



SilentShake[®]

Mini Mixer

User's Manual



Crystal Technology & Industries, Inc

15151 Surveyor Blvd., Suite B, Addison, TX 75001, USA

Tel: 972-934-2525 Fax: 972-934-2526

Web: www.crystalindustries.com

Table of Contents

Introduction.....1

Cautions for Usage.....1

Receiving and Inspection.....2

Features.....3

Specification.....3

Operation Instructions.....3

Maintenance.....4

Packing list.....4

Warranty Card.....5

Introduction

Thank you for choosing CTI's product. This product can be used in a variety of laboratory applications and work with a number of different sized tubes.

Before you use the unit, please read this entire manual carefully to understand how to operate, and maintain. Your satisfaction with the unit will be increased if you take the time to read about its safety and operational notices.

Keep this manual on-hand so it can be used by all operators of the unit. Be sure all operators of the unit are given appropriate training before you put the unit in service.

Cautions for Usage

1. Be sure you follow any city, county, or other ordinances in your area regarding the use of this unit.
2. Use only approved accessories. Do not modify system components. Any alterations or modifications to your instrument may be dangerous and will void your warranty.
3. Do not modify the power cord provided with the unit. If the plug does not fit an outlet, have a proper outlet installed by a qualified electrician.
4. Please only use the enclosed power supply adaptor to with the unit.
5. Place the unit on a level and sturdy surface to avoid vibration and noise.
6. Be mindful of liquid level to avoid splashing while stirring.
7. A pressure of 0.8 Kg is enough to activate the touch "start" mechanism.
Please avoid excessive pressure.
8. Keep the unit stable when in operation.
9. Do not mix any flammable or any hazardous liquids.
10. DO NOT clean the unit with any corrosive or flammable liquids.

Receiving and Inspection

Your satisfaction and safety require a complete understanding of this unit, including its proper function and operational characteristics. Be sure operators are given adequate training before attempting to put the instrument in operation.

1.1 Inspection: Upon delivery please inspect the package for visible exterior damage, note and describe on the freight bill any damage found and enter your claim on the form supplied by the carrier.

1.2 Inspect for concealed loss or damage on the unit itself, If any, the carrier will arrange for official inspection to substantiate your claim. Save the shipping crate until you are sure the unit has been delivered in good condition.

1.3 Return Shipment: If for any reason you must return the unit, please contact your distributors customer service department.

1.4 Accessories: Make sure that all of the equipment indicated on the packing slip is included with the unit. Carefully check all packaging materials before discarding.

Features

- Small size
- Easy operation
- Touch activation mode

Specifications

Model				Power Supply	Plug
VM-03UA	VM-03RUA	VM-03GUA	VM-03PUA	AC100-240V, 50/60Hz, 5Watts	US
VM-03UW	VM-03RUW	VM-03GUW	VM-03PUW		E-EN-AU
VM-03USA	VM-03RUSA	VM-03GUSA	VM-03PUSA		SA
Working Gasket Colour					
Blue	Red	Green	Purple		
Speed			3000rpm		
Orbital Diameter			4.5mm		
Capacity			Max. 80ml		
Tube Diameter			Max. 30mm		
Ambient			5-40°C, ≤80%RH		
Dimensions (Φ×H)			95×85mm		
Weight			0.55kg		
IP rating (DIN EN 60529)			IP 40		
Certifications			CE Marked		

Operation Instructions

1. Please connect the unit to the power supply.
2. Place the tube on the top socket.
3. Press the tube slightly, and the unit will start shaking.
4. Lift the tube, and the unit will stop shaking.

Maintenance

For safe use, please follow the directions below:

- Unplug the power cord before cleaning.
- Clean the unit with soft cloth and non-corrosive liquid (PH<8).
- DO not spray the unit with liquids.
- Make sure the unit is completely dry before use.
- Make sure there aren't any hazardous materials in the unit prior to maintenance.

Packing List

Description	Quantity	Remark
Vortex Mixer	1	✓
User's Manual	1	✓
Adapter	1	
Adapter Converter	1	

WARRANTY CARD

Save this card carefully please. When you need service, contact the service company with card & invoice.

Warranty Card

User Name		Telephone	
Address			
Zip Code		E-mail	
Product Name		Model	
Serial number		Purchase Date	

● **Warranty Scope:**
 1. Warranty period is 24 Months from purchase date.

● **Warranty is not valid under the following circumstances:**
 1. Warranty term is expired.
 2. Damage due to improper use, maintenance or handling.
 3. Unmatched serial numbers, or modification of serial numbers.

Customer service hotline: 972-934-2525
 User: the above information should be completed by the seller.

Maintenance records

The following should be completed by maintenance staff.

First	Name of service		Maintenance date	
	Address		Telephone	
	Maintenance sheet number		Maintenance staff signature	
Second	Name of service		Maintenance date	
	Address		Telephone	
	Maintenance sheet number		Maintenance staff signature	
Third	Name of service		Maintenance date	
	Address		Telephone	
	Maintenance sheet number		Maintenance staff signature	