

# Single and Dual Plate Rotators

## User's Manual



Dual Plate Rotator **74-2334**  
Single Plate Rotator **74-2302**



a brand of Harvard Bioscience, Inc.

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# Table of Contents

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SUBJECT	PAGE #
Warranty Information	2-3
Safety Information	4-5
Product Overview	6
Technical Specifications	7
Instructions for Use	8
Ordering Information	9

# Warranty Information

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## RESEARCH USE ONLY

### Harvard Apparatus

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Holliston, MA 01746, USA

Phone: 1-508-893-8999

Fax: 1-508-429-5732

Web: [www.harvardapparatus.com](http://www.harvardapparatus.com)

## Warranty

Harvard Apparatus warrants the QuikPrep Plate Rotators for a period of one year from the date of purchase. At its option, Harvard Apparatus will repair or replace the unit if it is found to be defective as to workmanship or materials. This warranty does not extend to any instrumentation which has been (a) subjected to misuse, neglect, accident or abuse, (b) repaired or altered by anyone other than Harvard Apparatus without Harvard Apparatus express and prior approval, (c) used in violation of instructions furnished by Harvard Apparatus. This warranty extends only to the original customer purchaser. **IN NO EVENT SHALL HARVARD APPARATUS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Some states do not allow exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. **THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR USE, OR OF ANY OTHER NATURE.** Some states do not allow this limitation on an implied warranty, so the above limitation may not apply to you. Without limiting the generality of the foregoing, Harvard Apparatus shall not be liable for any claims of any kind whatsoever, as to the equipment delivered or for non-delivery of equipment, and whether or not based on negligence. Warranty is void if the instrument is changed in any way from its original factory design or if repairs are attempted without written authorization by Harvard Apparatus. Use of parts or connections from manufacturers other than Harvard Apparatus will void warranty on QuikPrep Plate Rotators. If a defect arises within the warranty period, promptly contact Harvard Apparatus, 84 October Hill Road, Holliston, Massachusetts, USA 01746-1388 using our toll free number 1-800-272-2775 (US Only) or 508-893-8999. (E-mail: [support@hbiosci.com](mailto:support@hbiosci.com)). Goods will not be accepted for return unless an RMA (Returned Materials Authorization) number has been issued by our customer service department. The customer is responsible for shipping charges. Please allow a reasonable period of time for completion of repairs, replacement and return. If the unit is replaced, the replacement unit is covered only for the remainder of the original warranty period dating from the purchase of the original device. This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

# Warranty Information

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## Out of Warranty Service

Proceed exactly as for Warranty Service above. If our service department can assist you by phone or other correspondence, we will be glad to help at no charge.

Repair service will be billed on the basis of labor and materials. A complete statement of time spent and materials used will be supplied. Shipment to Harvard Apparatus should be prepaid. Your bill will include return shipment freight charges.

Disassembly by the user is prohibited. Service should only be carried out by experienced Harvard Apparatus technicians.

## Repair Facilities and Parts

Harvard Apparatus stocks replacement and repair parts. When ordering, please describe parts as completely as possible, preferably using our part numbers. If practical, enclose a sample photo or drawing.

# Safety Information

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Please read the following safety precautions to ensure proper use of your generator. If the equipment is used in a manner not specified, the protection provided by the equipment may be impaired.

## To Prevent Hazard or Injury

Add power supply and input/output details

### Use Proper Line Cord

Use only a line cord that is certified for country of use. The Operating voltage range is 100 – 240 VAC, 50/60 Hz.

### Ground the Product

This product is grounded through the grounding conductor of the power cord. To avoid electric shock, the grounding conductor must be connected to earth ground. Before making any connections to the input or output terminals of the product, ensure that the product is properly grounded.

### Make Proper Connections

Make sure all connections are made properly and securely. Any signal wire connections to the unit must be no longer than three meters.

### Observe All Terminal Ratings

Review the operating manual to learn the ratings on all connections.

### Avoid Exposed Circuitry

Do not touch any electronic circuitry inside of the product.

### Do Not Operate with Suspected Failures

If damage is suspected on or to the product do not operate the product. Contact qualified service personnel to perform inspection.

### Orient the Equipment Properly

Do not orient the equipment so that is difficult to operate the disconnection device.

### Place Product in Proper Environment

Review the operating manual for guidelines for proper operating environments.

### Observe all Warning Labels on Product

Read all labels on product to ensure proper usage.

# Safety Information

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## Caution Notice

The QuikPrep Plate Rotators are intended for laboratory use only and can be used in research and development applications. These systems have been designed to meet the standards for electromagnetic compatibility (EMC) intended for laboratory equipment applications as well as the applicable safety requirements for electrical equipment for measurement, control, and laboratory use. The unit itself does not generate waste, but may be used to treat samples that are hazardous. Please use appropriate PPE and ensure disposal in accordance with local regulations and practices.



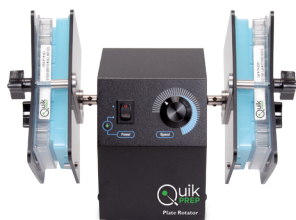
**This product should not be used in the presence of a flammable atmosphere such as an anesthetic mixture with air, oxygen, or nitrous oxide.**

**CAUTION**

## Product Overview

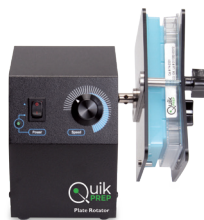
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The QuikPrep Single and Dual Plate Rotators with variable rotation rates are intended for use with the QuikPrep 96-well Equilibrium Dialyzer. The rotator speeds up the equilibrium dialysis process by keeping the sample in constant motion thereby ensuring higher reproducibility of results.



