

# Small, Stackable Shaker

Innova® 42/42R: Our most versatile shaker, ready for your needs

**Check your samples:**

Large, triple-pane, insulated viewing window and an internal light provide a clear view of the chamber contents

**Saves lab space and is easy to move:**

Small footprint of only 63.5 × 74.5 cm / 25 × 29.3 in; weight 98 kg / 216 lb (42), 121 kg / 266 lb (42R)

**Smart shaker drive control:**

Smooth acceleration and deceleration avoid splashing and mechanical damage; for safety, shaker stops, if door is opened or excessive imbalance is detected to prevent the shaker from walking



**Ergonomical and safe interface handling:** Top mounted controls and display make bending down unnecessary, avoids accidental parameter changes, and can be reached easily even in a double stack

**Programming:**

Continuous, timed, or multi-step programs with up to 15 steps, four programs storable

**High capacity in a small footprint:**

for example, up to 4x 5 L or 2x 6 L Erlenmeyer flasks on universal platform

**Durable and corrosion-resistant:** Powder-coated, stainless-steel exterior and interior

# Compact and Versatile

**Stackable, incubated, refrigerated shaker with removable stationary shelf**

If versatility is what you need, look no further. The Innova 42 and Innova 42R incubator shaker is available with a large list of optional extras, allowing you to customise your shaker to your application. Furthermore, the Innova 42/42R can be stacked in pairs or tucked under a standard lab bench - either way, you'll save space. Static incubation is included via one static shelf - which can be used simultaneously whilst the Innova 42/42R is shaking other cultures. It's hard to believe that a typical 6 L flask can be used in this compact shaker.

**Recommended applications:**

- > Cultivation of bacteria, yeast, fungi, insect cells, e.g. for protein expression
- > Cultivation of algae or plant cells (photosynthetic light bank optional)
- > Plasmid production / Bacterial clone selection on Agar plates
- > Media optimization
- > Mixing and shaking of samples (e.g. for staining, washing, extraction or hybridisation)
- > Solubility studies



**Lab position flexibility:** and small footprint  
The Innova 42/42R can be positioned on or under the bench ( $\geq 84$  cm / 33 in) – either way, you will save space with the small footprint (W x D: 63.5 x 74.5 cm / 25 x 29.3 in).



**Parallel static cultivation:** One removable, height adjustable, stainless steel shelf above the shaker platform is included; additional shelves are available.



**Sample desiccation and medium evaporation protection:** The optional culture drawer can be used, for example, to protect Agar plates from desiccation to maximize clone viability.

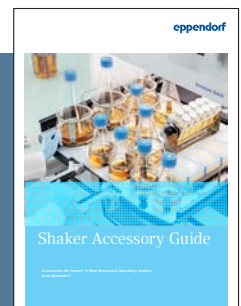


**Spill protected and easy to clean:** The Innova triple-eccentric drive is protected from spills by a covering spill diverter underneath the shaker platform (left). The spill diverter guides liquids to the drainable spill pan with rounded corners underneath (middle and right, tubing and connector not supplied). The built-in spill pan can also be used as water reservoir to reduce medium evaporation – humidity monitoring is optional.



**Ready for low- to medium-speed applications:** Sticky pads on specialized platforms are a clamp alternative for flat bottom vessels and low-speed applications (max. 200/250 rpm at 2/1 in (50/25 mm) orbit). They are re-usable and can be re-positioned simply by peeling it from the surface.

