eppendorf



Incubator Shaker Guide

Innova® and New Brunswick Lab Shakers from Eppendorf



»Consistency across runs, reliability across generations.«

Eppendorf life science solutions have been helping scientists for over 75 years. This history allowed for the evolution of engineering principles, refined over many years, with the long-term view of one of the most well-known & trusted brands in the life science industry.

The result: our customers are at the cutting edge of science and we are evolving to accommodate their requirements.



An innovative legacy

- > For over 75 years, New Brunswick shakers have set the benchmark for robust laboratory orbital shakers
- > Orbital shakers built with customer applications in mind
 - long run times and increasing throughput



Drive mechanisms built to last

- > The Eppendorf Triple Eccentric Drive made from cast iron for dependability and stability
- > The Eppendorf X-Drive is designed from the ground up for shaking greater loads at greater speeds
- > Well-suited for routine applications



Your source for scale-up

- > From the smallest plate on the smallest benchtop up to triplestacked high capacity shakers for process optimization - Eppendorf products facilitate you along your scale-up journey
- > Eppendorf is your source for when your processes demand the exacting control of bioprocess vessels
- > Applications support to guide you along the way

An Innovative Legacy

The legacy began in 1946: the first shaker was developed for Dr. Selman Waksman, who was awarded the Nobel Prize in Medicine for discovering the first antibiotic successfully used against tuberculosis. Eppendorf shakers continue that tradition of innovation and reliability.

Eppendorf Shakers continue to be a global market leader

- > Each generation of shakers has outperformed its predecessor
- > Many shakers have been in operation for over 40 years and remain in operation today
- > Pioneering stackable and microprocessor controlled shakers
- > There are added features and expanded options with each new generation, but the same Eppendorf quality exists today

1946



The first shaker is developed by the Freedman Brothers and New Brunswick Scientific is born. Dr. Selman Waksman of Rutgers uses an updated version of the first New Brunswick Shaker and is awarded the Nobel Prize in Medicine for the first antibiotic that successfully treats Tuberculosis.

1972



The G-Series, the first incubated shakers, are developed. The triple eccentric drive mechanism is born and is still in use today. For the first time, scientists can grow microbial cultures and solutions under controlled conditions of temperature and high rates of agitation.



1997

The introduction of the C-Series and the first Innova line of shakers. State of the art microprocessor controls provide researchers enhanced temperature accuracy and uniformity. The first stackable shaker is developed, providing users more capacity without increasing the necessary space.

2007



New Brunswick introduces an enhanced line of Innova® shakers, recognized as the gold standard for orbital shakers. Excella replaces the C-Series of shakers, built for both performance and value. New Brunswick becomes part of Eppendorf; aligning the market leader in shakers with a leader in lab products.

Eppendorf Shakers keep pace with the modern lab

As the requirements and demands of your applications continue to expand, Eppendorf has continued the proud New Brunswick legacy of meeting your needs with our expanding product lines.

- > Introducing new technologies for more substantial shakers
- > Cultivating convenience and easeof-use
- > Expanding customer support to keep you running at all times
- > Increasing throughput to keep your lab competitive



Our drives have grown and gotten smarter



Our devices are more ergonomic and comfortable to use



Our controls and software offer greater flexibility and control



Our capacities and options have expanded to meet expanding requirements

2017



Eppendorf introduces the Innova S44i incubator shaker and the latest in drive technology–the Eppendorf X-Drive. With optimized agitation and control, along with increased capacity and application options, the Innova S44i is the latest step forward in Eppendorf shaker innovation, enabling scientists to go further, faster.



Built to Perform & Last

Driving growth and excellence

Since its introduction more than 50 years ago, the cast iron triple-eccentric drive from Eppendorf has been the goldstandard in shaker drive technology. It is the foundation upon which Eppendorf shakers and the trust of the scientific community are built. Eppendorf has now designed the next-generation shaker drive to offer you optimal performance, flexibility, and peace-of-mind. We proudly unveil the patented^{*1}, Eppendorf X-Drive.



Eppendorf triple-eccentric drive, available in other Innova models

Built to last

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.

- > Components are fabricated to exacting specifications ensuring stable, vibration-free operation
- > Drive mechanisms properly sized to each shaker, and specifically designed to support high-speed applications and heavy workloads, around-the-clock
- > Made of the highest-quality materials, with superior design and precision fabrication, Innova shakers with triple-eccentric drives have provided scientists with decades of worry-free operation and will continue to do so for many decades to come.



Eppendorf X-Drive, available in Innova S44i models

Shake with ease

The Eppendorf X-Drive is precisely engineered with five-eccentric shafts to balance even heavy loads while providing consistent and smooth shaking.

- > The robust and industrial construction of the drive is designed for around-the-clock operation.
- > Intelligent counterbalance technology of the Eppendorf X-Drive ensures vibration-free shaking even with uneven loads
- > Up to 80 % higher load capacity than Innova 44/44R and up to 183 % higher load capacity than competitor
- > Efficient oxygen transfer for demanding applications with shaking speeds up to 400 rpm*²
- > Available in orbit sizes of 2.5 or 5.1 cm (1 or 2 in)

¹¹ Patent number US 8,226,291 B2. ¹² With 2.5 (1 in) cm orbit only; maximum speed is 300 rpm with 5.1 cm (2 in) orbit



Peace of Mind – Your Service Options



We accompany you every step of the way – from the installation and maintenance of your lab instrument or software to the support of your quality and regulatory conditions.

Biological shakers are required to be in continuous use for years. Small and short-term variations in shaker operation can influence culturing outcomes, with negative effects on yields and/or cell expression. Ensure consistent, reliable shaker performance with our shaker services.

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.

PremiumCare

Eppendorf Service Agreements

Services Agreement	For assured instrument reliability an uptime	For assured instrument reliability, uptime and financial plannability
Full preventive maintenance	1/year	1/year
Priority support*1		
Spare parts, labor, travel on repairs	20% discount	included
Discount on additional services (e.g. IQ/OQ)	10%	10%
*1 Subject to local business conditions, and based on a »best effort« practise. For more informat	tion please contact your local service organization.	

AdvancedCare

Be prepared for your internal and external audits with our GxP compliant documentation

Are you working in a regulated environment? We now offer specifically created and revised Installation Qualification and Operational Qualification services including GxP compliant documentation.

