

# Mini/Fuge Vortex

## Safety requirements and Instruction Manual

Catalog No.:



Tehran I392

## Safety Information

Use the high level of precautions against any electrical device. Before connecting with the electrical supply, check the supply voltage is within the range stated at the rating label, and this device must be earthed. Place the unit in a safe and dry location and **MUST NOT** touch things in the surrounding

### Avoiding Electrical Shock

Follow the guidelines below to ensure safe operation of the unit.

The Mini/Fuge vortex has been designed for use with shielded wires thus minimizing any potential shock hazard to the user. Kiagen recommends against the use of unshielded wires.

To avoid electrical shock:

1. It must be dried out for a period of time, at least 2 hours, and restore it to **NORMAL CONDITION** before the operation.
2. **NEVER** connect or disconnect wire leads from the power jacks when the power is on.
3. **WAIT** at least 5 seconds after stopping a run before handling output leads or connected apparatus.
4. **ALWAYS** make sure that hands, work area, and instruments are **clean** and **dry** before making any connections or operating the equipments.
5. **ONLY** connect the power cord to a properly grounded AC outlet.

### Avoiding Damage to the Instrument

1. Do not attempt to operate the device if damaged.
2. Protect this unit from physical damage, corrosive agents and extreme temperatures (direct sunlight etc).
3. For proper ventilation and safety concerns, leave at least 10 cm of space behind the instrument, and at least 5 cm of space on each side.
4. Do not operate the mini/fuge vortex in high humidity environments (> 95%), or where condensation may occur.
5. Before using any cleaning or decontamination method except those recommended by the manufacturer, users should check with the manufacturer that the proposed method will not damage the equipment.

## Equipment Operation

### Product Specifications

Rotor for 0.2, 0.5 &1.5 tubes	10 +10+10 sockets
Rotor for 0.2 ml tube	32 sockets
Rotation speed	2800 rpm
Time of acceleration	2 sec.
Power consumed	50 watts
x 15 cm Voltage	Dimension 16 x 14 220 V, 50 Hz

## Product Description

- ⇒ *Designed for used in genetic engineering laboratories.*
- ⇒ *It is a combination of microfuge and vortex.*
- ⇒ *Easy to work and very practical.*
- ⇒ *Rotor designed for 0.5 & 1.5 ml tubes.*
- ⇒ *Structure is very simple and unique.*
- ⇒ *Personal microcentrifuge/vortex designed for investigation in the field of genetic engineering, molecular biology, ecological monitoring, industrial laboratories, etc.*

## Maintenance

Mini/Fuge vortex may be cleaned with a moist cloth containing a mild soap solution. The blocks are aluminum and may be cleaned with any of the commercial aluminum cleaners on the market.

## Warranty

kiagen warrants apparatus of its manufacture against defects in materials and workmanship, under normal service, for **one year from the shipping date to purchaser**. This warranty excludes damages resulting from shipping, misuse, carelessness, or neglect. kiagen's liability under the warranty is limited to the receipt of reasonable proof by the customer that the defect is embraced within the terms of the warranty. All claims made under this warranty must be presented to kiagen within two years following the date of delivery of the product to the customer.

### Manufacturer:

Kiagen Teb Sadra Co., Ltd.

[www.kiagen-biotech.com](http://www.kiagen-biotech.com)