

CORNING | LSE™ Mini Microcentrifuge

## INSTRUCTION MANUAL

### Models:

6765 -- 120/100V US

6766 -- 230V EU

6767 -- 230V UK



## Warnings

The following precautions should be taken when operating or working near the Corning® LSE™ Mini Microcentrifuge:

- NEVER** use the centrifuge in any manner not specified in these instructions.
- NEVER** operate the centrifuge without a rotor properly attached to the shaft.
- NEVER** fill tubes while they are in the rotor. Liquid spillage may harm unit.
- NEVER** put hands in the rotor area unless the rotor is completely stopped.
- NEVER** move the centrifuge while the rotor is spinning.
- NEVER** use solvents or flammables near this or other electrical equipment.
- NEVER** centrifuge flammable, explosive or corrosive materials.
- NEVER** centrifuge hazardous materials outside of a hood or proper containment facility.
- ALWAYS** load the rotor symmetrically. Each tube should be counterbalanced by another tube. Weight of individual tubes may not exceed 3.0 g.
- ALWAYS** locate the centrifuge within easy access to an electrical outlet.
- ALWAYS** use only microcentrifuge tubes made from plastic and designed to withstand centrifugal forces of at least 2,000 xg.

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## Operating Conditions:

The Corning® LSE™ Mini Microcentrifuge is designed to be safe under the following conditions:

- For indoor use only
- Altitude up to 2000 meters
- Ambient temperature of 4°C to 65°C.
- Maximum relative humidity 80% for temperatures up to 31°C then decreasing linearly to 50% relative humidity at 40°C
- Main supply voltage fluctuations not to exceed  $\pm 10\%$  of the nominal voltage
- Installation Category II
- Pollution Degree 2
- Position at least 30 cm from walls, 30 cm from ceilings and 30 cm between mixers if using multiple units

## General Information:

The Corning® LSE™ Mini Microcentrifuge is supplied with two rotors, one for microtubes and one for 0.2 mL PCR strip tubes. The 8 x 1.5/2.0 mL rotor is designed to centrifuge up to eight individual 1.5.2.0 mL plastic microcentrifuge 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 four 8 x 0.2 mL strip tubes. It will also accept up to thirty two individual 0.2 mL tubes. Both rotors are designed for applications requiring relatively low g-forces, such as microfiltration, cell separation and quick spin downs from the walls of tubes. Please read this manual thoroughly before attempting to operate the centrifuge.

## Specifications:

Dimensions... .....6" x 6" (153 x 153 mm)  
Electrical .....115V, 60Hz, 130mA or 240V, 50/60Hz, 65mA  
Fuse..... 0.5A, 250V (F)  
Speed ..... 6000rpm  
RCF..... 2000 x g

## Spare Parts:

Replacement 1.5 mL rotor  
Replacement strip rotor  
Replacement allen wrench  
Replacement fuses  
Contact Corning Customer Service for ordering information.

## Exchanging Rotors:

The centrifuge is supplied with two interchangeable rotors. The rotors are easily exchanged using the allen wrench provided. Locate the set screw on the rotor shaft

below the rotor head. Using the wrench, loosen the set screw and pull up on the rotor to remove. Place the other rotor into position on 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. Tighten the screw using the allen wrench until finger tight. Do not overtighten as this will cause damage to the rotor and the motor shaft.

### **Operation:**

Before operating the centrifuge, be sure that the power switch is in the “on” position. To begin a run, simply close the lid of the centrifuge. No other controls are required. To stop rotation, press the lid release button on the front of the unit. This will release the lid lock and the rotor will slow gradually to a complete stop. **CAUTION:** Do not attempt to open the lid or remove samples until the unit has come to a complete stop. After the rotor has stopped, the lid may be opened by grabbing it with the thumb on the front and fingers on the back, then lifting the lid back on the hinge.

Safe operation of the centrifuge requires that the rotor be loaded in a balanced fashion. Failure to load the rotor properly presents a hazardous condition and may damage the centrifuge. Individual tubes, strip tubes and/or adapters must always be loaded symmetrically to ensure proper balance. Never run the centrifuge with only one strip tube in place.

### **Cleaning:**

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. To clean the centrifuge, use a damp cloth and a mild, noncorrosive detergent (pH <8). After cleaning, ensure all parts are dried thoroughly before attempting to operate the unit. Do not immerse the centrifuge in liquid or pour liquids over it.

### **Service and Repair Information**

If you have a question about the Corning® LSE™ Mini Microcentrifuge or have a service inquiry, contact Corning Customer Service immediately at:

- 1.800.492.1110 (for toll-free calling within the U.S. and Canada)
- 1.978.442.2200 (outside the U.S.), or
- Contact your local Corning support office listed in the back of this manual.

Before returning any unit for service, a Return Authorization (RA) number must first be obtained. Equipment sent in without out prior authorization will be returned at the customer’s expense. When returning a unit to Corning 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.

## Warranty Statement

Corning Incorporated (Corning) warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of purchase. CORNING DISCLAIMS ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Corning's sole obligation shall be to repair or replace, at its option, any product or part thereof that proves defective in material or workmanship within the warranty period, provided the purchaser notifies Corning of any such defect. Corning is not liable for any incidental or consequential damages, commercial loss or any other damages from the use of this product.

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in the supplied instruction manual. This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover motor brushes, fuses, light bulbs, batteries or damage to paint or finish. Claims for transit damage should be filed with the transportation carrier.

In the event this product fails within the specified period of time because of a defect in material or workmanship, contact Corning's Customer Service at the following numbers: USA: 1-800-492-1110; Canada: 1-978-442-2200. For other regions of the world, please visit [www.corning.com/lifesciences](http://www.corning.com/lifesciences) or see the included instruction manual for a list of World Wide Support Offices.

Corning's Customer Service team will help arrange local service where available or coordinate a return authorization number and shipping instructions. Products received without proper authorization will be returned. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton, padded to avoid damage. Corning will not be responsible for damage incurred by improper packaging. Corning may elect for onsite service for larger equipment.

Some states do not allow limitation on the length of implied warranties or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights. You may have other rights which vary from state to state.

No individual may accept for, or on behalf of Corning, any other obligation of liability, or extend the period of this warranty.

For your reference, make a note of the serial number, date of purchase and supplier here.

Serial No. \_\_\_\_\_ Date Purchased \_\_\_\_\_

Supplier \_\_\_\_\_

## Product Disposal



This symbol, if present on the product, indicates that the product was planned for use in a country complying with the Waste Electrical and Electronic Equipment EU Directive, 2002/96/ED. This symbol indicates that this equipment must not be disposed of with unsorted municipal waste. It is the product user's responsibility to correctly dispose of waste equipment by handing it over to an authorized facility for separate collection and recycling. It is the product user's responsibility to decontaminate waste equipment from biological, chemical, and/or radiological hazards prior to disposal.

Additional information pertaining to the disposal of Corning per the WEEE Directive can be obtained at [www.corning.com/weee](http://www.corning.com/weee).

Please register your warranty online at  
<http://www.corning.com/lifesciences/warranty>

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