

# Mini Centrifuge User Manual

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**C1601-B**  
**C1601-R**

**C1601-P**  
**C1601-G**



**Labnet**  
Labnet International

## ***Product Overview:***

***The Labnet 1601 Mini Centrifuge provides comprehensive designs for a wide variety of life science research applications. Smart and stable running can deliver accurate and reliable experimental results from one experiment to another.***

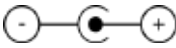
## ***About This Manual:***

***This manual is designed to assist you in the optimal usage of your Labnet Mini Centrifuge. The manual is available in English, French, German, Italian, Portuguese, and Spanish on our website at:  
[www.labnetinternational.com](http://www.labnetinternational.com)***

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## 1.0 Specifications

Dimensions	5.9 x 5.9 4.6 in/15 x 15 x 11.6 cm
Weight	2.65 lbs/1.2kg
Electrical	AC 100 -- 240V,50/60Hz, 0.35
Unit Input	24VDC 1A 
Maximum Speed/RCF	6000rpm/2000 x G

### 1.1 Environmental Conditions

Indoor use only  
Altitude up to 2000m  
Temperature 5°C to 40°C  
Maximum relative humidity 80% for temperature up to 30°C decreasing linearly to 50% relative humidity at 40°C  
Pollution degree 2

## 2.0 General Information

The Labnet C1601 Mini Centrifuge is supplied with two rotors, one for micro tubes and one for 0.2ml PCR strip tubes. The 8 place rotor is designed to centrifuge up to eight individual 1.5/2.0ml plastic micro centrifuge tubes. It will also accept 0.5/0.6ml, 0.4/0.25ml and 0.2ml tubes with the adapters supplied with the unit. The strip tube rotor is designed to centrifuge four 8 x 0.2ml strip tubes. It will also accept up to 32 individual 0.2ml 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.

## 3.0 Safety Precautions

**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

**NEVER** try to continue operating the centrifuge if the centrifuge stops working prematurely.

Stop the centrifuge immediately by turning off the main power switch on the back side of the centrifuge. Wait one minute before turning on the main power switch to operate the centrifuge again.

**ALWAYS** load the rotor symmetrically. Each tube should be counterbalanced by another tube. Weight of individual tubes may not exceed of 3.0g.

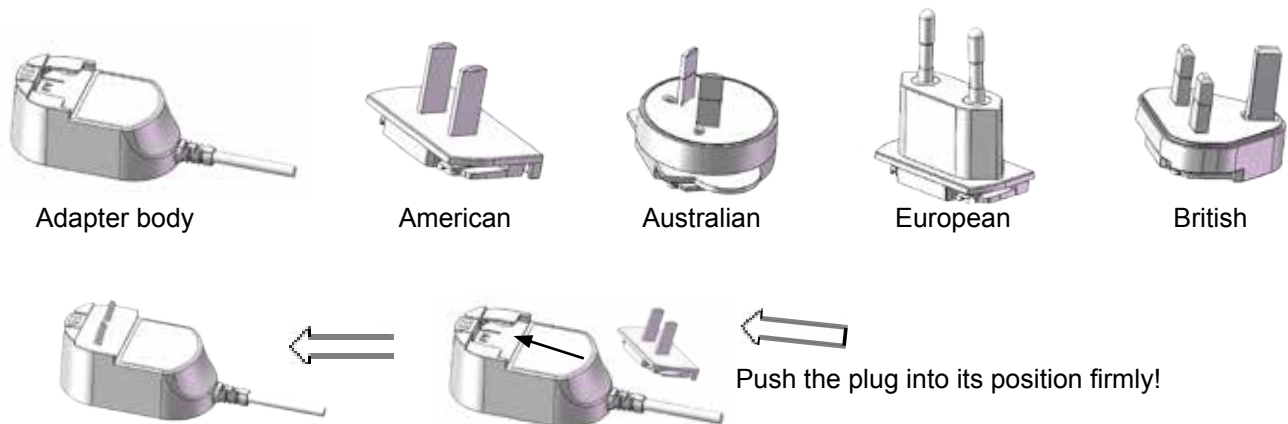
**ALWAYS** locate the centrifuge within easy access to an electrical outlet.

**ALWAYS** use only micro centrifuge tubes made from plastic and designed to withstand centrifugal forces of at least 2,000 x g.

