



# ZEPHYRUS<sup>®</sup> Vacuum Manifold 96

## Instructions for Use

*Ref. No.: ZVM-96*





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## Overview

The ZEPHYRUS® Vacuum Manifold 96 is designed for DNA/RNA sample preparation with 96 Well Filter Plates supplied in range of EliGene® 96 Vacuum Isolation Kits. The vacuum manifold assembly comes complete with Upper Plate and Lower Plate with attached sealing *rubber O-ring*. Included with the vacuum manifold unit is also *acrylic spacer block* designed to accommodate the standard 96 Deep Well Collection Plate supplied with isolation kits.

The wash chamber can be used either as a simple dump for waste filtrates or as a receptacle for a standard 96 Deep Well Collection Plate. The Upper Plate has *machined recess* that fits our 96 Well Filter Plates and contains a *soft rubber gasket* to ensure the proper vacuum seal. The bottom of Upper Plate has lock groove which corresponds directly to the protruding *rubber O-ring* in the Lower Plate for easy alignment and assembly stability. The acrylic spacer block has been optimized to reduce the space between the receiving Collection Plate and the Filter Plate during vacuum filtration.

## Warnings

Read this manual in its entirety before operating the ZEPHYRUS® Vacuum Manifold 96 and keep the manual for future reference. Vacuum should not exceed 1000 mbar. Always inspect the vacuum manifold for cracks and abrasions before use. It is normal that the acrylic components become less transparent and develop minor hair cracks due to exposure to salts and alcohols contained in purification buffers. If there are any signs of damage, discontinue use.

## Required Equipment Which Is Not Provided

- Oil free ZEPHYRUS® Vacuum Pump ZVP-300 or local vacuum source in your lab capable of at least 100 mbar with flow rate of 23l/min
- External collection reservoir (optional) or PES vacuum bottle (Cat. No. ZVM-300 – 11)
- Silicone Tube 30cm ZVM-300 – 5
- 96 Deep Well Collection Plate

## Features

- **High quality:** Manifold is designed from durable clear acrylic components that are easy to clean
- **Convenient:** manifold works with various oil free vacuum pumps such as ZEPHYRUS® Vacuum Pump ZVP-300
- **Fast vacuum extraction:** The entire protocol takes up to 45 minutes, extracted nucleic acids can be used in any downstream application



- **Compatible:** with EliGene® 96 Well Filter Plates and Deep Well Collection Plate as well as with 48/96/384-well plates from other manufacturers

## Unpacking

**NOTE:** Always handle the ZEPHYRUS® Vacuum Manifold 96 and parts with care.

Carefully remove the system and all accessories from the carton and remove any protective pieces. Check for any shipping damage. In the event of shipping damage, a claim must be filed with the carrier. Check the contents of the package to make sure you have received all the parts ordered:

## Package contents

- (1) Upper plate
- (2) Lower plate
- (3) Wash chamber
- (4) Vacuum nozzle
- (5) Acrylic spacer block (not shown)



(1)



(3)



(2)



(4)

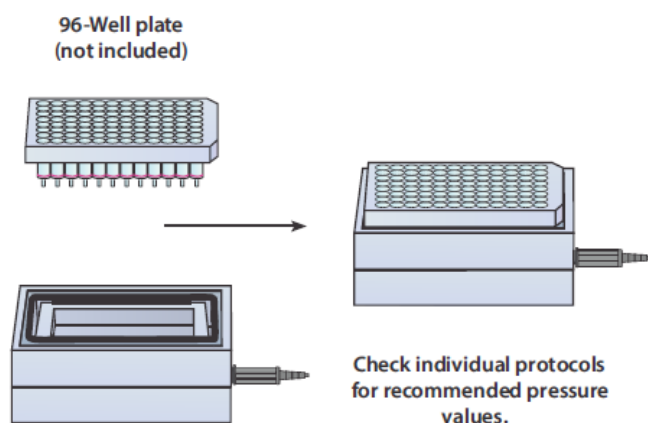
## Instructions

The ZEPHYRUS® Vacuum Manifold 96 provides a simple and efficient high throughput method for isolation of nucleic acids.

1. Accommodate the **Vacuum Nozzle** (4) into drilled hole on one side of the **Lower Plate** (2).
2. Ensure that the **Vacuum Nozzle** (4) is attached to the Lower Plate and screw it until the Vacuum Nozzle Ring fits firmly towards the **Lower Plate** (2).
3. Insert the **Wash Chamber** (3) in the center of the **Lower Plate** (2). It is easily removable in order to discard the flow-through during the protocol.



4. Attach the **Upper Plate** (1) securely on the top of the **Lower Plate** (2), so each corner of both plates is aligned. The only separation between two plates should be made by the sealing *rubber O-ring* in Lower Plate.
5. A wider *soft rubber gasket* in machined recess of **Upper Plate** (1) will create proper seal with the 96-Well Filter Plate included with the EliGene® DNA/RNA isolation kits
6. During the wash steps the flow-through can be aspirated to External collection reservoir or collected the **Wash Chamber** (3). The optional use of 96 Well Deep Collection Plate can be used if no collection reservoir is used.
7. To elute bound nucleic acids remove the use provided acrylic spacer block and put it to bottom of the **Lower Plate** (2), to reduce the space between the receiving 96 Well Deep Collection Plate and the column tips of 96 Well Filter Plate during vacuum filtration. Follow carefully the IFU manual of used EliGene® DNA/RNA isolation kits



## Manufacturer

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