



# Large, Stackable Shaker

Increased throughput & increased yields with  
Innova® 44/44R Incubated Shaker

**Tight temperature, speed and balance control:** Temperature accuracy and uniformity:  $\pm 0.1$  °C and  $\pm 0.25$  °C, notification at  $\pm 0.5$  °C deviation; speed control:  $\pm 1$  rpm and notification at  $\pm 5$  rpm deviation; automatic imbalance detection

**Easy door and platform handling:** The space-saving door glides up and out of your way for easy access to all samples and easy service

**De-centralized cooling:** Every refrigerated device ( $-20$  °C/ $-34$  °F below ambient) in a stack comes with its own integrated cooling unit, significantly lowering the impact in the unlikely case of failure



**Saves money:** No internal HEPA-filter that must be replaced annually to ensure sufficient airflow

**Smart shaker drive control:** Smooth acceleration and deceleration avoid splashing and mechanical damage; for safety, shaker stops, if door is opened or excessive imbalance

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

**Cross-contamination control:** Optional airflow UV-germicidal light outside the chamber

# The Workhorse for Your Lab

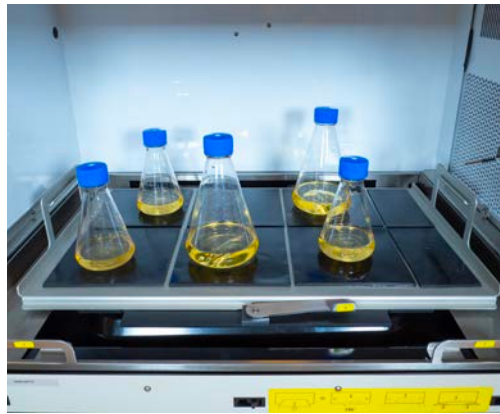
**Incubated, refrigerated and stackable up to three high**  
The Innova 44 and Innova 44R stackable incubator shakers both feature the Eppendorf triple-eccentric counterbalanced drive and are a time-proven enabler for many scientists around the world. These incubator shakers provide years of dependable operation. The cast iron support and counter balanced drive is specifically designed to enable high speed applications and heavy workloads. Innova 44/44R incubator shakers provide broad temperature capabilities and options for culturing a wide variety of organisms. The height clearance and platform size allows for multiple cultures in typical 5 L flasks.

**Recommended applications:**

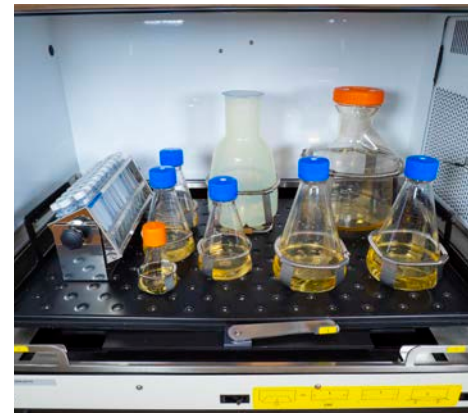
- > Cultivation of (thermophile) bacteria, yeast, fungi, insect cells, e.g. for protein expression
- > Cultivation of algae or plant cells (photosynthetic light bank optional)
- > Media optimization
- > Mixing and shaking of samples (e.g. for staining, washing, extraction or hybridisation)
- > Solubility studies



**Best fit for your lab needs:** Three positioning bases are available: 10 cm, 30 cm, or 40 cm (4 in, 12 in, or 16 in)



**Flexibility for various vessel formats:** Various accessories are available including a sticky pad platform for low-speed shaking of flat bottom vessels.



**Vibration- and trouble-free operation for years:** Three weight-supporting shafts, nine permanently lubricated ball bearings and the large platform bearing surface support the platform load



**Spill protected and easy to clean:** The Innova triple-eccentric drive is protected from spills by the unique drainable spill pan with rounded corners. The spill pan can also be used as water reservoir to reduced medium evaporation.



**Fast and easy service:** A service drawer ensures quick access to all electronic and heating/cooling components without the need to move or unstack the shaker.



