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
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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 Unit Input: AC 100 -- 240V, 50/60Hz, 0.35A
- 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 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

![Adapter body](image) ![American](image) ![Australian](image) ![European](image) ![British](image)

Push the plug into its position firmly!

**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.

8.0 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.2: 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.

CAUTION 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

10.3 Equipment Disposal - European Regulations


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
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 ______________________________________