

MiniStar Centrifuge

Operational Manual

Madell Technology Corp.

<http://www.madelltech.com>



The MiniStar centrifuge is the perfect answer for quick spin-downs of tube walls and caps, HPLC preparations, micro-filtration, PCR strip, and short-term cold room uses.

The small footprint and quiet operation makes it perfect for desktop use or easy transport between countertops.

Features:

- Ideal for quick spin-downs and micro filtration.
- Clear cover allows the operator to view the status of rotors.
- Starts and stops in seconds.
- Extremely quiet operation.

Five S's

■ SAFE

The centrifuge motor is inoperable if the cover is not closed completely.

■ SIMPLE

Close the lid to begin operation. Rotor stops when the lid is lifted.

■ SHAFTABLE

Two interchangeable rotors and adapters require no locking, no releasing- just pop the tubes in and out.

■ SMALL

The small footprint makes it easy to squeeze into a crowded countertop.

■ SOUNDLESS

The excellent motor and rubber foot grip assure noise-free and stable operation.

Specifications:

Max Speed..... 6400rpm

Max RCF..... 2046 g

Power 110V, 50/60Hz, 130mA or 220V, 50/60Hz, 65mA

Rotors..... 6x1.5/2.0ml angle rotor

2x8well0.2ml strip rotor

Six adapters fit 0.5 ml tubes

Six adapters fit 0.2 ml tubes

Dimensions..... (W)9.8×(D)7×(H)5.9in
Weight..... 650 g
Color..... light gray

General Information:

MiniStar is supplied with two rotors, one for micro tubes and one for 0.2ml PCR strip tubes. Both rotors are designed for applications requiring relatively low g-forces, such as micro-filtration, cell separation and quick spin downs from the walls of tubes.

The 6x1.5/2.0 ml rotor is designed to centrifuge up to six individual 1.5/2.0ml plastic micro centrifuge tubes. It will also accept 0.5 and 0.2ml tubes with the adapters supplied with the unit.

The strip tube rotor is designed to centrifuge 2x8 well 0.2ml strip tubes. It will also accept upto16 individual 0.2ml tubes.

Adapter fits 0.2ml tube



Adapter fits 0.5ml tube



Warranty:

MiniStar is covered by a one year warranty. This warranty covers the centrifuge and rotor. This warranty is void in the event of incorrect operation, use of nonstandard spare parts or accessories and unauthorized modification of the rotor or centrifuge. The rotor warranty does not cover normal wear and tear or damage and/or weakening caused by radioactive contamination, cleaning agents, or over tightening of the screws. Fuses are not covered by the warranty.

Exchanging Rotors:

MiniStar is supplied with two interchangeable rotors. The rotors can be easily exchanged by hand.

- 1). Pull up and take out the original rotor
- 2). Place the other rotor into position on the motor shaft. Take care not to press the rotor down so far as to compress the rubber collar at the base of the shaft.

Do not over tighten as this will cause damage to the rotor and the motor shaft.



Operation:

Before operating the MiniStar, be sure that the power switch is in the ON position.

Close the lid of the centrifuge to start the operation. No other procedures are required.

To stop the rotation, press down on the lid release tab on the front of the unit. This will release the lid lock and the rotor will slow down to a complete stop.

Do not attempt to open the lid or remove samples until the unit has come to a complete stop.

Safe operation of the MiniStar requires that the rotors to be balanced . Failure to load the rotor properly presents a hazardous condition and may damage the centrifuge. Individual tubes, strip tubes and adapters must always be loaded symmetrically to ensure proper balance.

Cleaning:

To clean the MiniStar, use a damp cloth and a mild, no corrosive detergent. After cleaning, ensure all parts are dried thoroughly before attempting to operate

the unit. Do not immerse the MiniStar in liquid or pour liquid over it.

Safety Precautions:

- ALWAYS load the rotor symmetrically. Each tube should be counter balanced by another tube.
- ALWAYS use only tubes made from plastic and designed to withstand centrifugal forces of at least 2,000g.
- NEVER run the centrifuge with only one strip tube in place.
- NEVER operate the centrifuge without a rotor properly attached to the shaft.
- NEVER put hands in the rotor area unless the rotor is completely stopped.
- NEVER move the centrifuge while the rotor is spinning.
- NEVER centrifuge flammable, explosive or corrosive materials

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