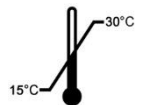


# User's Guide

## ***BioVac***<sup>™</sup> 96 Vacuum Manifold

Cat. no.: A-9030



# **BioVac™ 96**

**Vacuum Manifold**

## **User's Guide**

**Version No.: 1.3 (2016-11)**

**Please read all the information in booklet before using the unit**



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## Safety Warnings and Precautions

This device is for research use only, and should not be used for diagnosis of disease in humans or animals. Do not use internally or externally in humans or animals.

Always wear gloves when treating irritants or harmful reagents.

## Warranty and Liability

All BIONEER products meet strict Quality Control standards, and are warranted to perform as described when used correctly. Problems should be reported immediately, and any liability incurred by BIONEER to the customer is limited to the replacement of the products. The customer must provide full details of the problem to BIONEER within 30 days, and return the product to BIONEER for examination.

## Quality Management System ISO 9001 Certified

All aspects of our quality management system, from product development and production to quality assurance and supplier qualification, have been certified to meet world-class standards.

## QC Testing

Each lot of BIONEER's product is tested in our quality control team as raw material prior to purchase. Acceptable lots are processed and tested again as finished product.

Prior to purchase, each lot of the product is tested by BIONEER's quality control team as raw materials. The acceptable lots are processed and retested as a finished product.

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## 1. Introduction

*BioVac™* 96 Vacuum Manifold is an experimental device that can extract the DNA / RNA / Genomic DNA from 96 samples in a short period of time. *BioVac™* 96 Vacuum Manifold can be used with BIONEER's 96 well prep type kits (plasmid extraction kit of 96, PCR purification kit and Genomic DNA extraction kit). It is also compatible with extraction kit of 96 well type from other companies. To get reasonable results with *BioVac™* 96 Vacuum Manifold, you need to maintain a constant vacuum using a vacuum pump mounted gauges and you need to refer the detailed manual supplied with the extraction kit.



Figure 1. *BioVac™* 96 Vacuum Manifold

## 2. Special Features and Benefits

- (1) You can extract nucleic acid from 96 samples quickly at the same time.
- (2) You can get more reproducible results because it makes a uniform vacuum state from the bottom rather than the side.

### 3. Description of the Components

#### (1) *BioVac™* Body

*BioVac™* Plate Holder, Waste Tray, and 96-well Plate can be mounted at the *BioVac™* 96 Vacuum Manifold Body,.

#### (2) *BioVac™* Plate Holder

*BioVac™* Plate Holder is located in the upper position of *BioVac™* Body.

It is used to be holding 96 well Binding Plate and 96 well Trapping plate.

#### (3) Waste Tray

Waste Tray is located on the inside of *BioVac™* Body.

Waste Tray collects the waste that occurs when extracting a nucleic acid.

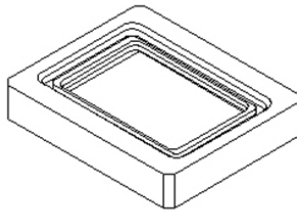
#### (4) *BioVac™* Stand

*BioVac™* Stand holds up the Waste Tray and 96 well Plate so that it can make a free space for vacuum during nucleic acid extraction procedure.

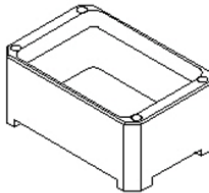
#### (5) Line Adaptor (Option)

This is required when you want to use the connector located on the bottom of the *BioVac™* Body and the size of the vacuum pump connector is different.

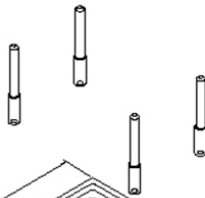
(6) Component Mounting of *BioVac™* 96



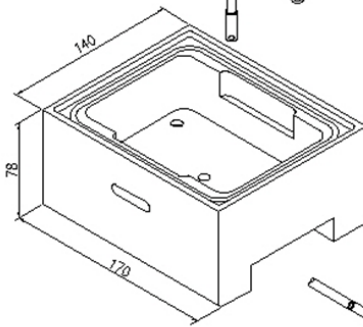
*BioVac™* Plate Holder



*BioVac™* Waste Tray



*BioVac™* Stand



*BioVac™* Body



*BioVac™* Line Adaptor

#### 4. Check Points before Use

Before starting the experiment, please check the following points.