*If the centrifuge is used in a manner not specified by the manufacturer, the protection provided by the centrifuge may be impaired.*

## 4.0 Installation

1. Make sure to always install the centrifuge on stable flat surfaces only
2. Place the centrifuge near the electrical outlet
3. Power adapter instructions
- 3.1 Power adapter components



## 5.0 Operation

Before operating the centrifuge, be sure that the power switch on the back of the unit is in the “on” position. To begin a run, simply close the lid of the centrifuge. No other controls are required.

- **Fast stop**  
Press down and release the tab on the front of the lid. This will release the lid lock, allowing the lid to open and the rotor to come to a braked stop.
- **Gradually stop**  
Put the power switch in the “off” position, this will cut the power to the motor, and the rotor to come to a gradual stop.

Caution: Do not attempt to open the lid or remove samples until the unit has come to a complete stop. Once the rotor has come to a full stop, the lid can be manually lifted to the full open position and samples may be removed from the rotor.

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 tube or one strip tube in place.

## 6.0 Equipment Maintenance

The centrifuge should be cleaned periodically. Ensure that the unit is not plugged in. Use a damp cloth and a mild, noncorrosive detergent (pH<8). Do not immerse the centrifuge in liquid or pour liquids over it. Excessive amounts of liquid should be avoided. Liquid should not come into contact with the motor. After cleaning, ensure all parts are dried thoroughly before attempting to operate the unit.

Should a spill of infectious materials occur within the rotor or rotor chamber, the unit should be disinfected. This should be performed by qualified personnel with proper protective equipment.

## 7.0 Rotors

The centrifuge is supplied with two interchangeable quick release rotors. No tools are required to exchange the rotors or attach them to the motor shaft. The rotors can be easily exchanged with one hand by way of the quick release system. Removal of the rotors is done by placing your thumb on top of the motor shaft and lifting up with two fingers under the rotor. Place the other rotor into position on the motor shaft and snap in.



8 place tube rotor



4 place strip rotor

## 8.0 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.

## 9.0 Service

Should you have a question about the operation of the Mini Centrifuge or if service is required, contact Corning at: 800-492-1110. Do not send in a unit for service without first calling to obtain a repair authorization number. Should the unit require return to Corning for service, it should be properly packed to avoid damage. Any damage resulting from improper packaging shall be the responsibility of the user.


## 10.0 Appendix

### 10.1 Spare Parts

6770-RT	8 place tube rotor for Mini Centrifuge
6770-RTS	4 place PCR strip rotor for Mini Centrifuge
6770-RTA.5	Adapter, 0.5ml tubes
6770-RTA.20	Adapter, 0.2ml tubes
6770-RTA.25	Adapter, 0.25ml tubes
401025	Power Adapter, 24V for Mini Centrifuge

### 10.2 Symbols and Conventions

The following chart is an illustrated glossary of the symbols that may be used in this manual or on the product.

	<b>CAUTION</b> This symbol refers you to important operating and maintenance (servicing) instructions within the product Instruction Manual. Failure to heed this information may present a risk of damage or injury to persons or equipment
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### 10.3 Equipment Disposal - European Regulations



According to Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), Labnet C1601-B Mini centrifuge is marked with the crossed-out wheeled bin and must not be disposed of with domestic waste.

Consequently, the buyer shall follow the instructions for reuse and recycling of waste electronic and electrical equipment (WEEE) provided with the products and available at the following link: [www.corning.com/weee](http://www.corning.com/weee)

**10.4 Limited Warranty**

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. This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in the supplied instruction manual.

Should this product require service, contact Corning Customer Service department at 1.800.492.1110 or 978.492.1110 to receive 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, and padded to avoid damage. Corning will not be responsible for damage incurred by improper packaging,.Corning may elect for onsite service for larger equipment.

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.

ALL WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION OF 24 MONTHS FROM THE ORIGINAL DATE OF PURCHASE

CORNING'S SOLE OBLIGATION UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT CORNING'S DISCRETION, OF A DEFECTIVE PRODUCT.CORNING IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE, COMMERCIAL LOSS, OR ANY OTHER DAMAGES RESULTING FROM THE USE OF THIS PRODUCT.

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 model and serial number, date of purchase, and supplier here.

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

Date Purchased \_\_\_\_\_

Supplier \_\_\_\_\_

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