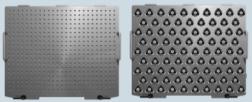
Qualification Services

IQ/OQ GxP	OQ GxP
	-
	-
	_
	IQ/OQ GxP



Ready for Your Application

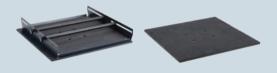
Eppendorf offers a wide range of accessories for lab shakers to provide full flexibility for your processes



Different lab shaker platforms are available to provide you with the right balance between vessel capacity, vessel type flexibility, handling speed, and regarding necessary shaking speeds. **Universal platforms** (left) are the most versatile platform solution as they come with a screw hole pattern, that allows you to combine virtually any combination of Eppendorf shaker accessories, for example different sized clamps, test tube racks and microplate racks. **Dedicated platforms** (right) come complete with clamps of one size pre-installed. They hold a greater number of clamps than the universal platforms, but do not offer the versatility to mix different vessel formats.



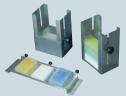
Flask clamps for lab shakers are mostly made of a single piece stainless-steel construction (not spot welded or riveted) for added strength and safety. All flask clamps come with coiled wire springs for added safety and stability at higher shaking speeds. Flasks clamps for 2, 2.8, 4 and 6 L come with an extra girdle for added security and noise reduction.





Utility carrier (left) and **utility tray** (right) are stand-alone platforms that do not require a universal platform. The utility carrier holds racks and vessels between adjustable cushioned cross bars. The utility tray comes with a non-skid rubber surface for low-speed applications that do not require fixation.

Sticky pads are adhesive mats and 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. Sticky pads require an anodized aluminum platform and are thus directly compatible with universal platforms of New Brunswick S41i and Innova S44i. All other shakers require a sticky pad adapter kit for universal platforms (Order no. M1250-9504) or a dedicated sticky pad platform (see table at individual shakers).



Microplate racks for universal platforms are available in two formats: for stacks (three deep-well plates or nine standard plates) or single layers for aeration (five plates). In addition, universal lab shaker platforms are also compatible with microplate screening systems like the Duetz System.



Test tube racks for universal platforms come in 18 formats for 8–30 mm tube diameter. The side knobs let you quickly adjust the shaking angle or release the insert rack from the holder, for easy transport to the bench. Racks come with a tube height-support, are made of stainless steel. Plastic inserts help to retain tubes and prevent them from spinning in the rack.



> Find the right accessory for your vessel format and application Shaker Accessory Guide www.eppendorf.com/shaker-accessory-guide

Smart Cultivation with Innova® & VisioNize®



Stay connected to critical information about the Innova S44i even when you are not in the lab with remote monitoring and notifications enabled by VisioNize. Pre-installed, customer-programmed tasks and alarms can be easily set directly at the VisioNize touch interface.

Establish specific cell-conserving user habits in your lab and relieve the burdens of daily routines.

Easy and Comprehensive Documentation

The demands in cell culture labs have increased and became more complex. This is especially true for process standardization and documentation, e.g. to increase reproducibility of results and prove constant growth conditions in audits and publications. Monitor your biological shakers from anywhere with VisioNize Lab Suite and track device parameters, such as temperature, speed as well as remaining program runtime. You can track back with only one click what happened during cultivation with VisioNize Lab Suite.

Standard and Customized Tasks

Pre-installed and customer-programmed tasks can be set with the VisioNize touch interface to remind you of regular tasks, e.g. cleaning, refilling the water reservoir, or performance checks with external sensors.

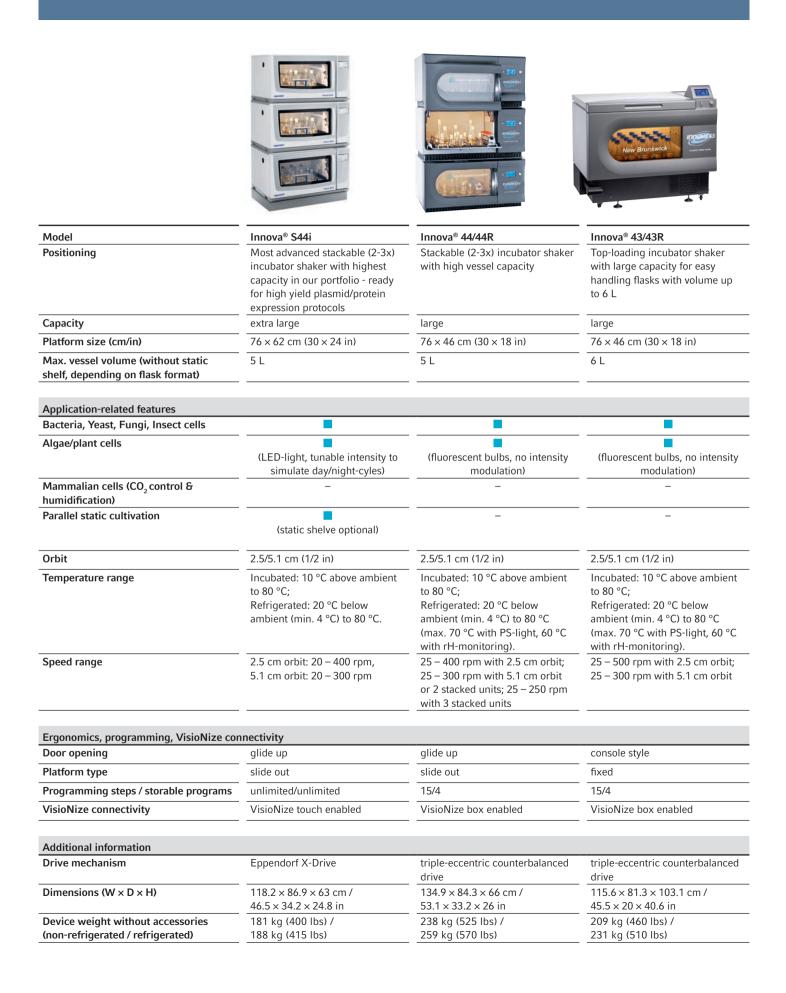
Be Confident About Your Growth in Motion

Define critical values e.g. door-opening time or orbital speed that trigger a highly visible on screen and audible alarm. In addition, you can receive SMS or e-mail notifications by VisioNize Lab Suite. This way, you can ensure a stable environment for your cultured cells and establish cell-conserving user habits in your lab.



