

INCU-SHAKER™ 20L/LR **STACKABLE SHAKING INCUBATOR**



Stainless steel chamber delivers precise temperature uniformity



High capacity, high throughput, space efficient culturing



Proven, reliable design ensures years of maintenance-free use



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Convenient stacking

The included stainless stacking brackets provide secure and easy mounting for stacking the Incu-Shaker 20L or 20LR, up to two units high. When stacked, the Incu-Shaker 20L and 20LR are still rated for continuous use with full flask capacity.

Stainless steel chamber

New to the Incu-Shaker series is the addition of a high grade stainless-steel chamber. The chamber is precision-engineered with consistent, repeatable culture growth in mind, and provides unmatched temperature uniformity throughout the entire chamber.

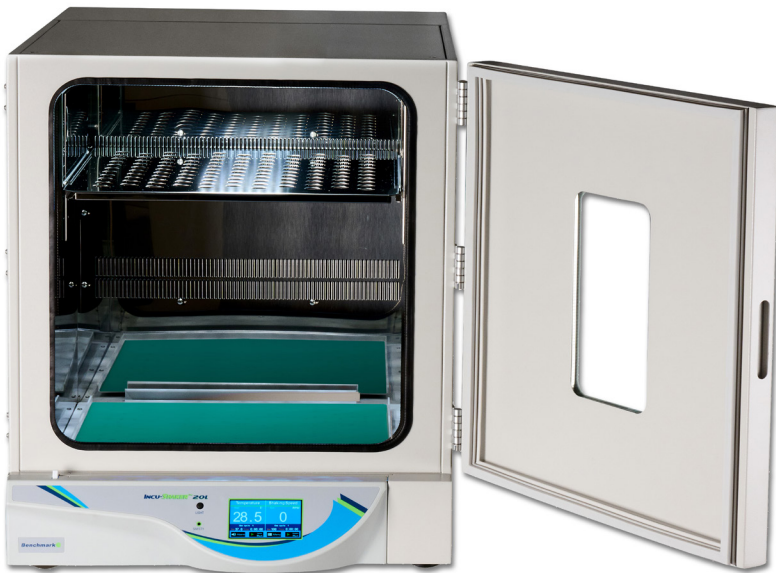


Adjustable shelf

An included pull-out, stainless steel shelf allows for static incubation in addition to shaking incubation. Perfect for Petri dishes and other cell culture plates, the shelf can be adjusted for height as needed for additional capacity or flask height clearance.

Touch-screen controls

Shaking speed, time, and temperature can all be controlled on the standard full-color touch screen. Programming of up to 5 linked temperature and shaking speed steps can be accomplished on the unit.



Technical Data:

Temperature Range (20L):	Ambient +5 to 60°C
Temperature Range (20LR):	4°C to 60°C
Temperature Accuracy:	±0.1°C at 37°C
Temperature Uniformity:	±0.5°C at 37°C
Temperature Increment:	0.1°C
Speed Range:	30 to 300 rpm
Speed Increment:	1 rpm
Mixing Orbit:	19mm (3/4 in.)
Time Range:	1 min. to 48 hours (or continuous)
Platform Dimensions:	18 x 18 in. (45 x 45 cm)
Chamber Dimensions: (W x D x H)	20 x 19.9 x 22.7 in. (51 x 50.5 x 57.7 cm)
Chamber Volume:	149L
Chamber Material:	Stainless Steel, 304
Exterior Dimensions: (W x D x H)	23.6 x 34.3 x 28.7 in. (60 x 87 x 73 cm)
Weight:	304 lbs / 138 kg
Electrical:	120V or 230V, 50-60Hz

Maximum Capacity Chart (Per Unit):

500ml Flasks	1000ml Flasks	2000ml Flasks	2.8L Fernbach	3000ml Flasks	4000ml Flasks	5000ml Flasks	6000ml Flasks
16	9	5	5	5	4	4	2



MAGic Clamp Platform
H1010-MR with Adjustable MAGic Clamp (H1000-MR-CMB)

The new Benchmark Incu-Shaker™ 20L and 20LR introduce high-throughput, high-precision shaking incubators to the Incu-Shaker family. Now with stacking capability of up to 2 units, the Incu-Shaker 20L series are highly space-efficient without compromising on reliability or temperature performance. Where applicable, the Incu-Shaker 20L can be stacked on top of the 20LR. Even when stacked, the Incu-Shaker 20L and 20LR are rated for continuous use with maximum flask capacity. A convenient access port is included on the left side of both units, allowing for external temperature monitoring, or for power cables to run into the chamber without compromising the integrity of the environment.