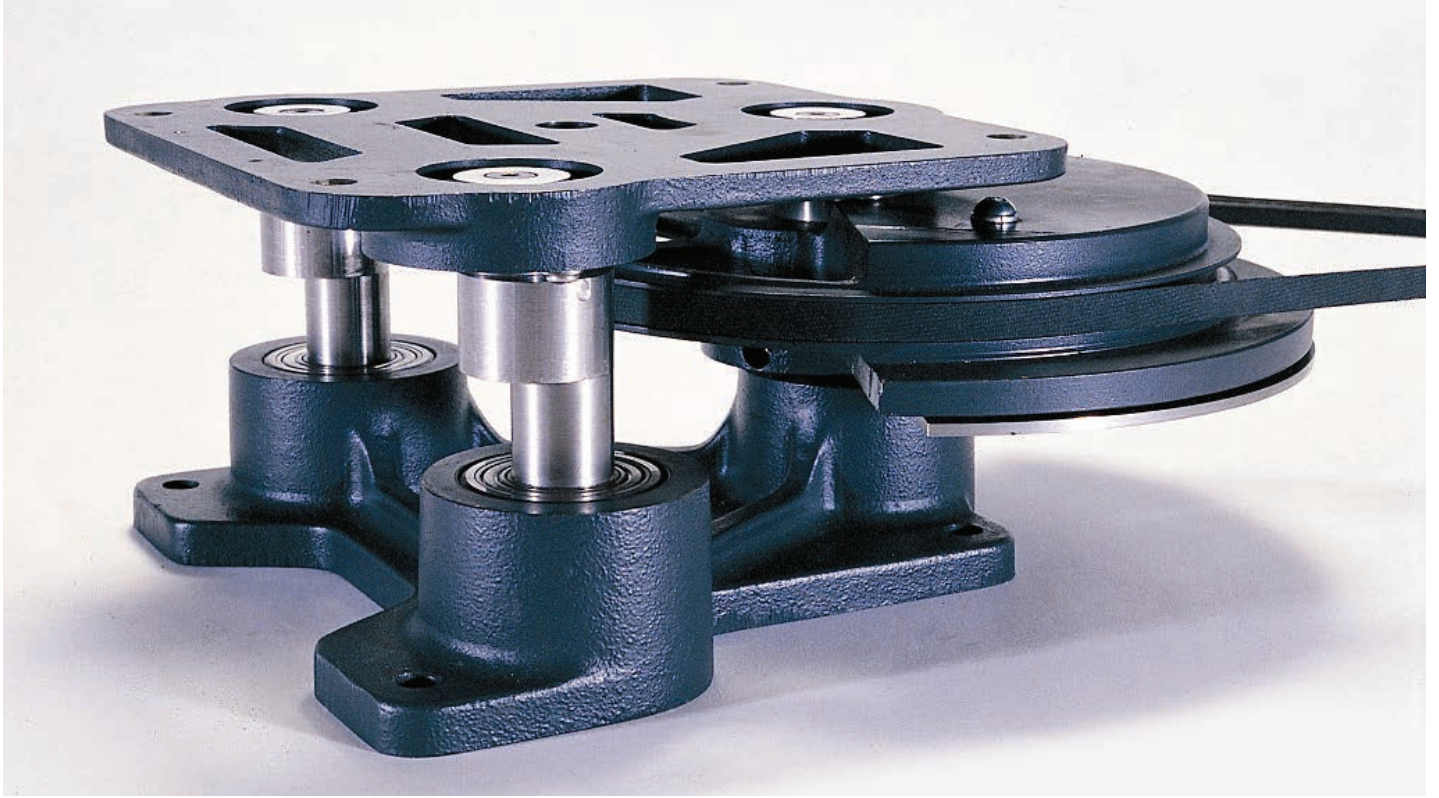
Find vessel capacities and the right accessory for your vessel format and application, along with detailed specifications and information!



Eppendorf Shaker Accessory Guide  
[www.eppendorf.com/shaker-accessory-guide](http://www.eppendorf.com/shaker-accessory-guide)







# Built to Perform & Last

Unexpected downtime and late results are not an option for you? And do you have more important things to do than organize repair for your benchtop orbital shaker over the weekend? Since its introduction more than 50 years ago, the cast iron triple-eccentric drive from Eppendorf has been the gold-standard in shaker drive technology. The heavy-duty construction of the triple-eccentric drive gives you confidence that our shakers will perform to your specifications, even when fully loaded and operating at top speed.



## Peace of Mind – Your Service Options

### Our Service Agreements – Your Advantages

With our basket of Service Agreement solutions, we take the load off your shoulders by simplifying your ordering and budgeting process for various services over the full lifetime of your instruments.

Your costs become reduced and predictable, thereby assuring continuous productivity and a long service life. In addition, our agreements include repair costs – fully or partially – and discounts on other services.

## Eppendorf Service Agreements



Services Agreement	AdvancedCare For assured instrument reliability an uptime	PremiumCare For assured instrument reliability, uptime and financial plannability
Full preventive maintenance	1/year	1/year
Priority support* <sup>1</sup>	■	■
Spare parts, labor, travel on repairs	20% discount	included
Discount on additional services (e.g. IQ/OQ)	10%	10%

\*<sup>1</sup> Subject to local business conditions, and based on a »best effort« practise. For more information please contact your local service organization.



**Innova® 42/42R**

**Comparable Shaker #1**

**Comparable Shaker #2**

Capacity and compatibility			
Orbit options	1.9 or 2.5 cm (0.75 or 1 in)		
Platform size	46 × 46 cm (18 × 18 in)		
Max. flask size	6L*		
Drive type	Triple-eccentric counterbalanced (three shafts to support weight), nine permanently lubricated ball bearings		
Motor type	Solid state brushless DC		
Growth Conditions			
Speed range	25 – 400 rpm**		
Speed increment	1 rpm		
Speed accuracy	±1 rpm		
Speed deviation alarm (visible & audible)	±5 rpm		
Temperature range	Incubated: ambient + 10 °C to 80 °C; Refrigerated: ambient -20 °C (min. 4 °C) to 80 °C (max. 70 °C with PS-light, 60 °C with rH-monitoring).		
Temperature increment	0.1 °C		
Ambient temperature	10 – 35 °C		
Temperature accuracy	±0.1 °C (at 37 °C)		
Temperature deviation alarm (Visible & audible)	±1 °C (heat turns off to regulate to setpoint, additional independent over-temperature cutoff included)		
Power outage behavior	Automatic restart to last setpoints after power is restored, indicated by flashing display		
Handling, Ergonomics, Service			
Programming of temperature or speed	Yes (15 steps, 4 programs storable)		
User interface	Large LCD display (12.5 x 6.5 cm/ 4.9 x 2.6 in) with display of setpoint and actual values		
Logging of chamber temperature, rpm, and alarms, remote parameter and status monitoring, alarm notifications via email or SMS	Yes, via RS-232 interface combined with VisioNize® Lab Suite (VisioNize® box required)***		
Weight & Dimensions			
Weight, incubated / refrigerated	98 / 121 kg (216 / 266 lbs)		
Dimensions (W × D × H)	63.5 × 74.5 × 81.8 cm (25 × 29.3 × 32.2 in)		