Learn more at: www.eppendorf.com/VisioNize

Incubator Shakers









Innova® 42/42R Innova® 40/40R New Brunswick S41i Space-saving, stackable (2x) incubator Benchtop orbital shaker with compact Large (170 L) CO₂ incubator shaker shaker with high versatility regarding design and capacity for flasks with a with integrated high temperature lab positioning and options volume up to 3 L disinfection and shaker inside medium medium medium 46 × 46 cm (18 × 18 in) 46 × 46 cm (18 × 18 in) 36×61 cm (14 \times 24 in) 3 L 4 L 6 L (fluorescent bulbs, no intensity modulation) (one static shelve included, culture (one static shelve included, second drawer for Agar plates optional) shelve optional) 1.9/2.5 cm (0.75/1 in) 1.9/2.5 cm (0.75/1 in) 2.5 cm (1 in) Incubated: 10 °C above ambient to Incubated: 10 °C above ambient to Ambient +4 °C to 50 °C 80 °C; 80 °C; Refrigerated: 20 °C below ambient Refrigerated: 15 °C below ambient (min. 4 °C) to 80 °C (max. 70 °C with (min. 4 °C) to 80 °C. PS-light, 60 °C with rH-monitoring). 25 – 400 rpm; 25 – 300 rpm when 50 – 400 rpm 25 – 400 rpm using flasks > 500 mL in stacked (25 - 250 rpm if stacked) devices opening to front top opening hood opening to front fixed fixed fixed 15/4 15/4 VisioNize box enabled VisioNize box enabled VisioNize box enabled triple-eccentric counterbalanced drive triple-eccentric counterbalanced drive triple-eccentric counterbalanced drive 63.5 × 74.5 × 81.8 cm / 55.9 × 76.2 × 61 cm / 87.5 × 73 × 85 cm / 25 × 29.3 × 32.8 in $22 \times 30 \times 24$ in $34.4\times28.7\times33.5$ in 98 kg (217 lbs) / 60 kg (133 lbs) / 154 kg (340 lbs) 121 kg (266 lbs) 79 kg (175 lbs)

Universal Platforms for Incubated Shakers

Universal	Platforms	and	Clamps	for	Incubated	Shakers
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	Innova [®] S44i	Innova [®] 44/44R	Innova [®] 43/43R	Innova [®] 42/42R
Order no. universal platform	S44I040001	M1282-9904	M1250-9920	M1250-9902
	Clamps	Clamps	Clamps	Clamps
10 mL Erlenmeyer flasks	238	187	183	109
25 mL Erlenmeyer flasks	238	96	92	64
50 mL Erlenmeyer flasks	130	96	92	45
125 mL Erlenmeyer flasks	81	39	39	24
250 mL Erlenmeyer flasks	48	31	30	19
500 mL Erlenmeyer flasks	36	24	24	14
1 L Erlenmeyer flasks	20	14	12	8
2 L Erlenmeyer flasks*	141)	11	11	6
3 L Erlenmeyer flasks	9 ¹⁾	6	6	4
4 L Erlenmeyer flasks	81)	6	6	4
5 L Erlenmeyer flasks	6 ¹⁾	6 ²⁾	6 ²⁾	4 ³⁾
6 L Erlenmeyer flasks			42)	2 ³⁾
2 L Lauber Thomson*	13	11	11	6
2.8 L Fernbach flasks	8	6	6	4
500 mL media bottle flasks	30	24	24	14
1 L media bottle flasks	20	13	13	8
Microplate rack, single layer	4	4	4	2
Microplate rack, stack	20	16	16	8
Test tube rack, small, 30 × 8 × 12.9 cm	12	9	9	5
Test tube rack, medium, $36 \times 8 \times 12.9$ cm	10	8	8	4
Test tube rack, large, 45 × 8 × 12.9 cm	7	6	6	4
Platform size (cm/in)	76 × 62 cm	76 × 46 cm	76 × 46 cm	46 × 46 cm
	(30 × 24 in)	(30 × 18 in)	(30 × 18 in)	(18 × 18 in)

* Note to 2 L clamps: ACE-2000S fits 2 L wide neck Erlenmeyer flasks (DIN-ISO 24450), max. bottom diameter ~158 mm. For 2 L narrow neck Erlenmeyer (DIN-ISO 1773), Thomson, or Corning flasks with max. bottom diameter of 166 mm refer to clamp M1190-9005 (Clamp, for 2 L Thompson flasks).

¹⁰ S44:: Maximum flask capacity limited to 1 L with installed shelf (removable), distance platform to ceiling ~43.7 cm, platform to shelf ~27 cm, platform to photosynthetic light bank ~40.6 cm.²⁰ Innova 43/44: Maximum flask size limited to 4 L with installed photosynthetic light bank. I44: Distance platform to ceiling ~46 cm, platform to photosynthetic light bank ~40 cm. I43: Distance platform to ceiling ~48 cm.³⁰ Innova 42: 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.⁴⁰ New Brunswick S41i: Max. flask size with shelf in lower position limited to 250 mL Erlenmeyer or 500 mL Thomson Optimum Growth. Max. flask size with shelf in upper position limited to 1 L Erlenmeyer or 2.8 L Thomson Optimum Growth. Max. flask size without shelves 3 L and 5 L Corning and 5 L Thomson Optimum Growth. No fit of standard 5 L Erlenmeyer flasks (nn/wn). Platform to ceiling: ~40 cm, platform to lower shelf: ~18.5 cm, platform to upper shelf ~27.5 cm