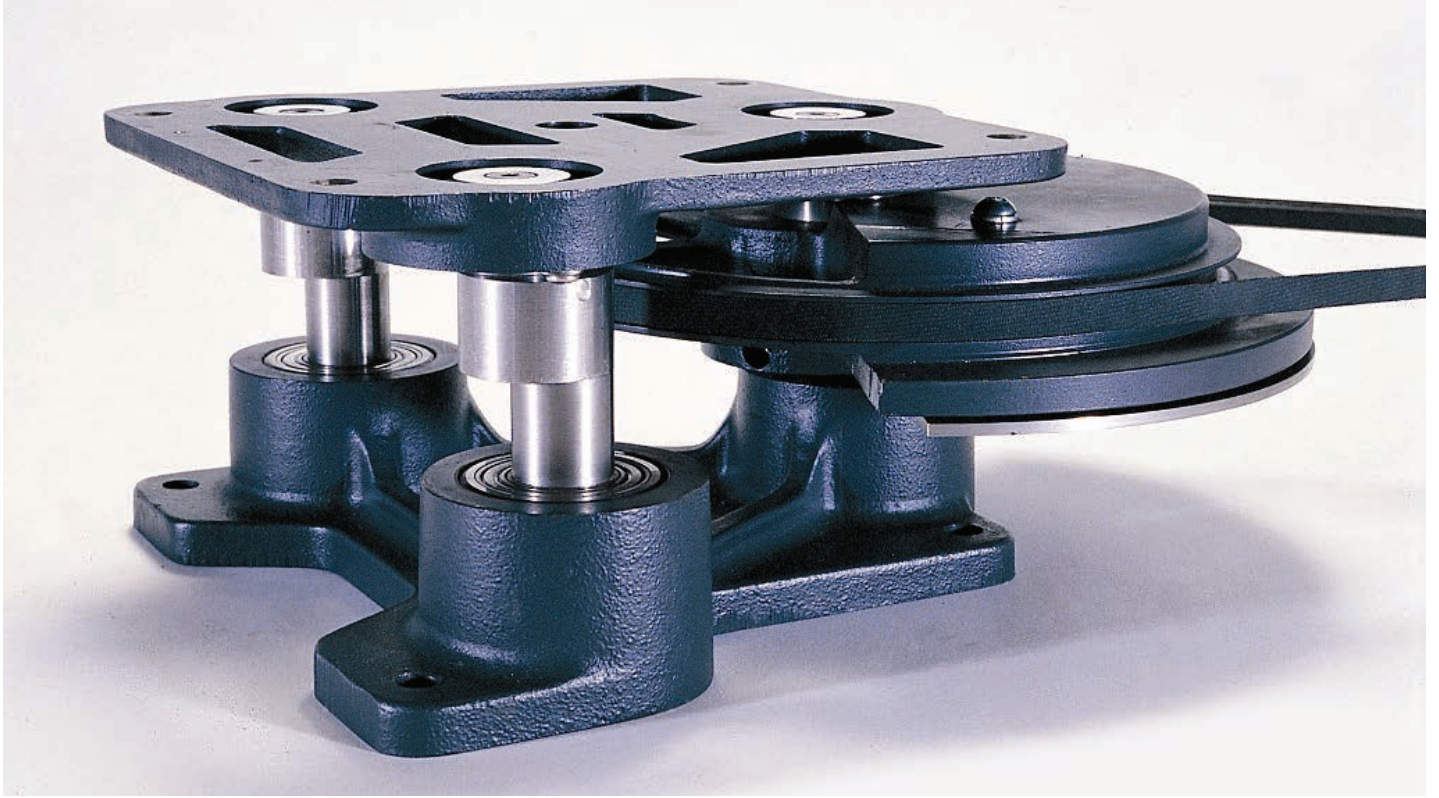
**Everything at a glance:** The large 240x128 backlit LCD display lets you check on actual readings and set points even from a distance. In addition to standard parameters, the relative humidity can be displayed if the optional Humidity Monitor is installed.