- (1) Make sure that all the components are.
- (2) Make sure the connection that you want to use with a vacuum pump.

#### 5. Pressure Conversion Table

It is highly recommended using the vacuum pump equipped with vacuum gauge to get reasonable results with *BioVac*™ 96 Vacuum Manifold. To use the proper vacuum pressure, refer the following conversion table. The appropriate vacuum is detailed at the DNA / RNA extraction kit manual of BIONEER.

**Table 1. Pressure Conversion**

Pressure conversions	
To convert from millimeters of mercury (mm Hg) to	Multiply by:
Millibars (mbar)	1.3333
Kilopascals (kPa)	0.1333
Inches of mercury (inch Hg)	0.05263
Torrs (Torr)	1
Atmospheres (atmos)	0.001316
Pounds per square inch (psi)	0.0193

## 6. Usage

Refer the below figures to connect *BioVac™* Vacuum Manifold 96 with a vacuum pump and to use correctly.

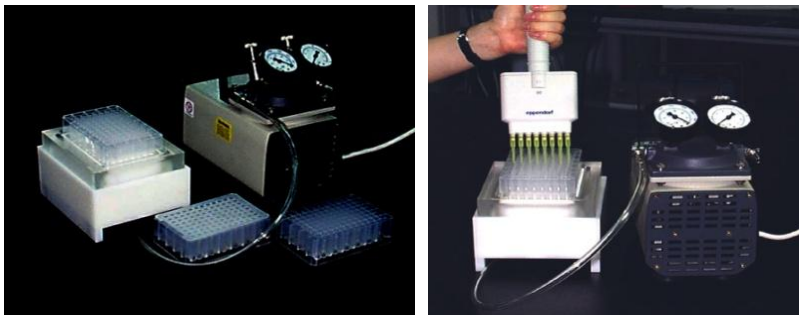


Figure 2. Proper usage of *BioVac™* 96 Vacuum Manifold

## 7. Ordering Information

Cat.No.	Product		
A-9030	<i>BioVac™</i> 96 Vacuum Manifold		
Cat.No.	Product	Reactions	
K-3030-2	<i>AccuPrep™</i> 96 Plasmid Extraction kit	96 well plate x 2	
K-3032-2	<i>AccuPrep™</i> 96 Genomic DNA Extraction Kit	96 well plate x 2	
K-3034-2	<i>AccuPrep™</i> 96 PCR Purification Kit	96 well plate x 2	

## WARRANTY

This Bioneer brand product, as supplied and distributed by Bioneer Corporation, is warranted by Bioneer against manufacturing defects in materials and workmanship for a limited warranty period of one year.

Product	<b>BioVac™ 96 Vacuum Manifold</b>
Catalog No.	<b>A-9030</b>
Serial No.	
Date of Purchase	___ / ___ / _____ (dd/mm/yy)
Warranty Period	For 12 months from purchasing date

### 1. How to request warranty service

Please fill out the service request form attached to this manual and submit it to us by fax or mail. For prompt service, please have the problem log and the experimental file ready before contacting us. For more details, please contact Bioneer Customer Service Center or your local distributor. You may call us at +81-42-930-8777 for minor problems. The service request result will be notified to you within 7 business days and the system will be repaired or replaced within 1~3 weeks.

### 2. Repairs under warranty

During the one-year warranty period, Bioneer will repair all defective products free of charge.

### 3. Exclusion from warranty

The product is excluded from warranty if:

- The product has been found to be defective after expiry of the warranty period.
- The product has been subjected to misuse, abuse, or unauthorized repair, whether by accident or other cause.
- Product is damaged beyond repair due to natural disaster.

Service Request Form			
Product	<i>BioVac™ 96 Vacuum Manifold</i>		
Catalog No.	<b>A-9030</b>	Serial No.	
Date of request			
Date of purchase			
Service Issue	* Please list one service issue or concern per line		
	Issue 1		
	Issue 2		
	Issue 3		
	Issue 4		
Customer Information	Address		
	Company		
	Name		
	Contact	Tel:	Fax:
	E-mail		

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