

# Axygen® Axyspin Plate Centrifuge

**AxyGEN**

A Corning Brand

## Instruction Manual

Catalog Numbers:

PLATESPINNER

PLATESPINNER-AU

PLATESPINNER-UK

PLATESPINNER-EU

PLATESPINNER-JP



UK  
CA CE

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## 1.0 Introduction

The Axygen® Axyspin Plate Centrifuge is designed for quick spins of samples in PCR plates. Primarily designed for use with 96- or 384-well plates and small volumes, it will accommodate skirted, non-skirted and semi-skirted styles. With the use of the adapter you can spin a half plate, 8 or 12 x 0.2 µL strips, and individual PCR tubes.

No decontamination is required for the equipment.

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.

## 2.0 Symbols and Conventions



The electrical warning indicates the presence of a potential hazard which could result in electrical shock.



**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.

## 3.0 Safety Information

- ▶ Never use the centrifuge in any manner not specified in these instructions.
- ▶ Never put hands in the rotor area unless the rotor is completely stopped.
- ▶ Never move the centrifuge while the rotor is spinning.
- ▶ Never lean on or leave the centrifuge during operation.
- ▶ 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 centrifuge in a strong ultraviolet environment.
- ▶ Never continue to operate a centrifuge that is vibrating excessively.
- ▶ Always place the centrifuge on a level, sturdy surface.
- ▶ Always load the rotor symmetrically. Each plate should be counterbalanced by another plate of the same brand, style, and volume.
- ▶ Always use plates that have been sealed in some manner to avoid spillage.
- ▶ Always load plates so that the sealed side faces the center of the rotor and the bottom of the plate faces out.
- ▶ Always be sure the plates are pushed all the way to the bottom of the rotor slot before operating the centrifuge.
- ▶ Always locate the centrifuge within easy access to an electrical outlet.



**WARNING:** This unit is intended for short run usage only, requiring 15-20 seconds to spin down samples.

## 4.0 Specifications

Capacity	2 x 96- or 384-well PCR plates
Dimensions	7.5 x 8.6 x 7.3 in. (19 x 22 x 18.6 cm)
Weight	5.7 lbs. (2.6 kg)
Power supply	100 to 240V~, 50/60Hz
Maximum speed	2,500 rpm ±10%
Maximum RCF	500 x g
Temperature range	5°C to 40°C (up to 80% RH at 31°C, decreasing linearly to 50% RH at 40°C)
Electrical	100V, 50/60Hz, 0.6A 120V, 50/60Hz, 0.6A 230V, 50/60Hz, 0.3A
Protection class	IP21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The Axygen® Axyspin Plate Centrifuge is designed to be safe when operated under the following conditions:

- ▶ Indoor use
- ▶ Altitude up to 2,000 meters
- ▶ Pollution Degree 2

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user manual, may cause harmful interference to radio communications. Operation of equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference.



**CAUTION:** This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

**NOTE:** The equipment should be used in a basic electromagnetic environment only.

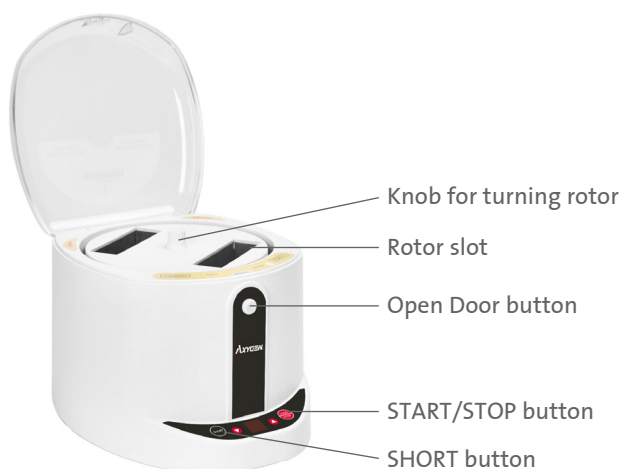
This ISM device complies with Canadian ICES-001.

*Cet appareil ISM est conforme à la norme NMB-001 du Canada.*

## 5.0 Installation

The Axygen Axyspin Plate Centrifuge should be placed on a clean, flat surface with sufficient space around it for ventilation. Plug the power cord into the back of the unit, and connect the other end to the power socket. To turn on the unit, set the power switch to the On (I) position.

## 6.0 Operation



**CAUTION:** To avoid spillage of samples, only plates that have been heat or tape sealed should be placed in the centrifuge. Plates are loaded into the rotor in a vertical position.

1. Lift the clear centrifuge lid to gain access to the rotor. (If the lid is locked, press the Open Door button to release the lid).
2. Carefully, slide the first plate into position so that the sealed side faces the center of the rotor and the bottom of the plate faces out. Be sure that the plate is pushed all the way down into the slot.
3. Load the second plate in the same manner as the first, making sure that it is all the way down in the rotor slot. If spinning only one plate, it is extremely important to load a dummy plate of the same brand, style, and sample volumes as a balance.
4. The time setting range is from 0 to 99 minutes. Press the time increase/decrease button to adjust the time parameter. Select 0 to cancel the timing function, and press the START/STOP button to save the data.
5. To begin a run, close the lid of the centrifuge. Press the START/STOP button to run. Allow the unit to run for 15-20 seconds. This is sufficient time to spin the samples down to the bottoms of the wells.
6. To stop, press the START/STOP button and the rotor will decelerate. Once the rotor has stopped, press the Open Door button to open the centrifuge lid and take out the sample plate(s).

**NOTES:**

- ▶ A slight vibration may be felt when the centrifuge reaches full speed. Excessive vibration indicates that the rotor is not balanced. Do not run the centrifuge unbalanced. Always use a balance plate of the same brand, style, and sample volumes.
- ▶ The SHORT button is the electric mode button. Holding down the SHORT button will run the unit at the highest speed. After it has reached maximum speed, the unit will start counting up in seconds. To stop operation, simply release the SHORT button.

## 7.0 Cleaning

Be sure to disconnect the power cord before cleaning. After the rotor is stopped, clean the surface of the instrument with a dry cloth and 75% alcohol. Make sure that all parts of the instrument are completely dry before operating. Do not immerse the unit in liquid.

## 8.0 Limited Warranty

Corning Incorporated (Corning) warrants that this product will be free from defects in material and workmanship for a period of one (1) year 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 consumables, wearing part (objective protective cover), 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 Customer Service at: USA/Canada 1.800.492.1110, outside the U.S. +1.978.442.2200, visit [www.corning.com/lifesciences](http://www.corning.com/lifesciences), or contact your local support office.

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

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

Model No. \_\_\_\_\_ Supplier \_\_\_\_\_

## 9.0 Equipment Disposal



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), this product 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 [www.corning.com/weee](http://www.corning.com/weee).

**Warranty/Disclaimer:** Unless otherwise specified, all products are for research use or general laboratory use only.\* Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. These products are not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications. \*For a listing of US medical devices, regulatory classifications or specific information on claims, visit [www.corning.com/resources](http://www.corning.com/resources).

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