

Incubator Shaker Portfolio



Model	Innova® S44i	Innova® 44/44R	Innova® 43/43R	Innova® 42/42R	Innova® 40/40R	Excella® E24/E24R	New Brunswick™ S41i
Positioning	Most advanced stackable (2-3x) incubator shaker with highest capacity in our portfolio - ready for high yield plasmid/protein expression protocols	Stackable (2-3x) incubator shaker with high vessel capacity	Top-loading incubator shaker with large capacity for easy handling flasks with volume up to 6 L	Space-saving, stackable (2x) incubator shaker with high versatility regarding lab positioning and options	Benchtop orbital shaker with compact design and capacity for flasks with a volume up to 3 L	Benchtop orbital shaker at a value price, basic version of the Innova 40	Large (170 L) CO ₂ incubator shaker with integrated high temperature disinfection and shaker inside
Capacity	extra large	large	large	medium	medium	medium	medium
Platform size (cm/in)	76 × 62 cm (30 × 24 in)	76 × 46 cm (30 × 18 in)	76 × 46 cm (30 × 18 in)	46 × 46 cm (18 × 18 in)	46 × 46 cm (18 × 18 in)	46 × 46 cm (18 × 18 in)	36 × 61 cm (14 × 24 in)
Max. vessel volume (without static shelf, depending on flask format)	5 L	5 L	6 L	6 L	3 L	3 L	4 L
Application-related features							
Bacteria, Yeast, Fungi, Insect cells	yes	yes	yes	yes	yes	yes	no
Algae/plant cells	yes (LED-light, tunable intensity to simulate day/night-cycles)	yes (fluorescent bulbs, no intensity modulation)	yes (fluorescent bulbs, no intensity modulation)	yes (fluorescent bulbs, no intensity modulation)	no	no	no
Mammalian cells (CO₂ control & humidification)	no	no	no	no	no	no	yes
Parallel static cultivation	yes (static shelves optional)	no	no	yes (one static shelf included, culture drawer for Agar plates optional)	no	no	yes (static shelf included)
Orbit	2.5/5.1 cm (1/2 in)	2.5/5.1 cm (1/2 in)	2.5/5.1 cm (1/2 in)	1.9/2.5 cm (0.75/1 in)	1.9/2.5 cm (0.75/1 in)	1.9 cm (0.75 in)	2.5 cm (1 in)
Temperature range	Incubated: 5 °C above ambient to 80 °C; Refrigerated: 20 °C below ambient (min. 4 °C) to 80 °C.	Incubated: 5 °C above ambient to 80 °C; Refrigerated: 20 °C below ambient (min. 4 °C) to 80 °C (max. 70 °C with PS-light, 60 °C with rH-monitoring).	Incubated: 5 °C above ambient to 80 °C; Refrigerated: 20 °C below ambient (min. 4 °C) to 80 °C (max. 70 °C with PS-light, 60 °C with rH-monitoring).	Incubated: 5 °C above ambient to 80 °C; Refrigerated: 20 °C below ambient (min. 4 °C) to 80 °C (max. 70 °C with PS-light, 60 °C with rH-monitoring).	Incubated: 5 °C above ambient to 80 °C; Refrigerated: 15 °C below ambient (min. 4 °C) to 80 °C.	Incubated: 7 °C above ambient to 60 °C; Refrigerated: 15 °C below ambient (min. 4 °C) to 60 °C.	Ambient +4 °C to 50 °C
Speed range	2.5 cm orbit: 20 – 400 rpm, 5.1 cm orbit: 20 – 300 rpm	25 – 400 rpm with 2.5 cm orbit; 25 – 300 rpm with 5.1 cm orbit or 2 stacked units; 25 – 250 rpm with 3 stacked units	25 – 500 rpm with 2.5 cm orbit; 25 – 300 rpm with 5.1 cm orbit	25 – 400 rpm; 25 – 300 rpm when using flasks > 500 mL in stacked devices	50 – 400 rpm	50 – 400 rpm	25 – 400 rpm (25 – 250 rpm if stacked)
Lab position and stackability							
Lab position	floor	floor	floor (console-style)	floor, under/on bench	benchtop	benchtop	floor, under/on bench
Stackability	up to 3-fold	up to 3-fold	non-stackable	up to 2-fold	non-stackable	non-stackable	up to 2-fold
Handling, ergonomics, programmability							
Door opening	glide up	glide up	console style	opening to front	top opening hood	top opening hood	opening to front
Platform type	slide out	slide out	fixed	fixed	fixed	fixed	fixed
Programming steps / storable programs	unlimited/unlimited	15/4	15/4	15/4	15/4	–	–
Drive mechanism	Eppendorf X-Drive	triple-eccentric counterbalanced drive	triple-eccentric counterbalanced drive	triple-eccentric counterbalanced drive	triple-eccentric counterbalanced drive	unicentric counterbalanced drive	triple-eccentric counterbalanced drive
Dimensions (W × D × H)	118.2 × 86.9 × 63 cm / 46.5 × 34.2 × 24.8 in	134.9 × 84.3 × 66 cm / 53.1 × 33.2 × 26 in	115.6 × 81.3 × 103.1 cm / 45.5 × 20 × 40.6 in	63.5 × 74.5 × 81.8 cm / 25 × 29.3 × 32.8 in	55.9 × 76.2 × 61 cm / 22 × 30 × 24 in	56 × 76 × 61 cm / 22 × 30 × 24 in	87.5 × 73 × 85 cm / 34.4 × 28.7 × 33.5 in



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