

Benchmark 

# ROTO-THERM™

TUBE ROTATORS AND INCUBATED TUBE ROTATORS

- ✦ **Rotated mixing with temperature control**
- ✦ **Includes tube holders for common tube sizes**
- ✦ **Available with variable speed control and advanced shaking/mixing modes:**

- **Mix (Oscillating)**
- **Pause**
- **Rock**







**Roto-Mini™**  
Rotator Series



**Roto-THERM™**  
Incubated Rotator Series



|              | Roto-Mini   | Roto-Mini PLUS  | Roto-THERM   | Roto-THERM PLUS   |
|--------------|---|---|--|---|
|              |  |  |  |  |
| Item No.     | R2020   | R2024   | H2020  | H2024   |
| Temperature  | N/A   | N/A   | Ambient +5° to 60°C  | Ambient +5° to 60°C   |
| Speed        | 24rpm   | 5 to 70rpm  | 24rpm  | 5 to 70rpm  |
| Mixing Modes | N/A   | Mix, Pause and Rock   | N/A  | Mix, Pause and Rock   |
| Dimensions   | 10.8 x 6 x 6.5 in<br>27.5 x 15.2 x 16.5 cm  | 10.8 x 6 x 6.5 in<br>27.5 x 15.2 x 16.5 cm  | 11.6 x 8.5 x 9 in<br>29.5 x 21.6 x 22.9 cm   | 11.6 x 8.5 x 9 in<br>29.5 x 21.6 x 22.9 cm  |
| Weight       | 3 lbs (1.4 kg)  | 3 lbs (1.4 kg)  | 9 lbs (4 kg)   | 10 lbs (4.5 kg)   |

Benchmark's new **Roto-Mini** and **Roto-Therm** series of rotating mixers provide a wide range of mixing capabilities. Suitable for an array of laboratory applications including resuspension, protein binding, nucleic acid purification, histochemistry, hybridization etc, the mixers include interchangeable tube holders for accomodating all common tube sizes from 0.5ml to 50ml. The motion can be adjusted from vertical (end over end) mixing, to horizontal (rolling or hybridization style) mixing.

For applications requiring temperature control, the Roto-Therm series can be digitally programmed to maintain chamber temperatures of ambient +5°C to 60°C and include an "in-lab" calibration function for ensuring accurate temperature control. For applications where temperature control is not required, the economical Roto-Mini models are available.


Both the Roto-Therm and Roto-Mini rotators are available in the "Plus" configuration. The **Plus** models provide the following additional features:

- Variable speed: 5 to 70rpm
- "Mix" function: Rotating in combination w/ oscillations (increased mixing)
- "Pause" function: Rotating with intermittent "stops" during rotation
- "Rock" function: Back and forth, gentle rocking motion (see-saw)



The **Plus** models also offer an additional rocking platform (4.5 x 3 in.), as well as a 96 x 0.2ml tube/strip/plate holder for mixing PCR vessels in the "Mix" (oscillating) mode.



**Included Tube Holders:**

|   |  |
|---|--|
|  <p>R2020-1520<br/>11 x 1.5/2.0ml</p>  |  <p>R2020-0507<br/>5 x 5-7ml (12-13mm)</p>        |
|  <p>R2020-150<br/>5 x 10/15ml (16-17mm)*<br/><small>*4x15ml capacity in RotoTherm models</small></p> |  <p>R2020-500<br/>6 x 50ml &amp; 24 x 0.5ml</p> |

**Optional Tube Holders:**

|   |   |
|---|---|
|  <p>R2020-PCR<br/>96 x 0.2ml</p> |  <p>R2020-RP<br/>Mini Rocking Platform</p> |
|---|---|

**Ordering Information**

- R2020\* Roto-Mini Rotator with tube holders
- R2024\* Roto-Mini Plus, Variable Speed Rotator with tube holders
- H2020\* Roto-Therm Incubated Rotator with tube holders
- H2024\* Roto-Therm Plus Incubated Rotator (variable speed) with tube holders

- R2020-1520 Tube holder, 11 x 1.5/2.0ml, 2/pk (1 pack included)
- R2020-0507 Tube holder, 5 x 5-7ml, 2/pk (1 pack included)
- R2020-150 Tube holder, 4 x 10-15ml, 2/pk (1 pack included)
- R2020-500 Tube holder, 6 x 50ml, 1 each (included)
- R2020-PCR Tube holder, 96 x 0.2ml, 12 x PCR strips or one PCR plate\*\*
- R2020-RP Mini rocking platform with rubber mat, 4.5 x 3 in.\*\*

\* 115V with US Plug, for 230V, please add-E  
\*\* Accessories are recommended for "Plus" models (R2024 and H2024) only

**Included Tube Holders**

- 11 x 1.5/0.2ml (pack of 2)
  - 5 x 5-7ml (pack of 2)
  - 4 x 10-15ml (pack of 2)
  - 6 x 50ml\* (pack of 1)
- \*Also accepts 24 x 0.5ml

**Maximum Tube Capacity:**

|           |    |         |    |
|-----------|----|---------|----|
| 0.2ml     | 96 | 5-7ml   | 20 |
| 0.5ml     | 24 | 10-15ml | 16 |
| 1.5/0.2ml | 44 | 50ml    | 6  |