Dedicated Platforms and Clamps for Incubated Shakers

Clamps	Order no.				
	01401110.	Clamps	Order no.	Clamps	Order no.
86	S44I040002	60	M1282-9905	60	M1191-9909
53	S44I040003	40	M1282-9906	40	M1191-9910
39	S44I040004	24	M1282-9907	24	M1191-9911
23	S441040005	15	M1282-9908	15	AG-1
15	S441040006	12	M1282-9909	12	AG-2
15	S44I040010				
	Not required ¹⁾		M1282-9913		M1250-9904
76 × 62 cm	(30 × 24 in)	76 × 46 cm	(30 × 18 in)	76 × 46 cm	(30 × 18 in)
	53 39 23 15 15 76 × 62 cm			53 S441040003 40 M1282-9906 39 S441040004 24 M1282-9907 23 S441040005 15 M1282-9908 15 S441040006 12 M1282-9909 15 S441040010 Not required ¹¹ M1282-9913 76 × 62 cm (30 × 24 in) 76 × 46 cm (30 × 18 in)	53 S441040003 40 M1282-9906 40 39 S441040004 24 M1282-9907 24 23 S441040005 15 M1282-9908 15 15 S441040006 12 M1282-9909 12 15 S441040010

* Note to 2 L clamps: For 2 L wide neck Erlenmeyer flasks (DIN-ISO 24450), max. bottom diameter ~158 mm refer to 2 L Erlenmeyer flask platforms. For 2 L narrow neck Erlenmeyer (DIN-ISO 1773), Thomson, or Corning flasks with max. bottom diameter of 166 mm refer to 2 L Lauber Thomson platforms.

 ** Sticky pads to be ordered separately see page 26

¹⁾ The universal platform of the Innova S44i and the New Brunswick S41 are designed to be compatible with sticky pads directly.

Lab Shaker Clamps

Innova [®] 40/40R	New Brunswick S41i	Clamps	Clamps
M1250-9902	M1334-9920		
Clamps	Clamps	Dimensions (W × H)	Order no.
109	110	31 × 26 mm	ACE-10S
64	60	23 × 22 mm	M1190-9004
45	60	51 × 26 mm	M1190-9000
24	23	68 × 37 mm	M1190-9001
19	18	91 × 47 mm	M1190-9002
14	154)	102 × 48 mm	M1190-9003
8	104)	130 × 64 mm	ACE-1000S
6	64)	158 × 72 mm	ACE-2000S
4	34)	189 × 112 mm	ACE-3000S
	34)	210 × 99 mm	ACE-4000S
	34)	222 × 145 mm	ACE-5000S
		244 × 100 mm	ACE-6000S
6	6 ⁴⁾	165 × 112 mm	M1190-9005
4	34)	203 × 73 mm	ACFE-2800S
14	154)	92 × 108 mm	ACSB-500S
8	84)	108 × 150 mm	ACSB-1000S
2			TTR-221
8		_	M1289-0700
5	6		see page 26
4	3		see page 26
4	3		see page 26
46 × 46 cm (18 × 18 in)	46 × 46 cm (18 × 18 in)		

Innova® 42/4	42R	Innova [®] 40/4	40R	New Brunsv	vick S41i	Clamps
Clamps	Order no.	Clamps	Order no.	Clamps	Order no.	Dimensions (W × H)
34	M1194-9904	34	M1194-9904	32	M1334-9921	68 × 37 mm
25	M1194-9905	25	M1194-9905	24	M1334-9922	91 × 47 mm
16	M1194-9906	16	M1194-9906	15	M1334-9923	102 × 48 mm
9	M1194-9907	9	M1194-9907	11	M1334-9924	130 × 64 mm
5	M1194-9908	5	M1194-9908	6	M1334-9925	158 × 72 mm
						165 × 112 mm
	M1250-9903		M1250-9903		Not required ¹⁾	
46 × 46 cm (18 × 18 in)	46 × 46 cm (18 × 18 in)	36 × 61 cm (14 × 24 in)	

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



Innova[®] S44i

Tight temperature, speed and balance control: Speed increment control of \pm 0.1 rpm and accuracy of ± 0.5 rpm, temperature accuracy ± 0.1 °C (at 37 °C), automatic imbalance detection and semi-automatic counterweight adjustment to optimize run

Stackable up to three units: Making space for increased capacity

Compatible with complementary systems: For example, microplatescreening systems like the Duetz-system or in-flask monitoring systems like CGQ (Aquila Biolabs) or SFR Shake Flask Reader (PreSens)

Shake more, shake faster, shake easier

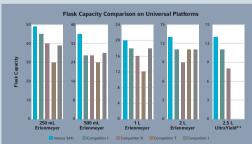
Are you looking for a stackable incubator shaker for particularly high protein expression or plasmid yields in bacteria or yeast to quickly reach your ambitious targets? The latest and most advanced incubator shaker from Eppendorf, the Innova S44i, can fit up to twice as many flasks as other shakers in the market and is ready to reliably support current high-yield expression protocols at high speeds, 24/7.

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Innova S44i

Innova S44i



Shake more: The platform, drive, and chamber of the Innova S44i are optimized for high vessel capacity and high liquid load. For example, you can fit up to 13/15x 2.5L Thomson Ultra Yield® flasks or 36/39x 500 mL Erlenmeyer flasks on a universal/dedicated platform.

26.6°C Danice Day 37.0°C tic Light fur 50 rpm 8 龠 ۲ Q

Everything at a glance: All setpoints and current values are visible, performance data can be downloaded easily via a front USBport.

True control with touch interface: All setpoints and current values are visible at a glance; restrict access to change settings with the user management

Programming flexibility: Multistep or cyclic programming of temperature or speed rampings; unlimited program storage; programmable LED intensity (optional)

Easy documentation and tracking: Data and event log (tracking of alarms, temperature, rpm, door openings etc.) accessible via USB/user interface or VisioNize Lab Suite





