



Operations Manual Item: R5010 (-E) V1.0

Benchmark Rotator Rotating Mixer



Introduction:

Benchmark's Rotator is a quiet, medium capacity, rotator that includes rotisserie tube holders for most common laboratory test tubes. With adjustable speed and direction, this instrument is useful for a variety of laboratory applications.

I. Specifications:

Speed: 1rpm to 40rpm

Timer: 1 sec. to 9 hours or Continuous

Capacity: Up to 12 x 50ml

Dimensions: (wxdxh) 21x 27 x 32 cm (8.25x10.5x12.5 in.)

Tilt Angle: Adjustable from 0 to 90°

Weight: 3.2kg (7lbs)

Electrical: 100 to 240VAC, 50-60Hz

Operating environment: 4°C (cold room) to 60°C

Warranty: 2 years

II. Product Set-Up:

Place the rotator on a clean and stable surface. Install the desired rotisserie tube holder and set the desired tilt angle (adjusting the black box behind the tube holder up and down by hand). Plug the rocker into a properly grounded outlet. Check that nothing blocks the rotating motion of the tube holder.

Press the test-tubes firmly into the arms of the tube holder rotisserie.

NOTE: Three rotisserie tube holders are included:

48 Position: For tube diameters of 10-14mm (1.5/2.0ml)

20 Position: For tube diameters of 15-20mm (15ml)

12 Position: For tube diameters of 25-35mm (50ml)

III. Product Operation:

Set the Speed : Press the "Mode" key until the small red LED under "RPM Mode" is illuminated. Then adjust the speed from 1 to 40rpm with the control knob.

Set the Time : Press the "Mode" key until the small red LED under "Time Mode" is illuminated. Then adjust the time from 1 second up to 9 hours. NOTE: The time can also be set to run continuously by setting the time to "-- --".

Set the Rotating Direction : Press the "Mode" key until the small red LED under "RPM Mode" and "Time Mode" are both not illuminated. Then adjust the direction to "C" for Clockwise or "A" for Anti-Clockwise. For Alternate Direction Mode (designed for more intense mixing) set the direction to a numeric value of 120°, 180°, 240°, 300° or 360° (for one full rotation). The rotator will then rotate the desired setting. stop (with some mild agitation) and rotate in the reverse direction, then repeat.

Press the "Start/Stop" knob to begin the rotation. At the end of the desired time, the rotator will stop automatically and an end of cycle alarm will beep. NOTE: A cycle can be stopped at any time by pressing the "Star/Stop" knob while rotating.

IV. Care and Maintenance:

No routine maintenance is required other than to keep the unit clean. Cleaning can be done with a damp cloth. Avoid the use of solvents as they may damage the product housing.

Service and Contact:

In the event that service or technical support is required, please contact **Benchmark** by phone at 1-908-769-5555 or by email at info@benchmarkscientific.com.

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