\*Maximum flask size limited to 4 L with installed drawer, shelf or photosynthetic light bank (shelf and drawer removable, shelf adjustable in height). Distance platform to ceiling: ~47.7 cm, platform to drawer ~35.3 cm, platform to shelf (in position 5 from top) ~36.8 cm

\*\*Maximum speed of 300 rpm for flasks larger than 500 mL in stacked devices

\*\*\*Check availability in your country

## Ordering information

Description	Order no.
<b>New Brunswick Innova® 42</b>	
stackable up to 2-fold, orbit 1.9 cm (0.75 in)	<a href="#">see online*</a>
stackable up to 2-fold, orbit 2.5 cm (1 in)	<a href="#">see online*</a>
<b>New Brunswick Innova® 42R</b>	
refrigerated, stackable up to 2-fold, orbit 1.9 cm (0.75 in)	<a href="#">see online*</a>
refrigerated, stackable up to 2-fold, orbit 2.5 cm (1 in)	<a href="#">see online*</a>
<b>Stacking kit</b> , for stacking Innova® 42/42R units	M1335-0800
<b>Stacking kit</b> , for stacking Innova® 4200/4230 units on top of Innova® 42/42R shakers	M1335-0810
<b>Additional perforated shelf and brackets</b> , stainless steel, for Innova® 42/42R	M1335-0080
<b>Platforms for Innova® 2100/40/40R/42/42R, Excella® E24/E24R</b> , 46 × 46 cm (18 × 18 in), phenolic resin (unless otherwise stated)	
Universal platform, aluminum	M1250-9902
125 mL Erlenmeyer flask dedicated platform	M1194-9904
250 mL Erlenmeyer flask dedicated platform	M1194-9905
500 mL Erlenmeyer flask dedicated platform	M1194-9906
1 L Erlenmeyer flask dedicated platform	M1194-9907
2 L Erlenmeyer flask dedicated platform, for 2 L wide neck Erlenmeyer flasks (DIN-ISO 24450), bottom diameter ~153 mm. For 2 L narrow neck Erlenmeyer, Thomson, or Corning flasks (DIN-ISO 1773) bottom diameter ~166 mm refer to universal platform and clamps M1190-9004.	M1194-9908
<b>Sticky pad platform for Innova® 40(R)/42(R)/2100, Excella® E24(R)</b> , 46 × 46 cm (18 × 18 in), 4 sticky pads necessary to cover platform (sold separately, order no: M1250-9700), anodized aluminum	M1250-9903
<b>Sticky pad adapter kit</b>	M1250-9504
<b>Sticky pad</b>	M1250-9700
<b>Quick-change platform kit</b> , enables platform attachment without tools, for Innova® 2100/4000/4080/4230	M1192-9901
<b>Culture drawer</b> , (height adjustable) prevents plates from drying	M1335-0501
<b>Utility carrier</b> , holds racks and vessels between x2 rubber-cushioned cross bars, for Innova® 2100/Innova® 40 /Innova® 42/ Excella® 24	M1194-9909
<b>Rod kit</b> , for utility carrier (one additional rod), of Innova 40/42/2100 and Excella 24 lab shakers	M1194-9923
<b>Utility tray with non-skid rubber surface for Innova® 2100, 40, 42</b> , usable as a stand-alone – no other platform required	M1194-9910
<b>Drip pan</b> , to catch accidental spills, for universal platform M1250-9902	M1250-9906
<b>Photosynthetic light bank</b> , programmable, Innova® 42R only - contact Eppendorf for installation options	M1335-0300
<b>UV germicidal light</b> , programmable, Innova® 42R only - contact Eppendorf for installation options	M1335-0400
<b>Humidity monitor</b> , for Innova® 42/42R - contact Eppendorf for installation options	M1335-0500
<b>12-port gassing manifold</b> , for Innova® 42/42R - contact Eppendorf for installation options	M1335-0600
<b>Remote alarm option</b> , for Innova® 44/44, Innova® 43/43, Innova® 42/42 or Innova® 40/40	M1320-8029
<b>VisioNize® Lab Suite (VisioNize® box required)</b> , remote parameter and status monitoring, alarm notifications via email or SMS, response-based alarm escalation + more. <b>Check availability in your country</b> – sign up and connect 3 devices for free.	<a href="#">Sign up online</a>

\*To find the correct order number for your country, please check [www.eppendorf.com/shakers](http://www.eppendorf.com/shakers) or contact your local sales representative.

Looking for *Service Agreements* including annual full preventive maintenance or IQ/OQ GxP qualification services?  
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