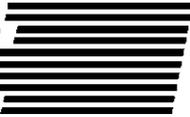


Operating Instructions

Labnet Benchtop Rocker Model 35/35D

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Introduction

The Model 35/35D Benchtop Rocker is intended for general purpose applications requiring constant rocking. The rocker can be used in environments from 4^o to 65^oC. This allows for cold room use as well as incubated applications.

The rocking platform is covered with a nonslip rubber mat to provide stability. Plates, dishes and other sample containers may be placed on its surface. The degree of tilt the platform achieves while rocking can be adjusted to $\pm 20^{\circ}$. The number of tilts per minute can be varied from 4 to 160 as required to suit particular applications. A two hour timer with hold position controls operation.

The Model 35/35D Benchtop Rocker is constructed of heavy gauge steel. This provides the rocker with a stable base for vibration free operation. The maximum load the rocking platform can carry is 4.6kg.

The Model 35/35D Benchtop Rocker is available with either a single or double platform. In the double platform version, the second platform attaches to the first platform by means of metal rods. The clearance between the two platforms is 82mm.

Read this instruction manual thoroughly before attempting to operate the Model 35/35D Benchtop Rocker. All persons operating this piece of equipment should review the Safety Precautions section of this manual.

Warranty

Labnet International guarantees that the Model 35/35D Benchtop Rocker you have received meets its published specification. The Model 35/35D Benchtop Rocker is guaranteed to be free of defects in materials and workmanship for a period of one year from the date of purchase. This guarantee is valid only if the unit has been used in accordance with the instructions in this manual and for its intended purpose. Labnet International shall not be responsible for consequential damages or damages resulting from the abuse or misuse of this equipment. Labnet International's liability shall be limited to the repair or replacement of the unit or refund of the purchase price, at Labnet International's discretion.

In the event that service is required, Labnet International's Service Department must first be contacted to receive a return authorization number.

Labnet International reserves the right to alter the specification of the Model 35/35D Benchtop Rocker without notice. This allows the incorporation of improvements as they are developed.

Please fill in the following information. This information will be required in the event that service becomes necessary.

Serial Number _____

Date of Purchase _____

Specifications

Shaking speed	4 to 160 tilts per minute
Timer	1 minute to 2 hours or "hold"
Operating Environment	4° to 65°C
Platform Dimensions	360 x 280mm
Rocking Motion	Adjustable, $\pm 20^\circ$ tilt
Maximum Load	4.6kg
Clearance between platforms (Double platform unit only)	82mm
Voltage Requirements	120V/60Hz
Power/Current	60W/0.5amps

Unpacking and Installation

Upon receipt of the Model 35/35D Benchtop Rocker, examine the exterior carton for damages. In the event of shipping damage, a claim must be filed with the transportation carrier within 10 days.

Carefully unpack the unit and check for completeness. Included in the carton should be the following:

- Rocker with platform(s)
- Securing hardware for second platform (35D only)
- Instruction Manual
- Warranty Card

If any of these items are missing, contact Labnet International's Customer Service Department immediately.

Save the original packaging until the unit has been shown to be operating properly.

Verify that the unit is rated for the proper voltage by checking the panel on the back. Check that the proper power cord has been received. The serial number is also found on the back panel. Make note of the serial number in the space provided in the Warranty section of this manual.

The Model 35/35D Benchtop Rocker should be located on a level, stable surface near a grounded electrical outlet. Allow sufficient clearance on all sides of the unit, at least 3 inches, for proper ventilation. Ensure that the platform will not touch other objects while in operation.

If the unit is supplied with an optional upper platform, it should be

installed at this time. Remove the hardware from the bottom threads of the platform standoffs. Note the order of the hardware on the threads. Place one large flat washer over each of the four holes on the bottom platform. Insert the threads of each of the four standoffs through the holes in the platform and the washers. Replace all hardware in the order in which it was removed. Do not overtighten the wingnuts.

Plug the power cord into a grounded wall socket. The Model 35/35D Benchtop Rocker is now ready for use.

Operating the Model 35/35D Benchtop Rocker

The Model 35/35D Rocker may be operated in either timed or continuous mode.

To operate in timed mode, turn the speed dial to the desired setting. Turn the timer knob clockwise to the desired time. Time can be set in 1 minute increments between 1 and 120 minutes. Turning the timer activates operation of the rocker. Operation will continue until time has expired or the timer is turned back (counterclockwise) to the zero position.

To operate in continuous mode, turn speed dial to the desired setting. Turn the timer knob left (counterclockwise) to the hold position. This will begin operation of the rocker. Operation will continue until the timer knob is turned back (clockwise) to the zero position.

Note: The timer may be stiff and offer some resistance when turned. This is normal.

Operation of the rocker may also be stopped at any time by turning the speed dial to the zero position. When the speed dial is turned to the zero position, the timer will continue to count down.

Note: To avoid splashing of samples, the rocker should be started with the speed dial at the lowest position and gradually turned up to the desired speed.

Adjusting Platform Tilt

The tilt of the platform can be adjusted to $\pm 20^\circ$. The tilt is factory preset at $\pm 10^\circ$. Instructions for adjusting the tilt are as follows.

1. Unplug the unit from the wall outlet.

2. Locate the access panel on the back of the unit and remove the 2 screws holding the panel in place.
3. Position a 7/16 inch wrench or adjustable wrench on the nut holding the bottom connecting rod to the disk. Use the wrench to turn the disk until the locking hole in the motor shaft collar is aligned with the access hole on the rear panel. The locking hole is located 180° from the collar's set screw.
4. Insert the locking rod through the access hole and into the locking hole of the motor shaft collar. This will prevent the disk from turning while loosening or tightening the nut holding the bottom connecting rod in place.
5. Loosen the 7/16 inch nut just enough to allow movement of the nut and connecting rod in the slot. Move the nut outward from the center of the disk to increase tilt action. Move the nut inward toward the center of the disk to decrease tilt action.
6. When correct action is obtained, retighten the nut.
7. Remove the locking rod.
8. Replace access cover

Safety Precautions

The following precautions should be taken when operating or working near the Model 35/35D Benchtop Rocker:

Never operate the rocker without a platform securely attached.

Always wear shatterproof eye protection.

Always make certain that the platform and any hardware are secure before operating the shaker.

Load the rocker symmetrically. Unbalanced loads should be avoided.

Solvents and flammables should not be used on or near the shaker.

Service and repair must only be performed by qualified professionals.

Hazardous samples should be shaken only in appropriate containment vessels.

Care and Maintenance

After each use, the Model 35/35D Benchtop Rocker should be wiped down with a soft, damp cloth. Do not immerse the rocker in water or pour liquids over the unit as electrical shock may occur.

The rod bearing should be lubricated every 3 to 6 months with a few drops of oil (Three-in-One, Handy Oil or similar). The motor and platform bearings are permanently lubricated and need no maintenance. If the rocker is used at temperatures above 37°C, the rod ends must be oiled every month to maintain proper operating condition. Never use the Model 35/35D Benchtop Rocker in environments above 65°C.

Where to Call

If you have a question about the Model 35/35D Benchtop Rocker, contact Labnet International's Customer Service Department at 732 417-0700, Monday through Friday, 8:30am to 5:30pm, EST.

For service inquiries, contact Labnet International's Service Department at 732 417-0700, Monday through Friday, 9:00am to 5:00pm, EST. Before returning a unit for service, a Return Authorization (RA) number must first be obtained from the service department. Equipment sent in without prior authorization will be returned at the customer's expense.

If the unit must be returned to Labnet International for servicing, 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 return authorization number.

Notes

