboratory hood or counter top) within range of a vacuum source.
2. Place shims into the bottom unit until they provide the height that is needed for your application. Any combination of shims may be used; the height needed depends on the type of bottom (collection) well plate or waste basin that is used.
3. Put the bottom (collection) well plate or the waste basin on top of the shims.
4. Inspect the top unit of the manifold. Confirm that the O-ring is secured to the underside and that a gasket is in place on the top.
5. Place the top unit of the manifold onto the bottom unit of the manifold.
6. If using a 1 mm top well plate, place the precision height adaptor on the top unit of the manifold. Confirm that a gasket is also in place on the top of the precision height adaptor.
7. Put the top well plate of your choice onto the assembled Resprep VM-96 vacuum manifold. This unit can be used with SPE, SLE, PPT, and filtration 96-well plates. See the instructions below for general procedures for each type of well plate.

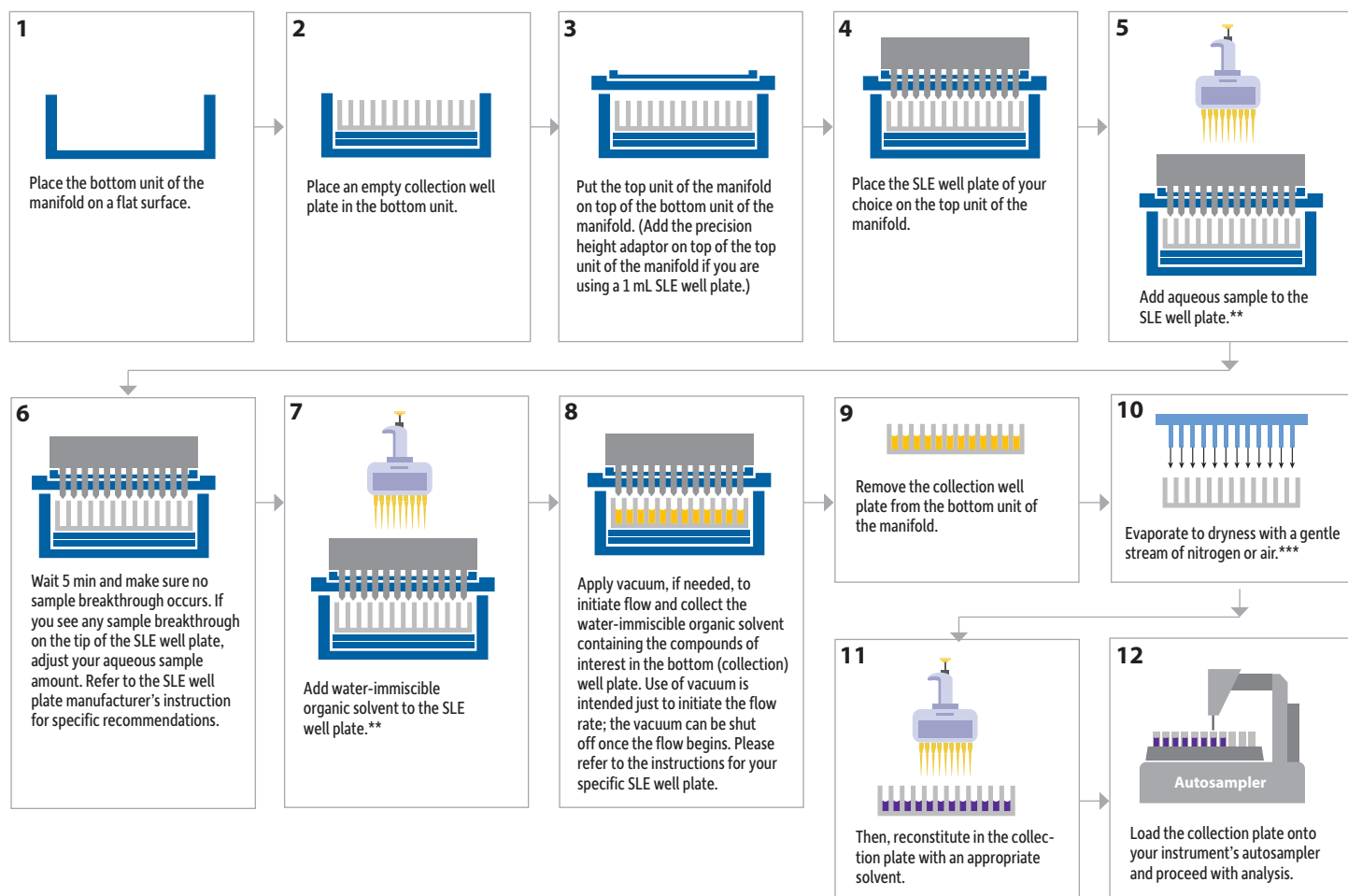
## SPE Well Plate

### General Procedure



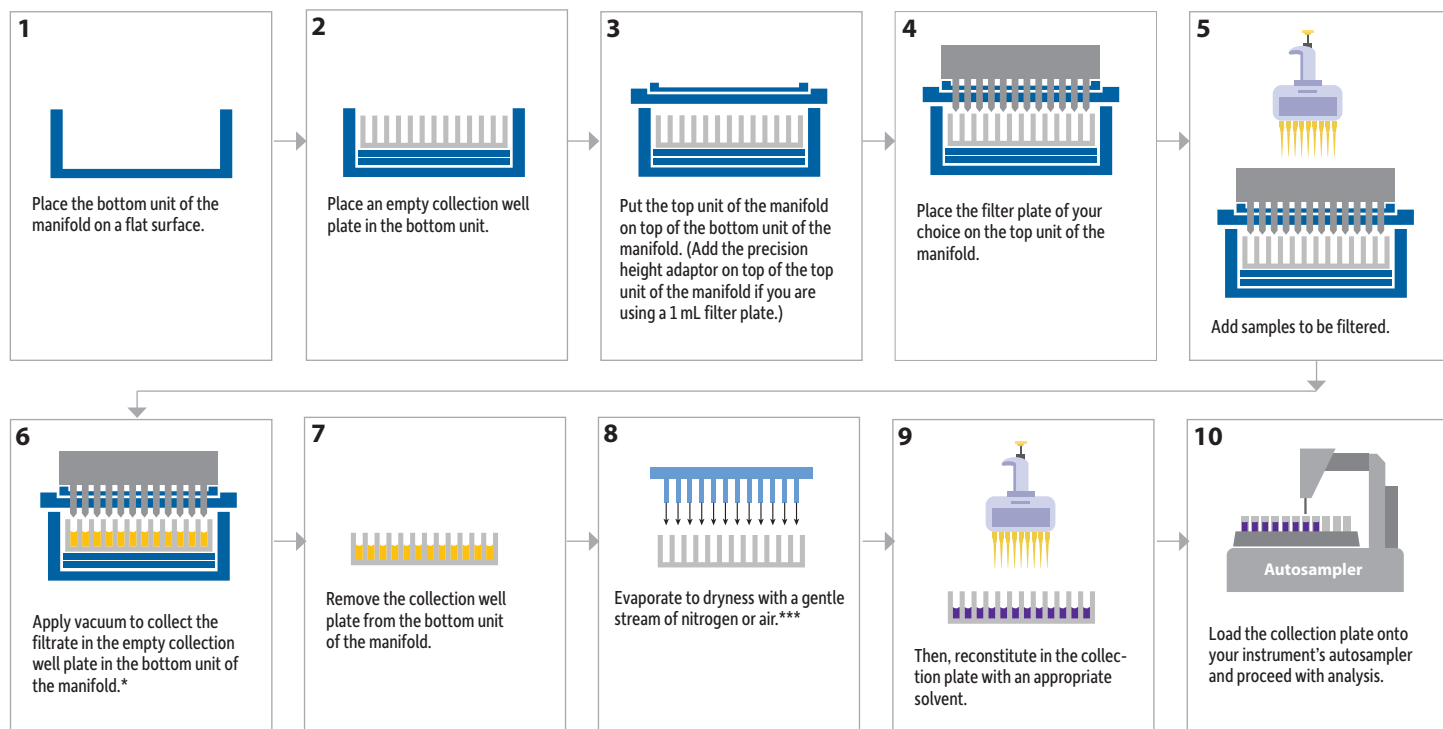
# SLE Well Plate

## General Procedure



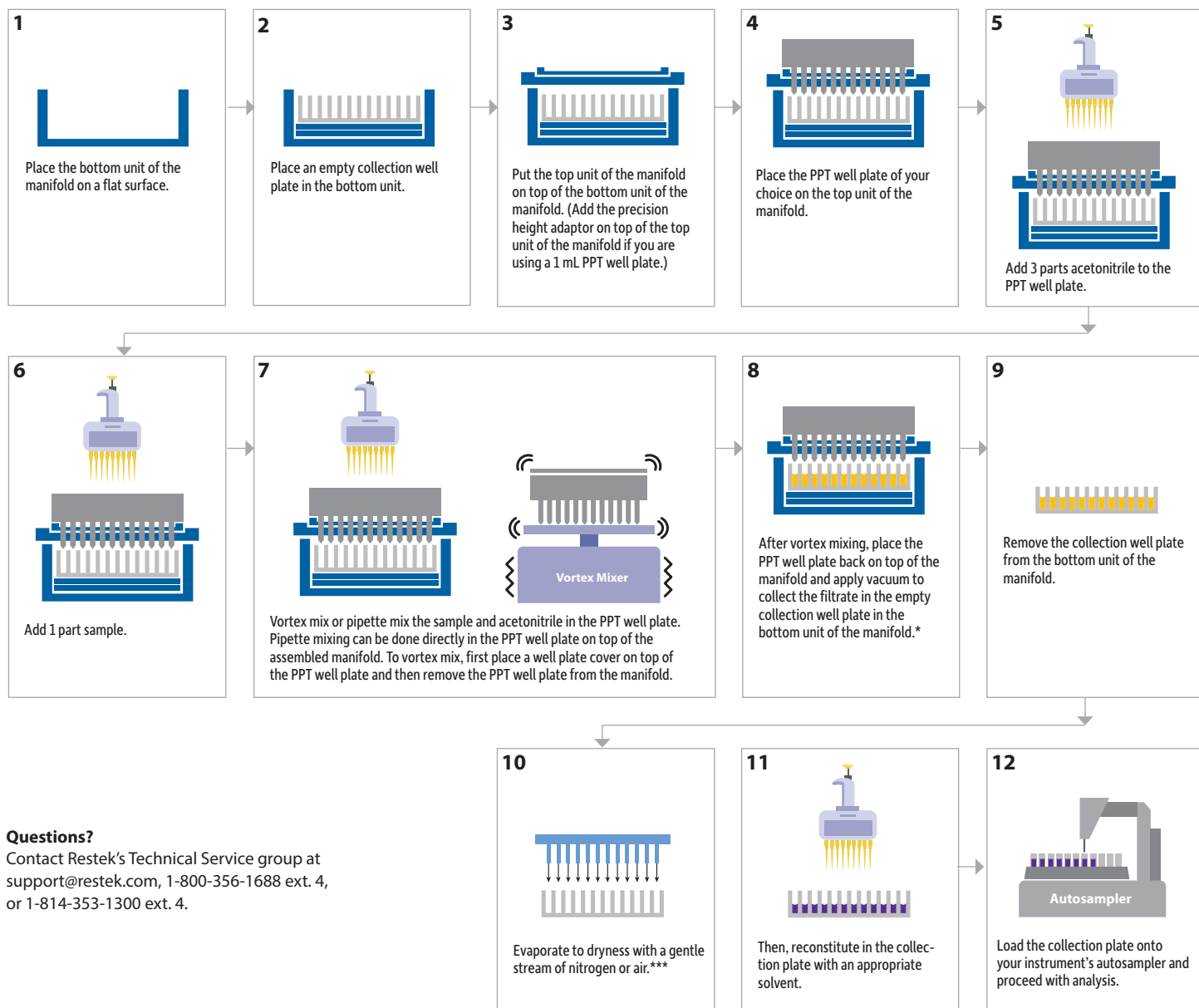
# Filter Plate (without Non-Drip Function)

## General Procedure



# PPT Well Plate (with Non-Drip Function)

## General Procedure



### Questions?

Contact Restek's Technical Service group at support@restek.com, 1-800-356-1688 ext. 4, or 1-814-353-1300 ext. 4.

\*These steps include the use of a vacuum. Whenever a vacuum is applied, the flow rate should be checked and can be adjusted using the vacuum control valve. A flow rate of a couple of drops per second is generally recommended, but slower flow rates can yield better results.

\*\* Gravity flow is recommended, but if no flow is observed, apply a pulse of vacuum to initiate the flow by quickly opening and closing the vacuum control valve.

\*\*\* This step is performed outside the Resprep VM-96 vacuum manifold using an appropriate evaporation device.

### Resprep VM-96 Replacement Parts

Description	cat. #
Valve block assembly	25857
Gasket and O-ring kit	25856
Vacuum gauge	25855

### Questions about this or any other Restek product?

Contact us or your local Restek representative ([www.restek.com/contact-us](http://www.restek.com/contact-us)).

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