

# Stackable Incubator Shakers for High Capacity: Innova® S44i vs. New Brunswick™ Innova® 44/44R



Your Requirements	Innova S44i	New Brunswick Innova 44/44R
<b>Vessel and load capacity:</b> Are you looking for maximum possible vessel and load capacity?	Yes <input type="checkbox"/>	No, high-capacity/high-load is sufficient <input type="checkbox"/>
<b>Lab space:</b> Is lab space at a premium where you require a high capacity-to-footprint ratio?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>Shaking speed:</b> Will you shake faster than 250 rpm in a triple stack or faster than 300 rpm with a 5.1 cm orbit in a double stack? (e.g. for high-yield protocols)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>Ergonomics:</b> Are looking for premium ergonomic handling? (e.g. platform handling, user interface)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>Documentation and user management:</b> Do you require comprehensive documentation or user management?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>Programming:</b> Do you need... > more than four programs or 15 steps/program or > multi step programming/cycling of shaking speed, temperature, and (optional) photosynthetic light intensity	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>Contamination prevention:</b> Do you require extra anti-contamination measures like airflow decontamination?	No <input type="checkbox"/>	Yes <input type="checkbox"/>
<b>Humidity:</b> Do you need humidity monitoring (without control mechanism)?	No <input type="checkbox"/>	Yes <input type="checkbox"/>
<b>Growth of phototrophic organisms:</b> Do you need... > highly uniform light coverage across the entire platform or > flexible intensity and time programming	Yes <input type="checkbox"/>	No <input type="checkbox"/>

The Innova S44i is our flagship incubator shaker for your greatest demands for capacity, performance, flexibility, documentation, programming, and ergonomics. The New Brunswick Innova 44/44R is our more economical, workhorse incubator shaker for basic applications that demand high capacity in a small footprint.

> Discover all stackable incubator shakers at: [www.eppendorf.com/shakers](http://www.eppendorf.com/shakers)



	Innova® S44i	New Brunswick™ Innova® 44/44R
<b>Vessel capacity (universal/dedicated platform)</b>		
125 mL Erlenmeyer	81/86	39/60
250 mL Erlenmeyer	49/53	30/40
500 ml Erlenmeyer	36/39	24/24
1 L Erlenmeyer	20/23	14/15
2 L Erlenmeyer	13/15	8/12
2.5 L Ultra Yield™	13/15	8/-
<b>Maximum flask size</b>		5 L
<b>Placement/orientation</b>		> Floor > Stackable (x3)
<b>Temperature range</b>		> Incubated: 5 °C above ambient to 80 °C > Refrigerated: 20 °C below ambient (min. 4 °C) to 80 °C
<b>Temperature uniformity</b>	±0.25 °C at 37 °C and 250 rpm	±0.25 °C at 37 °C
<b>Speed range</b>	> 2.5 cm orbit: 20 – 400 rpm > 5.1 cm orbit: 20 – 300 rpm	> 2.5 cm orbit: 25 – 400 rpm > 5.1 cm orbit or 2 stacked units: 25 – 300 rpm > 3 stacked units: 25 – 250 rpm
<b>Orbit options</b>		2.5 cm (1.0 in) or 5.1 (2.0 in)
<b>Platform size</b>	76 × 62 cm (30 × 24 in)	76 × 46 cm (30 × 18 in)
<b>Platform type</b>	Slide-out platform for one-handed operation	Basic slide-out platform
<b>Drive mechanism</b>	Eppendorf X-Drive with semi-automated counterbalance setting	Triple-eccentric counterbalanced drive
<b>Motor type</b>		Solid state, DC brushless motor
<b>Dimensions (W × D × H) excluding base</b>	118.2 × 86.9 × 63.0 cm (46.5 × 34.2 × 24.8 in)	134.9 × 84.3 × 66.0 cm (53.1 × 33.2 × 26 in)
<b>External height (with lid/door open)</b>	114.1 cm (44.9 in) excluding base	119.0 cm (46.9 in) excluding base
<b>Space-saving glide-up doors</b>	yes	yes
<b>Weight, single unit, incubated w/o options</b>	178 kg (392 lb)	238 kg (525 lb)
<b>User interface</b>	VisioNize® touch interface	Basic control knob and LCD screen
<b>Audible and visual alarms</b>		yes
<b>Available program modes</b>	> Constant speed and temperature > Timed shaking mode up to 95:59 hours > Multi step programming/cycling – parameters include shaking speed, temperature, and (optional) photosynthetic light intensity	> Constant speed and temperature > Programmable multi-steps > RS-232 communication port
<b>Storable programs/steps per program</b>	unlimited/unlimited	4/15
<b>Timer</b>	0.01 – 95.59 h, continuous	0.01 – 99.59 h, continuous
<b>Photosynthetic lights</b>	LED	Fluorescent bulbs
<b>Additional contamination prevention option</b>	–	UV germicidal lights

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