The same powerful brushless induction drive is featured as in other Incu-Shaker instruments, which has been extensively tested to provide years of consistent, maintenance-free service. The new advanced motor isolation system is computer-designed to minimize noise and vibration levels, even when two stacked units are in use. The high grade stainless-steel internal chambers provide temperature accuracy within $\pm 0.1^{\circ}\text{C}$, and industry-leading uniformity within the chamber of $\pm 0.5^{\circ}\text{C}$.

Ideal for medium to high-throughput culture growth, the increased chamber size now allows for up to 4 5-Liter Erlenmeyer flasks to be in use at once. Additionally, adjustable shelving is included for static incubations, expanding the versatility of the Incu-Shaker 20L series. The Incu-Shaker 20L and 20LR are also fully compatible with Benchmark's MAGIC Clamp™ magnetic attachment system, and the variety of supported vessel types expand the range of applications to include enzymatic studies, biosorbent analysis, water contamination studies, and more.

Ordering Information:

H3020* Incu-Shaker 20L with 18 x 18" non-slip rubber mat platform, 115V

H3022* Incu-Shaker 20LR with 18 x 18" non-slip rubber mat platform, 115V

MAGic Clamp Accessories

H1010-MR MAGic Clamp Universal Platform, 18 x 18 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-2000 Magic Clamp Flask Clamp, for 2L Erlenmeyer flask

H1000-MR-3000 Magic Clamp Flask Clamp, for 3L Erlenmeyer flask or 2.8L Fernbach

H1000-MR-5000 Magic Clamp Flask Clamp, for 5L Erlenmeyer flask

H1000-MR-6000 Magic Clamp Flask Clamp, for 6L Erlenmeyer flask

H1000-MR-MP Magic Clamp Microplate Clamp, for 1 microplate or deep-well plate

H1000-MR-T15 Magic Clamp Tube Rack, 32 x 15ml

H1000-MR-T50 Magic Clamp Tube Rack, 15 x 50 ml

H1000-MR-1550 Magic Clamp Tube Rack combination rack, 20 x 50 ml and 30 x 15 ml

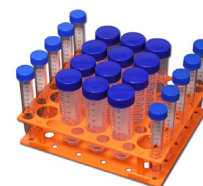
H1000-MR-T600 Magic Clamp Tube Rack, 4 x 500/600ml bottles

H1000-MR-TSR Magic Clamp Slanted Tube Rack Holder, adjustable angle

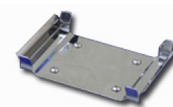
*115V with USA Plug. For 230V with EU plug, add (-E)



H1000-MR-CMB



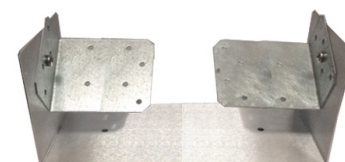
H1000-MR-1550



H1000-MR-MP



H1000-MR-T600



H1000-MR-TSR

Ordering Information (Flasks):

F4060-F	125 ml Erlenmeyer flask, PETG, flat base, disposable, qty 24
F4061-F	250 ml Erlenmeyer flask, PETG, flat base, disposable, qty 12
F4062-F	500 ml Erlenmeyer flask, PETG, flat base, disposable, qty 12
F4063-F	1000 ml Erlenmeyer flask, PETG, flat base, disposable, qty 6
F4060-B	125 ml Erlenmeyer flask, polycarbonate, baffled base, autoclavable/reusable, qty 24
F4061-B	250 ml Erlenmeyer flask, polycarbonate, baffled base, autoclavable/reusable, qty 12
F4062-B	500 ml Erlenmeyer flask, polycarbonate, baffled base, autoclavable/reusable, qty 12
F4063-B	1000 ml Erlenmeyer flask, polycarbonate, baffled base, autoclavable/reusable, qty 6
F4086	2.8L Jumbo Erlenmeyer/Fernbach flask, styrene/butadiene, baffled base, qty 6
F4087	5L Jumbo Erlenmeyer/Fernbach flask, styrene/butadiene, baffled base, qty 4

Also Available:



INCU-SHAKER™
Mini

Compact footprint with exceptional performance and reliability



INCU-SHAKER^{CO2}
Mini

Newest generation CO₂ incubator technology with integrated shaker