

**Do not exceed the "Accessory Max" speed setting when using any accessory heads. Doing so can cause damage to the vortex mixer.**

Optional shaking heads are as follows:

S0200-21	Microtube head, foam, for 80 tubes
S0200-22	Microplate head, foam, for 1 microplate or 64 x 0.2mL tubes
S0200-23	10-13mm and 15mL tube head, for 16 tubes
S0200-24	50mL tube head, for 6 tubes
S0200-25	Head for 12 x 1.5ml tubes, held horizontally
S0200-26	Head for 4 x 15 ml tubes, held horizontally
S0200-27	Head for 2 x 50 ml tubes, held horizontally

Contact your Labnet dealer for information about ordering additional heads

### **Care and Maintenance**

**Warning: Disconnect the 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. Clean up any spills immediately taking the proper precautions. If required, the shaking head may be removed. First, disconnect the vortexer from the power source and then remove the combo-cup head by holding the housing securely while pulling up on the head. The head may then be cleaned with a mild detergent. Be sure the head is thoroughly dry before replacing it on the unit.

The motor and shaking mechanism in the Vortex Mixer require no routine maintenance or lubrication.

### **Where to Call**

If you have a question about the Vortex Mixer, contact Labnet's Customer Service Department at 732 417-0700, Monday through Friday, 8:30am to 5:00pm EST

For service inquiries, contact Labnet's Service Department at 732 417-0700, 9:00am to 5:00pm, Monday through Friday, EST. Before returning any unit for service, a Return Authorization (RA) number must first be obtained. Equipment sent in without prior authorization will be returned at the customer's expense. When returning a unit to Labnet for service, it should be sent in the original packaging. If this is not possible, be sure that the unit is sufficiently packed. Any damage resulting from improper packaging is the responsibility of the customer. A written explanation should accompany the unit along with the RA number.



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# **Instruction Manual**

# **Vortex Mixer**

Cat.# S0200  
S0200-230V-EU  
S0200-230V-UK  
S0200-230V-CH

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## Introduction

The Labnet Vortex Mixer is a general purpose laboratory vortexer. Mixing speed is adjustable up to 3,400rpm. A three position switch allows the mixer to be operated continuously or by “touch” activation. The shaking mechanism is specially designed to offer enhanced stability under various loads. The metal base-plate and rubber feet provide additional stability and prevent the unit from “walking” across the bench, even at maximum speed.

Read this manual thoroughly before attempting to operate the Vortex Mixer. All persons operating this piece of equipment should review the Safety Precautions section of this manual.

## Specifications

Speed Range	200-3400rpm (120V) 200-2850rpm (230V)
Operating Modes	Touch or Continuous
Ambient Operating Range	+4°C to 65°C
Dimensions(w x d x h)	14 x 16 x 12 cm
Weight	2.2 Kg
Electrical	120V, 60Hz, 0.5A 230V, 50Hz, 1.0A

## Unpacking the Vortex Mixer

Upon receipt of the Vortex Mixer, examine the exterior carton for damages. In the event of shipping damage, a claim must be filed with the transportation carrier within 10 days of receipt. Save all packaging for inspection by the carrier.

Carefully unpack the unit and check for completeness. Included in the carton should be the following:

- Vortex mixer with Combo-cup head
- Line cord
- Instruction manual
- Warranty card

If any of these items are missing, contact Labnet International's Customer Service Department immediately. Save the original packaging until the unit has been shown to be operating properly.

Verify that the unit is rated for the proper voltage by checking electrical / serial no. label on the back.

## Installation

Locate the mixer on a level, stable surface near a grounded electrical outlet. The surface should be clean and free of dust to ensure that the feet grip the surface firmly. Allow sufficient clearance on all sides of the unit for proper ventilation.

With the power switch in the OFF position, plug the power cord into a grounded receptacle.

## Operating the Vortex Mixer

All operating controls are located on the front panel. 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 pressure is released from the mixing head, operation will stop. 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, located on the right side of the panel, is continuously adjustable. Oscillating speed increases at a nonuniform rate to a maximum of 3,400rpm as the knob is turned clockwise. Before turning on the mixer, set the speed control to the minimum.

To begin operation, move the power switch to either the TOUCH or ON position and turn the speed control to the desired setting. If the power switch is in the ON position, the shaking head will begin moving immediately. If the power switch is in the TOUCH position, operation will begin when an object is placed on the shaking head and slight pressure is applied to depress the head. Shaking will cease when the object is removed and pressure released.

## Safety Precautions

The following precautions should be taken when operating or working near the Vortex Mixer:

- **Never operate the unit without a shaking head securely attached.**
- **Always wear shatterproof eye protection.**
- **Do not use or mix solvents and flammables on or near the mixer.**
- **Shake hazardous samples in appropriate containment vessels.**
- **Repair should be performed only by qualified individuals**

## Accessories

Several additional shaking heads are available for the Vortex Mixer. To change heads, remove the combo-cup head by holding the housing securely while pulling up on the head. An optional head can then be placed on the drive post and secured by pressing down firmly on the head. **When removing the accessory heads, pull up on the black plastic connector only.** Pulling up on the foam or metal plate can cause damage to the accessory head.