Ordering information

Description	Order no.
Innova® S44i, non-refrigerated, stackable up to 3-fold, orbit 2.5 cm (1 in)	see online*
Innova [®] S44i, refrigerated, stackable up to 3-fold, orbit 2.5 cm (1 in)	see online*
Innova® S44i, refrigerated, stackable up to 3-fold, orbit 2.5 cm (1 in), photosynthetic LED light bank	see online*
Innova [®] S44i, non-refrigerated, stackable up to 3-fold, orbit 5.1 cm (2 in)	see online*
Innova® S44i, refrigerated, stackable up to 3-fold, orbit 5.1 cm (2 in)	see online*
Innova® S44i, refrigerated, stackable up to 3-fold, orbit 5.1 cm (2 in), photosynthetic LED light bank	see online*
Positioning base, 10.16 cm (4 in), Innova® S44i	S44I041001
Positioning base, 30.48 cm (12 in), Innova® S44i	S44I041002
Stacking kit, for double stack of Innova® S44i	S44I041005
Stacking kit, for Innova® S44i to Innova® 44/44R	S44I041006
Stacking kit, for triple stack Innova® S44i	S44I041003
Static incubation shelf, Innova® S44i	S44I042001
Darkening window shade, removable, Innova® S44i	S44I042002
Universal platform for Innova® S44i , 76 \times 62 cm (30 \times 24 in), compatible with sticky pads: 9 necessary to cover platform (sold separately, order no: M1250-9700, cutting required), anodized aluminum	S44I040001
125 mL Erlenmeyer flask dedicated platform, 86 clamps	S441040002
250 mL Erlenmeyer flask dedicated platform, 53 clamps	S441040003
500 mL Erlenmeyer flask dedicated platform, 39 clamps	S44I040004
2 L Lauber Thomson flask dedicated platform , 15 clamps, aluminum, for 2 L narrow neck Erlenmeyer, Thomson, or Corning flasks (DIN-ISO 1773) bottom diameter ~166 mm	S44I040010
1 L Erlenmeyer flask dedicated platform, 23 clamps	S441040005
2 L Erlenmeyer flask dedicated platform , 15 clamps, aluminum, for 2 L wide neck Erlenmeyer flasks (DIN-ISO 24450), bottom diameter ~153 mm	S441040006
VisioNize® Lab Suite, remote parameter and status monitoring, alarm notifications via email or SMS, response-based alarm escalation + more. Check availability in your country – sign up and connect 3 devices for free.	Sign up online
To find the correct order number for your country, please check <u>www.eppendorf.com/shakers</u> or contact your local sale	es representativ

Looking for *Service Agreements* including annual full preventive maintenance or IQ/OQ GxP qualification services? <u>See page 7</u>



Built to perform and last – the patented Eppendorf X-Drive: With it's five eccentric mounting points for the shaker platform, the drive is precisely engineered to ensure long-lasting, repeatable performance with high loads over years. The four shafts in the corners and Balance Master Technology support precise vibration-free shaking on every point of the platform, including the periphery.



Don't compromise: Stack up to three devices without reducing orbit specific maximum shaking speed



Easy door and platform handling: The space-saving door provides easy service and access to samples. The slide-out platform can be operated with one hand.



Easily update your lab: Just stack your new Innova S44i on top of your existing Innova 44/44R incubator shaker. Expand your shaking capacity and application potential without expanding the footprint.

Innova® 44/44R

Tight temperature, speed and balance

control: Temperature accuracy and uniformity: ± 0.1 °C and ± 0.25 °C, alarm at ± 0.5 °C deviation; speed control: ± 0.1 rpm and alarm at ± 5 rpm deviation; automatic imbalance detection No separate cooling unit necessary: Every refrigerated device comes with an integrated cooling unit - for more safety and reduced space requirements

Check your samples: Large, double-pane, insulated viewing window and an internal light provide a clear view of the chamber contents

Saves money: No

sufficient airflow

internal HEPA-filter

that must be replaced annually to ensure



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

Less noise in the lab: The heavy-duty Innova triple eccentric counterbalanced drive ensures quiet operation (< 65 dbA)

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.



Grow more in the same footprint: Innova 44 models are stackable up to three units for maximum space savings



Easy door and platform handling: The spacesaving door glides up and out of your way for easy access to all samples and easy service.



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

Description	Order no.
New Brunswick Innova® 44	
stackable up to 3-fold, orbit 2.5 cm (1 in)	see online*
stackable up to 3-fold, orbit 5.1 cm (2 in)	see online*
New Brunswick Innova® 44R	
refrigerated, stackable up to 3-fold, orbit 2.5 cm (1 in)	see online*
refrigerated, stackable up to 3-fold, orbit 5.1 cm (2 in)	see online*
Stacking kit, for stacking one additional 44 or 44R (3 × Innova® 44/44R can be placed in a single stack)	M1282-0500
Remote alarm option, for Innova® 44/44, Innova® 43/43, Innova® 42/42 or Innova® 40/40	M1320-8029
Universal platform for Innova [®] 44/44R, 76 × 46 cm (30 × 18 in), not interchangeable with other 76 × 46 cm platforms	M1282-9904
Aluminum platform for Innova [®] 44/44R, 76 \times 46 cm (30 \times 18 in), not interchangeable with other 76 \times 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
2 L Erlenmeyer flask dedicated platform for Innova® 44 , 76 × 46 cm (30 × 18 in), 12 clamps, aluminum, for 2 L wide neck	M1282-9909
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	
Sticky pad platform for Innova [®] 44(R), 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

Heavy duty 0.95 cm-thick aluminum plate platform for Innova[®] 44/44R only, 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
Positioning bases, 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
12-port gassing manifold, for Innova® 44R - contact Eppendorf for installation options	M1282-0291
Humidity monitor, for Innova® 44R - contact Eppendorf for installation options	M1282-5011
UV germicidal light, for Innova® 44R - contact Eppendorf for installation options	M1282-9921
Photosynthetic light bank, for Innova® 44R - contact Eppendorf for installation options	M1282-9922
VisioNize® Lab Suite (VisioNize® box required), remote parameter and status monitoring, alarm notifications via email or	Sign up online

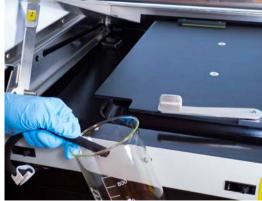
SMS, response-based alarm escalation + more. Check availability in your country - sign up and connect 3 devices for free.

*To find the correct order number for your country, please check <u>www.eppendorf.com/shakers</u> or contact your local sales representative.

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Built to last: The Innova triple eccentric counterbalanced drive with three weight-supporting shafts provides vibration and trouble-free operation with high loads for years. It is not to be confused with so called "triple counterbalanced" drives that usually come with only one weight support.



Spill protected and easy to clean: The Innova tripleeccentric 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.

