

# Microfuge Vortex User Guide

Denagene Tajhiz Company  
Biotechnology Lab Equipment manufacturer and designer





## Microfuge Vortex

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[www.Denagene.com](http://www.Denagene.com)

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Thank you for choosing the Microfuge Vortex System from Denagene Tajhiz Company. This operation manual outlines the functions of the instrument. To ensure you can operate it correctly, please read the manual carefully before use. Keep this manual for future reference in case you encounter any difficulties. When unpacking for the first time, please check the instrument and accessories against the packing list. If anything does not match, don't hesitate to contact us.

This manual serves as a valuable resource for all users, whether you are an experienced professional or just starting your scientific journey. It has been meticulously crafted to provide you with a clear understanding of the features, functionality, and proper use of our laboratory equipment.

Within these pages, you will find detailed instructions, diagrams, and troubleshooting guides to help you fully utilize our products. We have organized the content logically to make it easy for you to navigate the manual and quickly find the information you need. Additionally, this manual is a living document that reflects our ongoing commitment to excellence. As we continue to develop and improve our product offerings, we will provide updates and revisions to this manual to ensure you always have the most current information available.

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## Introduction

The Microfuge-Vortex (Spin-Vortex) apparatus is one of the centrifuge family devices capable of performing vortexing and centrifugation operations on samples. Its primary application is in cellular and molecular laboratories, where the microfuge vortex serves as a fundamental apparatus in these laboratories.

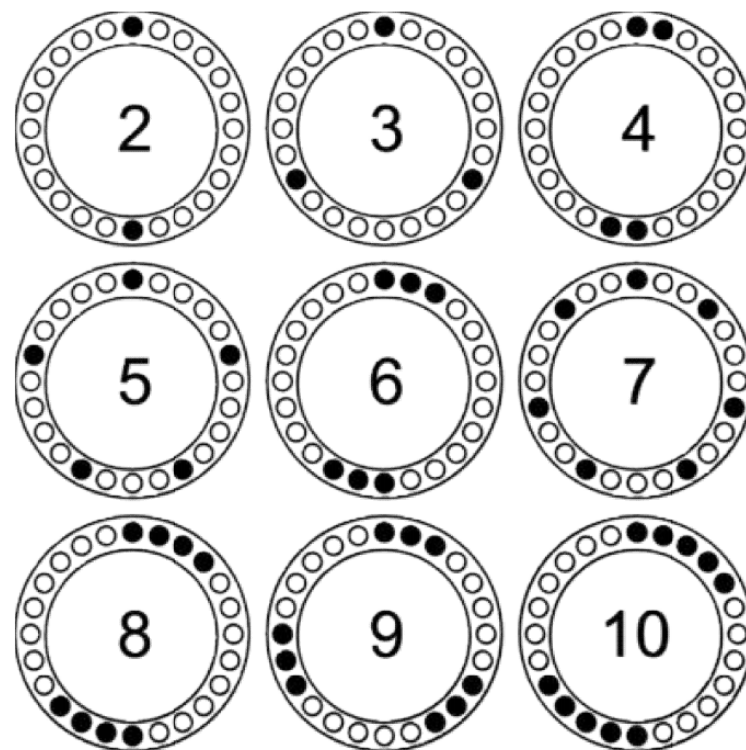
## Safety Instruction

- Place the apparatus on a level surface.
- Securely tighten the screw on the device head.
- Ensure that the sample lids are securely closed before placing them for mixing.
- Do not use the apparatus in a high-humidity environment.
- Connect the apparatus only to a power source with the appropriate voltage.
- Disconnect the apparatus from the power source before any movement.
- Protect the apparatus from shaking and falling.



## How to Use

1. First, unpack the device.
2. Place the device on a smooth and level surface.
3. Initially, place the head and then the white washer on the apparatus shaft, and then tightly secure the screw on the head.
4. Connect the power cable at the back of the apparatus to a power source.
5. By pressing the power button, the apparatus will be ready to use. Now, you can perform microfuge action by pressing the continuous button and vortex action by pressing the skip button.



Sample Loading Configuration on the Microfuge-Vortex Apparatus



## Maintenance

- In case of any issues with the apparatus, never attempt to open it, and promptly contact Denagene Tajhiz Company's Technical department.
- Avoid using strong corrosive substances such as acetone and benzene to clean the apparatus.
- It is advisable to clean the apparatus using a soft, damp cloth.

## Technical Specification

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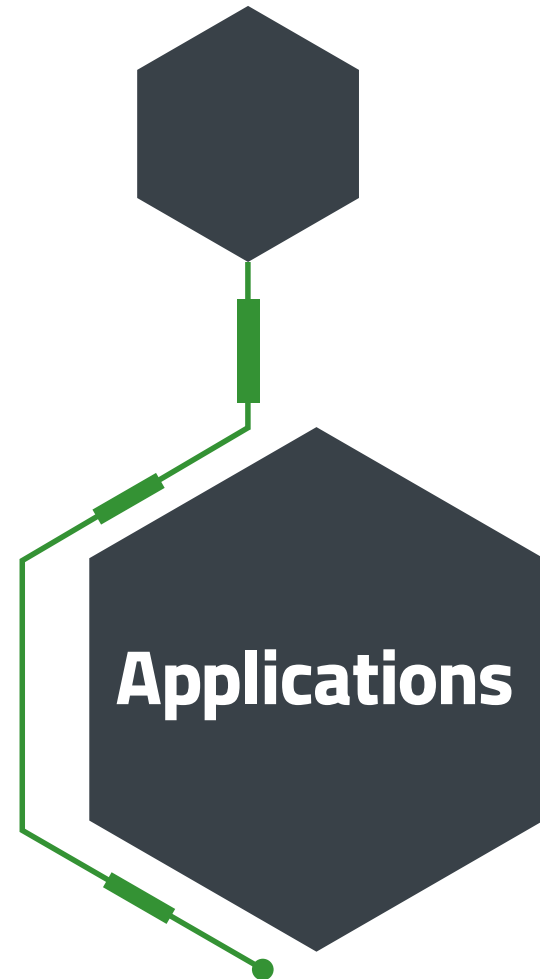
Model	D-3000
Maximum Speed	3000 rpm
Capacity	ml 0.2   ml 0.5   ml 1.5
Input Voltage	220 V 60-50 Hz
Dimension	20 cm x 15 cm x 11 cm
Weight	3.6 kg
Vortexing Capability	yes



The Microfuge-Vortex finds applications in various biological science fields, including but not limited to:

- **Molecular Biology**
- **Cell culture**
- **PCR (Polymerase Chain Reaction)**
- **Genetic Engineering Research**
- **Nanobiotechnology**
- **Microbiology**
- **Chemical Engineering**

The Microfuge-Vortex, manufactured by Denagene Tajhiz Company, stands out as an excellent choice for users and researchers due to its user-friendly design, affordable pricing, and excellent warranty and after-sales service conditions.





## Warranty and After-Sales Service

- Denagene Tajhiz Company provides a one-year warranty for the Vortex Mixer.
- The Vortex Mixer, manufactured by Denagene Tajhiz Company, comes with 10 years of after-sales service.



## Documentation and Support

To obtain support for the latest services and support information for all locations, go to:

[www.Denagene.com](http://www.Denagene.com)

At the website, you can:

- Access worldwide telephone and fax numbers to contact Technical Support and Sales facilities
- Search through frequently asked questions (FAQs)
- Submit a question directly to Technical Support
- Search for user documents, SDSs, vector maps and sequences, application notes, formulations, handbooks, certificates of analysis, citations, and other product support documents
- Obtain information about customer training
- Download software updates and patches

