

# Operating Instructions For Denville 3-D Mini Rocker

## Overview

The 3-D Mini Rocker is a three dimensional shaker typically used for maintaining the uniform suspension of blood components in blood collection tubes without foaming. The 3-D Mini Rocker is also ideal for mixing large strands of DNA into solution in micro tubes or mixing blood into a buffer in large centrifuge tubes. The 3-D Mini Rocker achieves it's three dimensional mixing by combining the rotating motion of an orbital shaker with the rocking motion of a platform rocker.

The modern styling of the Denville 3-D Mini Rocker housing is achieved through the use of injection molded FR-ABS plastic. The large platform is constructed of powder coated aluminum topped with a rubber TPE mat.

## Installation

The Denville 3-D Mini Rocker can be used on a bench, in a cold room or in an incubator up to 40C. Place the unit on a flat stable surface and be sure to leave sufficient room around the unit to allow both the platform and load to move freely. A minimum of four inches (10cm) clearance on all sides of the rocker is advised.

## Operation

Tubes may be placed directly on the dimpled mat. The dimple pattern is configured to allow blood tubes and centrifuge tubes to be securely placed on the mat without additional strapping in most cases. If tubes are to be stacked, they should be secured with rubber bands or bungee cords. Holes in the corners of the platform are provided for this purpose.



Always load the platform in uniform and balanced fashion.

Use the On/Off switch to turn the unit on. The direction of rotation in which the unit starts is random and does not affect mixing. If desired, the directional rotation can be reversed by holding the unit's base and very briefly touching the rotating platform on the bottom at one corner. This technique can also be used to select the quietest direction of rotation.

## Maintenance



Always disconnect cord from power source before maintaining or servicing.

The Denville 3-D Mini Rocker requires no maintenance other than the occasional cleaning with a damp cloth with mild detergent. The rubber dimpled mat may be washed in soap and water. **Do not immerse the unit in water or spill liquids over the unit.** Be sure the unit is dry before reconnecting to power.

## Service & Repair

The Denville 3-D Mini Rocker is a well built unit that should provide years of trouble free service. Should service be needed, contact Denville Scientific at 908-757-7577. Service should only be performed by a qualified service technician.

## Specifications

Mixing action: 3 dimensional rocking rotating

Mixing speed: 24 rpm fixed (120V model) 20 rpm fixed (230V model)

Platform tilt angle: 20 degrees fixed

Platform dimensions: 9.5 in x 6.75 in (24cm x 17cm)

Mixer dimensions W x H x D: (9.5in x 5.75in x 6.75in) (24cm x 14.6cm x 17cm)

Mixer weight: 1.88lbs (0.85kg)

Platform load capacity: 1.75lbs balanced (0.8kg)

Platform capacity without stacking: 60 x 1.5ml micro centrifuge tubes; 30 x pediatric blood tubes (3ml); 17 x 15ml centrifuge tubes; 21 x standard blood tubes (7ml); 7 x 50ml centrifuge tubes

Ambient operating range: 4C to 40C

Electrical: 120V, 50/60Hz, 0.03 amps or 230V 50/60Hz, 0.015 amps

***DENVILLE***  
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