Innova® 43/43R

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

Reliable 24/7 with high loads: Proven and tested Innova triple eccentric counterbalanced drive (three weightsupporting shafts) provides vibration and trouble-free operation for years

Keep your hands free for flasks: Foot pedal release makes it easy to open and close the lid



Check your samples: Large, double-pane, insulated viewing window and an internal light provide a clear view of the chamber contents

Large capacity for flasks up to 6 L: for example, up to 12x 1L or 24x 500mL Erlenmeyer flasks on universal platform (see capacities on next page and page 13)

Easy service and relocation: Integrated wheels

Console incubator shaker for flasks up to 6 liters

The Innova 43 and Innova 43R console incubator shakers provide years of dependable operation. A pedal operated lid means you don't have to worry about how you'll open the shaker with your hands full. Once your samples are in the shaker, you can keep an eye on them thanks to the viewing window in the sidewall. Innova 43 incubator shakers and Innova 43R with added refrigeration are the perfect choice for handling large quantities or large volumes of culture in vessels up to 6 L in volume, and come with a controller to program and automate parameter changes on the basis of time.



Ergonomic design: The easy-open lid, assisted by a foot pedal release supports smooth and safe handling even of large flasks.



Easy interface handling and programming: The top-mounted controls and display make it easy to view, set and program parameters - continuous, timed, or multi-step programs with up to 15 steps (four programs storable).

Ordering information	
Description	Order no.
New Brunswick Innova® 43	
non-stackable, orbit 2.5 cm (1 in)	see online*
non-stackable, orbit 5.1 cm (2 in)	see online*
New Brunswick Innova® 43R	
refrigerated, non-stackable, orbit 2.5 cm (1 in)	see online*
refrigerated, non-stackable, orbit 5.1 cm (2 in)	see online*
Remote alarm option, for Innova® 44/44, Innova® 43/43, Innova® 42/42 or Innova® 40/40	M1320-8029
Platforms for Innova® 2300/43/43R, Excella® E10/E25/E25R, 76 × 46 cm (30 × 18 in), aluminum, Universal platform	M1250-9920
Platform for Innova® 2300/43/43R, Excella® E10/E25/E25R, 76 × 46 cm (30 × 18 in), aluminum	
125 mL Erlenmeyer flask dedicated platform	M1191-9909
250 mL Erlenmeyer flask dedicated platform	M1191-9910
500 mL Erlenmeyer flask dedicated platform	M1191-9911
1 L Erlenmeyer flask dedicated platform	AG-1
2 L Erlenmeyer flask dedicated platform, for 2 L wide neck Erlenmeyer flasks (DIN-ISO 24450), bottom diameter ~153 mm.	AG-2
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.	
Sticky pad platform for Innova® 43(R)/2300, 76 × 46 cm (30 × 18 in), 7 sticky pads necessary to cover platform (sold separately, order no: M1250-9700, cutting required), anodized aluminum	M1250-9904
Utility tray with non-skid rubber surface for Innova® 2300, usable as a stand-alone – no other platform required	AG-00
12-port gassing manifold, permits direct gassing into flasks	M1320-0500
Humidity monitor, for use with spill pan as water reservoir, for Innova® 43/43R	M1320-0600
UV germicidal light, in the airflow path outside the chamber reduces the bio-burden of circulated air, Innova® 43R only	M1320-0400
Photosynthetic light bank, for Innova® 43R only	M1320-0300
VisioNize® Lab Suite (VisioNize® box required), remote parameter and status monitoring, alarm notifications via email or	Sign up online
SMS, response-based alarm escalation + more. Check availability in your country - sign up and connect 3 devices for free.	

*To find the correct order number for your country, please check <u>www.eppendorf.com/shakers</u> or contact your local sales representative.

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Flexibility for various vessel formats: The Innova 43/43R accommodates flasks up to 6 L. A sticky pad platform is available for low-speed shaking (200 – 250 rpm, depending on orbit) of flat bottom vessels.



Spill protected and easy to clean: The drive is protected by a covering spill diverter underneath the shaker platform. It guides liquids to the drainable spill pan underneath. The spill pan can also be used as water reservoir to reduced medium evaporation – humidity monitoring is optional.

Innova[®] 42/42R

Check your samples: Large, double-pane, insulated viewing window and an internal light provide a clear view of the chamber contents

Reliable 24/7 with high loads: Proven and tested Innova triple eccentric counterbalanced drive (three weight-supporting shafts) provides vibration and trouble-free operation for years



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 (see capacities on next page and page 13)

Stackable, incubated, refrigerated shaker with 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.



Lab position flexibility: and small footprint The Innova 42/42R can be positioned on or under the bench – 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 shelf above the shaker platform is included, additional shelves are available.



Sample desiccation and medium evaporation protection: The optional culture drawer can be used to protect Agar plates from desiccation. A built-in spill pan and optional humidity monitoring.

escription	Order no.
ew Brunswick Innova® 42	
ackable up to 2-fold, orbit 1.9 cm (0.75 in)	see online*
ackable up to 2-fold, orbit 2.5 cm (1 in)	see online*
lew Brunswick Innova® 42R	
efrigerated, stackable up to 2-fold, orbit 1.9 cm (0.75 in)	see online*
efrigerated, stackable up to 2-fold, orbit 2.5 cm (1 in)	see online*
tacking kit, for stacking Innova® 42/42R units	M1335-0800
tacking kit, for stacking Innova® 4200/4230 units on top of Innova® 42/42R shakers	M1335-0810
emote alarm option, for Innova® 44/44, Innova® 43/43, Innova® 42/42 or Innova® 40/40	M1320-8029
dditional perforated shelf and brackets, for Innova® 42/42R	M1335-0080
latforms for Innova® 2100/40/40R/42/42R, Excella® E24/E24R, 46 × 46 cm (18 × 18 in), phenolic resin (unless otherwise state	d)
niversal platform, aluminum	M1250-9902
25 mL Erlenmeyer flask dedicated platform	M1194-9904
50 mL Erlenmeyer flask dedicated platform	M1194-9905
00 mL Erlenmeyer flask dedicated platform	M1194-9906
L Erlenmeyer flask dedicated platform	M1194-9907
L Erlenmeyer flask dedicated platform, for 2 L wide neck Erlenmeyer flasks (DIN-ISO 24450), bottom diameter ~153 mm. or 2 L narrow neck Erlenmeyer, Thomson, or Corning flasks (DIN-ISO 1773) bottom diameter ~166 mm refer to universal	M1194-9908
latform and clamps M1190-9004.	14050 0000
ticky pad platform for Innova® 40(R)/42(R)/2100, Excella® E24(R), 46 × 46 cm (18 × 18 in), 4 sticky pads necessary to cover latform (sold separately, order no: M1250-9700), anodized aluminum	M1250-9903
uick-change platform kit, enables platform attachment without tools, for Innova® 2100/4000/4080/4230	M1192-9901
ulture drawer, (height adjustable) prevents plates from drying	M1335-0501
tility carrier, holds racks and vessels between x2 rubber-cushioned cross bars, for Innova® 2100/Innova® 40 /Innova® 42/ xcella® 24	M1194-9909
od kit, for utility carrier (one additional rod), of Innova 40/42/2100 and Excella 24 lab shakers	M1194-9923
tility tray with non-skid rubber surface for Innova® 2100, 40, 42, usable as a stand-alone – no other platform required	M1194-9910
rip pan, to catch accidental spills, for universal platform M1250-9902	M1250-9906
hotosynthetic light bank, programmable, Innova® 42R only - contact Eppendorf for installation options	M1335-0300
V germicidal light, programmable, Innova [®] 42R only - contact Eppendorf for installation options	M1335-0400
umidity monitor, for Innova® 42/42R - contact Eppendorf for installation options	M1335-0500
2-port gassing manifold, for Innova® 42/42R - contact Eppendorf for installation options	M1335-0600
	Sign up onlin

