Incu-Shaker[™] Mini CO2 Shaking Incubator



- Integral orbital shaker, ideal for

→ Six side direct heating, provides

→ Stainless steel chamber (SS316),

Dual beam IR sensor, fast response

with round corners for easy cleaning

time for precise control over CO₂%

Temperature Stability (37.0°C)

Temperature Stability Chart: Chamber temperature for

a 2 hour duration following stabilization (within 0.1°C) at 37.0°C.

suspension cell culture

uniform temperature



Roto-Therm



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Benchmark's new 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 accomomodating 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 temperaure control is not required, the economical Roto-Mini models are available (pg. 30).

Roto-Therm 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/ oscillation
"Pause" function:	Rotating with intermittent "stops" du
"Rock" function:	Back and forth, gentle rocking motic

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

Technical Data:

Speed Range: H2020:	24rpm				
H2024:	5 to 70rpm	Item No.	Description:		
H2024:	5 to 701pm	H2020*	Roto-Therm Incubated Rotator with tube holders		
Mixing Modes: H2020:	N/A	H2024*	Roto-Therm Plus Incubated Rotator (variable speed)		
H2024:	Mix, Pause & Rock		with tube holders		
H2024:	Mix, Pause & NOCK				
Temperature:	Ambient +5° to 60°C				
Mary Care aite a	1.5ml/2.0ml: 44 15ml:16 50ml: 6	Tube Holder Accessories			
Max Capacity:	1.5111/2.0111:44 15111:10 50111:0	R2020-1520	Tube holder, 11 x 1.5/2.0ml, 2/pk (1 pack included)		
Dimensions:	11.6 x 8.5 x 9 in / 29.5 x 21.6 x 22.9 cm	R2020-0507	Tube holder, 5 x 5-7ml, 2/pk (1 pack included)		
Weight:	9 lbs / 4kg (H2020) / 10 lbs / 4.5kg (H2024)	R2020-150	Tube holder, 4 x 10-15ml, 2/pk (1 pack included)		
Electrical:	al: 115 or 230V, 50-60Hz, 0.5A		Tube holder, 6 x 50ml, 1 each (included)		
		R2020-PCR	Tube holder, 96 x 0.2ml, 12 x PCR strips or one PCR plate**		
Warranty:	2 Years	R2020-RP	Mini rocking platform with rubber mat, 4.5 x 3 in. **		
		×115)/ 11	US alway For 2201/ (EU alway) alases add (E)		





/IAGic Clamp[™] Platform m. This patented design allows for instant, tic attachment of clamps without the use of crews and other <u>hardware</u>.

Heated Door



The six sided, direct heating design provides the highest level of temperaure uniformity (±0.5). In addition, the heated door prevents the door, for improved sample visualization

Technical Data:

Temperature Range:	Ambient +5° to 60°C (Increments: 0.1°C)
Temperature Accuracy / Uniformity / Stabiilty	±0.5°C / ±0.5°C / 0.1°C (at 37°C)
Speed Range:	30 to 300 rpm (Increments: 1rpm)
Mixing Orbit:	19mm (3/4 in.)
CO2 Range:	0 to 20% (Increment: 0.1%)
CO2 Accuracy:	±0.1%
Time Range:	1 min. to 48 hours (or continuous)
Platform Dimensions:	9.5 x 11.5 in. (23.5 x 29 cm)
Chamber Dimensions:	13.2 x 10.25 x 15.4 in. / 33.5 x 26 x 39.2 cm (46L)
Exterior Dimensions:	16.5 x 18.3 x 21.8 in. / 42 x 46.5 x 55.3 cm
Weight:	90 lbs (40.kg)
Electrical:	120V or 230V, 50-60Hz, 350W
Warranty:	2 Years

Maximum Capacity:

50ml		250ml	500ml	1000ml	Micro-	15ml	50ml
Flasks		Flasks	Flasks	Flasks	plates	Tubes	Tubes
20	12	8	5	4	4	64	30

Ordering Information:

Sealed Inner Glass Door

The inner glass door is transparent, allowing visualization of samples without fully exposing

Adjustable, pull out shelf

An included stainless steel shelf allows shaking of suspended cells while simultaneously incubating adherent cells. This static shelf can be pulled outward for easy loading/unloading and can be adjusted (or removed) for shaking taller vessels.

the chamber to the ambient environment, improving performance and reducing energy was

Item No.	Description:
H3501*	Incu-Shaker CO 2 Mini, with non-slip rubber mat platform
H2300-REG	Optional CO₂ Gas Regulator
	MAGic Clamp Accessories
H1000-MR	MAGic Clamp Universal Platform, 9.5 x 11.5 inch
H1000-MR-CMB	MAGic Clamp Adjustable Flask Clamp, for 125, 250 & 500ml Erlenmeyer flasks (max. 12 x 125ml, 8 x 250ml or 5 x 500ml)
H1000-MR-50	MAGic Clamp Flask Clamp, for 50ml Erlenmeyer flask (max. 20)
H1000-MR-125	MAGic Clamp Flask Clamp, for 125ml Erlenmeyer flask (max. 12)
H1000-MR-250	MAGic Clamp Flask Clamp, for 250ml Erlenmeyer flask (max. 8)
H1000-MR-500	MAGic Clamp Flask Clamp, for 500ml Erlenmeyer flask (max. 5)
H1000-MR-1000	MAGic Clamp Flask Clamp, for 1L Erlenmeyer flask (max. 4)
H1000-MR-MP	MAGic Clamp Flask Clamp, for microplates (max. 4)
H1000-MR-T15	MAGic Clamp Tube Rack, 32 x 15ml (max. 2)
H1000-MR-T50	MAGic Clamp Tube Rack, 15 x 50ml (max. 2)
H1000-MR-1550	MAGic Clamp Tube Rack, 32 x 15ml (max. 1)
H1000-MR-T600	MAGic Clamp Tube Rack, 4 x 500/600ml bottles
H1000-MR-TSR	Slanted Rack Holder, holds tube racks at an adjustable angle
	*115V with US plug. For 230V (EU plug), please add (-E).

Roto-Therm[™] Incubated Rotator



- + Rotated mixing with temperature control
- Available with variable speed control and advanced shaking/mixing modes:
 - + Mix (oscillating)
 - + Pause

Included Tube Holders: R2020-1520

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11 x 1.5/2.0ml

R2020-150

ions (increased mixing) uring rotation on (see-saw)

	5 x 10-15ml (16-17mm)	
Op	otional Tube Holde	ers:
	R2020-PCR	

96 x 0.2ml



R2020-0507

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5 x 5-7ml (12-13mm

R2020-500

0.0.0

6 x 50ml & 24 x 0.5ml

Mini Rocking Platfo

Ordering	Information.

*115V with US plug. For 230V (EU plug), please add (-E). **Accessories are recommended for "Plus" modesl (H2024) only