

# OPERATING MANUAL

## VORTEX MIXER<NB-105V>

### Introduction

NB-105V is a general purpose laboratory vortex mixer. Mixing speed is steplessly adjustable to 3,000RPM. Three positions switch allows the mixer to be operated continuously or by "touch" activation. The heavy metal base and rubber feet prevent the unit from "walking" across the bench, even at maximum speed.

### Warranty

N-BIOTEK warrants that NB-105V, Vortex Mixer is produced complying its published specification. NB-105V is guaranteed to be free of defects in materials and workmanship for a period of one year from the date of purchase. This guarantee is valid only if the unit has been used in accordance with the instructions in this manual and for its intended purpose. N-BIOTEK shall not be responsible for consequential damages or damages resulting from the abuse or misuse of this equipment. Liability of N-BIOTEK shall be limited to the repair or replacement of the unit or refund of the purchase price at N-BIOTEK's discretion.

### Specifications

Shaking speed : 0 – 3000 RPM

Operation : Continuous or "touch"

Voltage requirements : 220V, 60Hz

### Unpacking and Installation

Upon receipt of the NB-105V, examine the exterior carton for damages. (Vortex mixer with shaking head)

Verify that the unit is rated for the proper voltage by checking the panel on the back. Check that the proper power cord has been received. The serial number of the unit is located on the back panel. Locate the mixer on a level, stable surface near a grounded electrical outlet. With the power switch in the OFF position, plug the power cord into a grounded receptacle.

### Operation NB-105V Vortex Mixer

The power switch, located on the left side of the panel, has three positions –TOUCH, OFF and ON. When set to the TOUCH position, the mixer is activated by depressing the mixing head. When set to the ON position, the mixer will operate continuously until the switch is moved to either the OFF or TOUCH position.

The speed control on the right side of the panel, is continuously adjustable. Oscillating speed increases at non-uniform rate to a maximum of 3,500RPM as the knob is turned clockwise. Before turning on the mixer, set the speed control to the minimum.

### Safety Precautions

The following precautions should be taken when operation or working.

Never operate without a shaking head securely attached.

Shake hazardous samples in appropriate containment vessels.

Service and repairs must be performed only by qualified professionals.

### Accessories

Three additional shaking heads are available for the Vortex mixer. To change heads remove the vortexing head by slowly peeling it upward off the post. An optional head can then be placed on the post and secured with the screws provided.

Optional shaking heads are as follows;

NB-105V02 Platform Head / NB-105V03 Micro plate kit / NB-105V04 Multi sample plate kit

### Care and Maintenance

Warning : Disconnect vortexer from power source before attempting any cleaning or maintenance procedures.

After each use, wipe down the mixer with a soft cloth. Do not immerse the unit or pour liquids over it as electrical shock may occur. If required, the shaking head may be removed. The head may then be cleaned with a mild detergent. Be sure the head is thoroughly dry before replacing on the unit.

### Contact us

If you have a question about NB-105V, contact your dealer or international sales team of N-BIOTEK directly.