*To find the correct order number for your country, please check <u>www.eppendorf.com/shakers</u> or contact your local sales representative.

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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.

Innova® 40/40R

Tight temperature and speed control: Temperature accuracy and uniformity: ± 0.1 °C and ± 0.25 °C (at 37 °C), speed accuracy 1 rpm

Easy to move on the bench: 60 / 79g weight (incubated/refrigerated version)



Check your samples: Large, insulated viewing provides a clear view of the chamber contents

Easy interface handling and programming: The controls and display make it easy to view, set and program parameters - continuous, timed, or multi-step programs with up to 15 steps (four programs storable).

Compact and convenient benchtop model for flasks up to 3 liters

The Innova 40 and Innova 40R incubator and refrigerated small-scale benchtop shakers are great for small scale projects, or for those looking to start small and grow. The samples are in clear view at all times and there are options for a drip pan. The user interface mirrors the benefits of the larger units and comes as standard with multi-parameter programmable steps. The drive unit is the proven and tested triple-eccentric counterbalanced drive – dependable as always. With this being the smallest benchtop incubator shaker we provide, this is the ideal starting point – with a view to grow.



Reliable 24/7 with high loads: The heavy-duty Innova triple eccentric counterbalanced drive (three weight-supporting shafts, solid state brushless DC motor) provides vibration and trouble-free operation for years.



Flexibility for various vessel formats: The Innova 40/40R accommodates flasks up to 3L. A sticky pad platform is available for low-speed shaking (200 – 250 rpm, depending on orbit) of flat bottom vessels.

Ordering information	Order no.				
Description					
New Brunswick Innova® 40					
non-stackable, orbit 1.9 cm (0.75 in)					
non-stackable, orbit 2.5 cm (1 in)					
New Brunswick Innova® 40R					
refrigerated, non-stackable, orbit 1.9 cm (0.75 in)					
refrigerated, non-stackable, orbit 2.5 cm (1 in)					
Remote alarm option, for Innova® 44/44, Innova® 43/43, Innova® 42/42 or Innova® 40/40					
Platforms for Innova® 2100/40/40R/42/42R, Excella® E24/E24R, 46 × 46 cm (18 × 18 in), phenolic resin (unless otherwise state	ed)				
Universal platform, aluminum	M1250-9902				
125 mL Erlenmeyer flask dedicated platform	M1194-9904				
250 mL Erlenmeyer flask dedicated platform					
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.	M1194-9908				
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.					
Sticky pad platform for Innova [®] 40(R)/42(R)/2100, Excella [®] E24(R), 46 × 46 cm (18 × 18 in), 4 sticky pads necessary to cover platform (sold separately, order no: M1250-9700), anodized aluminum	M1250-9903				
Quick-change platform kit, enables platform attachment without tools, for Innova® 2100/4000/4080/4230	M1192-9901				
Utility carrier, holds racks and vessels between x2 rubber-cushioned cross bars, for Innova® 2100/Innova® 40 /Innova® 42/ Excella® 24	M1194-9909				
Rod kit, for utility carrier (one additional rod), of Innova 40/42/2100 and Excella 24 lab shakers	M1194-9923				
Utility tray with non-skid rubber surface for Innova [®] 2100, 40, 42, usable as a stand-alone – no other platform required	M1194-9910				
Drip pan, to catch accidental spills, for universal platform M1250-9902	M1250-9906				
VisioNize [®] Lab Suite (VisioNize [®] box required), remote parameter and status monitoring, alarm notifications via email or	Sign up online				
SMS, response-based alarm escalation + more. Check availability in your country – sign up and connect 3 devices for free.					
To find the correct order number for your country, places sheek your encoderf com/shekers or contact your local color	ranzagantativa				

*To find the correct order number for your country, please check <u>www.eppendorf.com/shakers</u> or contact your local sales representative.

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Optional drip pan: Protects the shaker drive below by collecting spills from the overlying universal platform



Optional utility carrier: Stand-alone platform that quickly fixates vessels between adjustable cushioned rods (no universal platform required, extra rod available)

New Brunswick S41i

Two in one: Shaker platform for suspension cultures plus up to two shelves (one included) for simultaneous static cultivation

Tight CO₂ specifications for reproducible results: Range (control step size): 0.2-20 % (0.1 %), accuracy: ± 0.2 % (at 5 % CO₂), homogeneity: ± 0.1 %

Reliable process planning:

Proven and tested Innova triple eccentric counterbalanced drive (three weightsupporting shafts) provides vibration and trouble-free operation for years

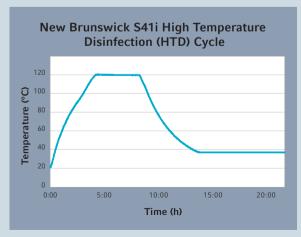


Less noise in the lab: One of the quietest CO₂ incubator shakers on the market – with the Innova triple eccentric counterbalanced drive

Protect your light-sensitive expression media: The double door system also helps protect the atmosphere inside and reduce CO₂ consumption

Large, stackable CO₂ incubator shaker for shaking and simultaneous static incubation

Are contamination and the resulting sample losses or delays in your processes unacceptable? How much time do you want to invest in regular, thorough cleaning? The fanless New Brunswick S41i comes with solutions to these challenges to protect your lab's high productivity. For example, it is the only CO2 incubator shaker that offers a 120 °C disinfection for reliable decontamination and a fast, safe set-up of your device for the next project.



