

# MINI Instruction manual CENTRIFUGES



## Chemglass Life Sciences

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Please read the manual carefully before operating.

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## Introduction:

Thank you for choosing ChemGlass' s product. Mini centrifuges are popular laboratory equipment used in clinical, environmental and industrial research. These personal centrifuges are ideal for quick spins, filtrate of samples, cell separations and more.

The MLX mini centrifuge provides two rotors, micro-tubes and another for use of 0.2ml PCR strip tube. The 6 x 1.5 ml rotor is designed to centrifuge up to six individual 1.5 ml plastic micro-centrifuge tubes. It will also accept 0.5 ml and 0.4 ml tubes with the adapters supplied with the unit. Adapters are available separately for 0.2 ml tubes. The strip tube rotor is designed to centrifuge two 8 x 0.2 ml strip tubes. It will also accept up to 16 individual 0.2 ml 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. Never operate the centrifuge without a rotor fixed to the shaft.
5. Never fill tubes while they are in the rotor, liquid spillage may harm unit.
6. Never put hands in the rotor area unless the rotor is completely stopped.
7. Never move the centrifuge while the rotor is spinning.
8. Always load the rotor symmetrically. Each tube should be counterbalanced by another tube.

## 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.

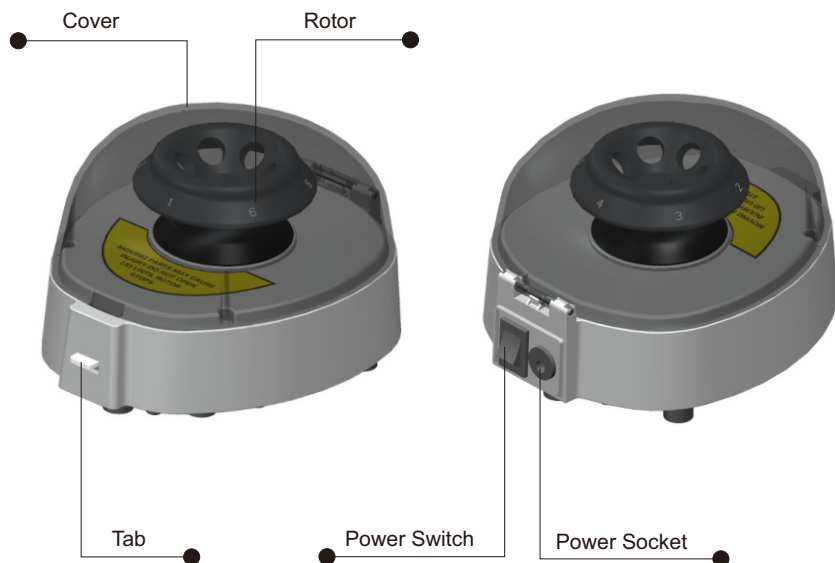
## Features:

- Ergonomically designed with small footprint.
- The clear cover made of high strength plastic affords high visibility of samples;
- Mini centrifuges are manufactured to precise specifications using the highest grade materials, resulting in smooth runs;
- With open lid cut off switch, the mini centrifuge units will stop automatically when the lid is open;
- Digitally controlled power circuitry ensures precise rotating speed;
- Different sized tubes can be centrifuged using our comprehensive selection of accessories.

## Specifications :

Model	MLX-308-CLS
Speed	6000 (rpm)
G-force(RCF)	2000(g)
Noise Level	≤60dB
Environmental Temperature	5°C -40°C
Relative Humidity	≤80%
Weight	≤1Kg
Standard Heads	Head for 8 Tubes ( in 2 rows):8x0.2ml Standard Head: 6x1.5ml
Figure Dimensions	128×162×100mm
Safety Feature	Open Lid Cut Off Switch
Power Supply	AC 100-240V, 50/60Hz
Certifications	CE Marked

## Structure:



## Replacing Rotors:

The centrifuge provides two interchangeable rotors. These are easily replaced using the Allen key provided.

### ◇ Remove rotor:

Remove the screw under the rotor with the Allen key. Pull up the rotor from the motor shaft and remove it.

### ◇ Reassemble rotor:

Put the other new rotor to the motor shaft. Take care not to press the rotor down so far as to compress the rubber collar at the base of the shaft. Fix the screw with the Allen key until it is tight.

◇ Never over-tighten the screw to prevent damaging the rotor or motor shaft.

## Exchanging Rotors:



## Operation Instruction:

### A. Turn on the unit:

For Single Speed Models: Put "Power" rocker switch to position (I).

For Multi Speed Models: Select desired speed by dip switch at right. Then put "Power" rocker switch to position (I).

- ◇ Before you start the machine, you must close the cover.
- ◇ Safe operation of the centrifuge requires that the rotor be loaded in a balanced fashion.
- ◇ The independent tubes, strip tubes and adapters must always be loaded symmetrically to ensure proper balance.
- ◇ Never start the centrifuge with one strip tube in place only.

### B. Turn off the unit:

Put "Power" rocker switch to position (O).

After the rotor stops, open the cover with the hand lever on the front, and then take out the tubes.

## Maintenance:

- ◇ Before using any cleaning or decontamination methods except those recommended by the manufacturer, check with the manufacturer that the proposed method will not damage the equipment.
- ◇ Clean the centrifuge with damp cloth and non-corrosive detergent (pH<8).
- ◇ Do not immerse the centrifuge in liquid or pour liquids over it.
- ◇ After cleaning, ensure all parts are dried thoroughly before attempting to operate the unit.







## Trouble Shooting:

For troubleshooting, please refer to the table below. If the problem is not resolved, please contact the seller.

Troubles	Reason	Solution
Not spinning	The power is off	Turn on the power Plug the power cord
	The fuse is broken	Replace it(1A/250V)
The work is not normal	The unit is not steady	Stabilize unit
	Tubes are not symmetrical	Load tubes symetrically
	Tubes are not balanced	Load balanced tubes
	The centrifuge tube's lid is not closed	Close lid
	The centrifuge tube is broken	Replace tube
	Tubes are mixed sizes	Use similar tubes

## Accessories:

Description	Model	Picture
Adapter for 0.5ml Centrifuge Tube	MLXF-1	
Adapter for 0.2ml Centrifuge Tube	MLXF-2	
0.2ml 8-Place PCR Strip Rotator	MLXF-3	
1.5mm Allen Key		

## Packing List:

Description	Qty	Remark
Machine	1	
Power Adaptor	1	
Power Cord	1	
Instruction Manual	1	
1.5mm Allen Key	1	
Optional Accessory	MLXF-1	6
	MLXF-2	6
	MLXF-3	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: **1-800-843-1794**  
 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	