*Dual Plate Rotator with Dialyzer plates secured in clamp fixture*

**74-2334**



*Single Plate Rotator with Dialyzer plates secured in clamp fixture*

**74-2302**



*96-Well Equilibrium Dialyzer*

**74-2331**



*8-Plate Rotator/Incubator with carousel for 96-well Equilibrium Dialyzer plates*

**74-2302**

# Technical Specifications

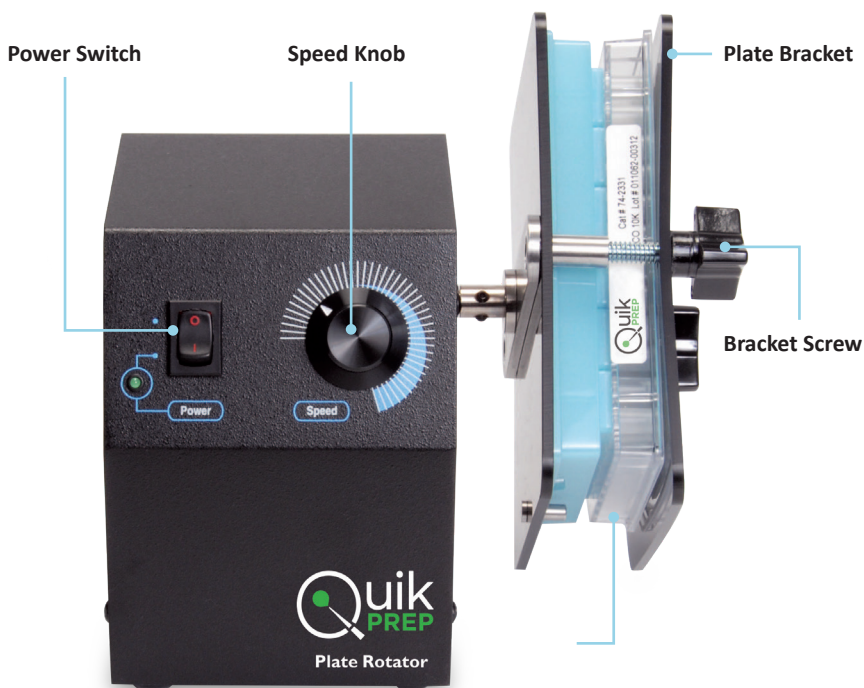
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<b>Power Supply</b>	GT-41062-1812-T3
<b>Input Power</b>	100-240 VAC, 0.6A, 50/60 Hz
<b>Output Power</b>	12V DC 1.5A
<b>Dimensions, H x W x D</b>	Single: 7.25 x 7.0 x 5.5 inches (18.4 x 17.8 x 14.0 cm)
	Dual: 7.25 x 10.0 x 5.5 inches (18.4 x 25.4 x 14.0 cm)
<b>Weight</b>	Single: 3 lb
	Dual: 3 lb
<b>Speed</b>	30 RPM Max
<b>Atmospheric Specifications:</b>	
<b>Operating Temperature</b>	4°C to 40°C (40°F to 104°F)
<b>Storage Temperature</b>	-10°C to 70°C (14°F to 158°F)
<b>Storage Humidity</b>	20% to 80% RH, non condensing
<b>Method of Operation</b>	Continuous
<b>Classification</b>	Class I
<b>Pollution Degree</b>	1
<b>Installation Category</b>	II
<b>Supplier Name</b>	Harvard Apparatus
<b>Supplier Address</b>	84 October Hill Rd., Holliston, MA 01746
<b>Supplier Phone Number</b>	508.893.8999
<b>Regulatory Certifications</b>	CE, WEEE, EU RoHS, FCC

# Instructions for Use

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1. Attach the unit to an electrical outlet within the specified voltage range with proper grounding using the supplied power supply.
2. Loosen the plate holder bracket screws.
3. Inserts plate(s)
4. Hand tighten the plate holder bracket screws with plate(s) inside to secure.
5. Flip the power switch to turn the unit on.
6. Adjust the speed up or down by turning the speed adjustment knob.
7. When done rotating, flip the power switch to turn the unit off.
8. Loosen the plate holder bracket screws, and remove the plate(s).





# Ordering Information

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Product Number	Product
74-2302	Single Plate Rotator, qty. of 1
74-2334	Dual Plate Rotator, qty. of 2
74-2335	8-Plate Rotator Incubator, 110 V with Carousel
74-2336	8-Plate Rotator Incubator, 220 V with Carousel
74-2337	8-Plate Carousel Only
74-2331	96-Well DispoEquilibrium Dialyzer, 10 kDa MWCO Membrane, pkg. of 1
74-2323	Strip (8-Cap), pkg. of 1
74-2322	Plate Seal Mat, Pierceable, Self-Sealable, pkg. of 2



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## U.S.A.

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## Canada

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## Germany

### **Hugo Sachs Elektronik**

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## Sweden

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