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 our 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® 44/44R**

**Comparable Shaker #1**

**Comparable Shaker #2**

Capacity and compatibility			
Orbit options	2.5 or 5.1 cm (1 or 2 in)		
Platform size	76 × 46 cm (30 × 18 in)		
Max. flask size	6 L		
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 with 2.5 cm orbit; 25 – 300 rpm with 5.1 cm orbit or 2 stacked units; 25 – 250 rpm with 3 stacked units		
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 30–40 °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 × 6.5 cm/ 4.9 × 2.6 in), 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)*		
Sound pressure	<65 dbA		
Weight & Dimensions			
Weight, incubated / refrigerated	181 / 188kg (400 /415 lbs)		
Dimensions (W × D × H)	118.2 × 86.9 × 63 cm (46.5 × 34.2 × 24.8 in)		

\*Check availability in your country

## Ordering information

Description	Order no.
<b>New Brunswick Innova® 44</b>	
stackable up to 3-fold, orbit 2.5 cm (1 in)	<a href="#">see online*</a>
stackable up to 3-fold, orbit 5.1 cm (2 in)	<a href="#">see online*</a>
<b>New Brunswick Innova® 44R</b>	
refrigerated, stackable up to 3-fold, orbit 2.5 cm (1 in)	<a href="#">see online*</a>
refrigerated, stackable up to 3-fold, orbit 5.1 cm (2 in)	<a href="#">see online*</a>
<b>Stacking kit</b> , for stacking one additional 44 or 44R (3 × Innova® 44/44R can be placed in a single stack)	M1282-0500
<b>Universal platform for Innova® 44/44R</b> , 76 × 46 cm (30 × 18 in), not interchangeable with other 76 × 46 cm platforms	M1282-9904
<b>Aluminum platform for Innova® 44/44R</b> , 76 × 46 cm (30 × 18 in), not interchangeable with other 76 × 46 cm platforms	
125 mL Erlenmeyer flask dedicated platform	M1282-9905
250 mL Erlenmeyer flask dedicated platform	M1282-9906
500 mL Erlenmeyer flask dedicated platform	M1282-9907
1 L Erlenmeyer flask dedicated platform	M1282-9908
<b>2 L Erlenmeyer flask dedicated platform for Innova® 44</b> , 76 × 46 cm (30 × 18 in), 12 clamps, aluminum, 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, please refer to universal platform and clamps M1190-9004	M1282-9909
<b>Shaker clamps, microplate racks and test tube racks</b>	<a href="#">see online*</a>
<b>Sticky pad platform for Innova® 44(R)</b> , 76 × 46 cm (30 × 18 in), 7 sticky pads necessary to cover platform (sold separately, order no: M1250-9700, cutting required), anodized aluminum	M1282-9913
<b>Sticky pad adapter kit</b>	M1250-9504
<b>Sticky pad</b>	M1250-9700
<b>Heavy duty 0.95 cm-thick aluminum plate platform for Innova® 44/44R only</b> , 76 × 46 cm (30 × 18 in), not interchangeable with other 76 × 46 cm platforms. Heavy-duty platforms are recommended for shaking full loads of flasks, 1 L and larger, containing more than 20 % volume or with baffles.	
Heavy duty universal platform	M1282-9915
1 L Erlenmeyer flask dedicated platform, heavy duty	M1282-9925
2 L Erlenmeyer flask dedicated platform, heavy duty, for 2 L wide neck Erlenmeyer flasks (DIN-ISO 24450)	M1282-9926
<b>Positioning bases</b> , increases the height of the shaker for easier access, mandatory for stacked shakers	
for Innova® 44/44R, 10.2 cm, short	M1282-0600
for Innova® 44/44R, 30.5 cm, medium	M1282-0800
for Innova® 44/44R, 40.6 cm, tall	M1282-0700
<b>12-port gassing manifold</b> , for Innova® 44R - contact Eppendorf for installation options	M1282-0291
<b>Humidity monitor</b> , for Innova® 44R - contact Eppendorf for installation options	M1282-5011
<b>UV germicidal light</b> , for Innova® 44R - contact Eppendorf for installation options	M1282-9921
<b>Photosynthetic light bank</b> , for Innova® 44R - contact Eppendorf for installation options	M1282-9922
<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?

Contact your Eppendorf representative



### Ready for the future of your lab

The Innova 44/44R is the perfect starting point to significantly increase the shaking capacity and application potential of your lab - with our latest stackable shaker, the Innova S44i. It offers even greater capacity and can be easily stacked on top of an existing Innova 44. The S44i also comes with more advanced programming, enhanced ergonomics, more comprehensive documentation, and user management.

[Compare the Innova S44i with the Innova 44/44R](#)



Your local distributor: [www.eppendorf.com/contact](http://www.eppendorf.com/contact)

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