Peace of mind: The integrated 120 °C disinfection is started by push of a button and ensures a fast and reliable set-up your device for the next project.



Wiped quickly and reliably: The deep-drawn chamber with rounded corners, the smooth, seamless surface the removable single-piece water trays make it easy to clean



Ideal for limited Iab space: Compact design fits under the bench or stacked in a small footprint

Ordering information				
Description	Order no.			
New Brunswick S41i, 170 L, CO2 incubator shaker with inner shelf and touch screen control, 1 shelf included (optional	see online*			
additional shelf available), orbit 2.5 cm (1 in)				
Interchangeable platform for New Brunswick S41i, 36 × 61 cm (14 × 24 in)				
Universal platform	M1334-9920			
125 mL Erlenmeyer flask dedicated platform, comes complete with 32 clamps installed	M1334-9921			
250 mL Erlenmeyer flask dedicated platform, comes complete with 24 clamps installed	M1334-9922			
500 mL Erlenmeyer flask dedicated platform, comes complete with 15 clamps installed	M1334-9923			
1 L Erlenmeyer flask dedicated platform, comes complete with 11 clamps installed	M1334-9924			
2 L Erlenmeyer flask dedicated platform, comes complete with 6 clamps installed	M1334-9925			
Stacking kit, allows up to 2 each New Brunswick S41i shakers to be stacked one on top of the other	P0628-6502			
Additional shelf for New Brunswick S41i, perforated, can easily be added to the New Brunswick S41i for static cell culture of adherent cells	P0628-6181			
Sticky pad adapter kit, 2 anodized aluminum sheets, each 15.2 × 45.7 cm (6 × 18 in)	M1250-9504			
Sticky pad, 20 × 20 cm (8 × 8 in)	M1250-9700			
VisioNize [®] Lab Suite (VisioNize [®] box required), remote parameter and status monitoring, alarm notifications via email or				
SMS, response-based alarm escalation + more. Check availability in your country – sign up and connect 3 devices for free.				

*To find the correct order number for your country, please check <u>www.eppendorf.com/shakers</u> or contact your local sales representative.

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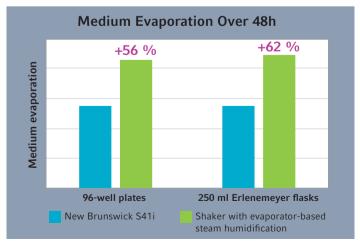


Removable shelf: enables shaking of suspension cell cultures while incubating adherent cells under the same conditions

Comparison of CO₂ Consumption



Save money, change gas cylinders less frequently, and support corporate sustainability goals: Significantly reduced CO₂ consumption



Effective medium evaporation protection: 95 % relative humidity at 37 °C is ensured by the 3D six-sided direct heating technology and the water tray-based humidification system applied in Eppendorf CO_2 incubators. Data shows the effectiveness compared to evaporatorbased steam humidification

Shakers Accessories

Flask Clamp and Accessory Ordering Information

Description	Order no.
Clamps	
10 mL Erlenmeyer Clamp	ACE-10S
25 mL Erlenmeyer Clamp	M1190-9004
50 mL Erlenmeyer Clamp with spring retainer	M1190-9000
125 mL Erlenmeyer Clamp with spring retainer	M1190-9001
250 mL Erlenmeyer Clamp with spring retainer	M1190-9002
500 mL Erlenmeyer Clamp with spring retainer	M1190-9003
1 L Erlenmeyer Clamp with spring retainer	ACE-1000S
2 L Erlenmeyer Clamp with spring retainer	ACE-2000S
500 mL Media Bottle Clamp with spring retainer	ACSB-500S
1 L Media Bottle Clamp with spring retainer	ACSB-1000S
2.8 L Fernbach Flask Clamp with spring retainer	ACFE-2800S
3 L Erlenmeyer Clamp with spring retainer	ACE-3000S
4 L Erlenmeyer Clamp with spring retainer	ACE-4000S
5 L Erlenmeyer Clamp with spring retainer	ACE-5000S
6 L Erlenmeyer Clamp with spring retainer	ACE-6000S
Angled Test Tube Rack Holder, for user-supplied test tube racks and microplates	TTR-210
Spacer Bar for TTR-210	TTR-215
Microplate rack, for single layer of five plates	TTR-221
Microplate rack, stack three deepwell or nine standard plates	M1289-0700
Sticky Pad Adapter Kit	M1250-9504
Sticky Tape , 2,300 × 3.8 cm (75 ft × 1.5 in) roll	M1250-9600
Sticky Pad, 20 × 20 cm (8 × 8 in)	M1250-9700
Drip pan, for universal platform M1250-9902	M1250-9906
Drip pan, to catch accidental spills, for use with universal platform M1250-9920	M1250-9921

Test Tube Racks Ordering Information

Large Racks			Medium Racks			Small Racks		
Order no.	Diameter	Tubes/Rack	Order no.	Diameter	Tubes/Rack	Order no.	Diameter	Tubes/Rack
M1289-0100	8 - 11 mm	80	M1289-0010	8 - 11 mm	60	M1289-0001	8 - 11 mm	48
M1289-0200	12 - 15 mm	60	M1289-0020	12 - 15 mm	44	M1289-0002	12 - 15 mm	34
M1289-0300	15 - 18 mm	42	M1289-0030	15 - 18 mm	31	M1289-0003	15 - 18 mm	24
M1289-0400	18 - 21 mm	30	M1289-0040	18 - 21 mm	23	M1289-0004	18 - 21 mm	18
M1289-0500	22 - 26 mm	22	M1289-0050	22 - 26 mm	16	M1289-0005	22 - 26 mm	13
M1289-0600	26 - 30 mm	20	M1289-0060	26 - 30 mm	16	M1289-0006	26 - 30 mm	12

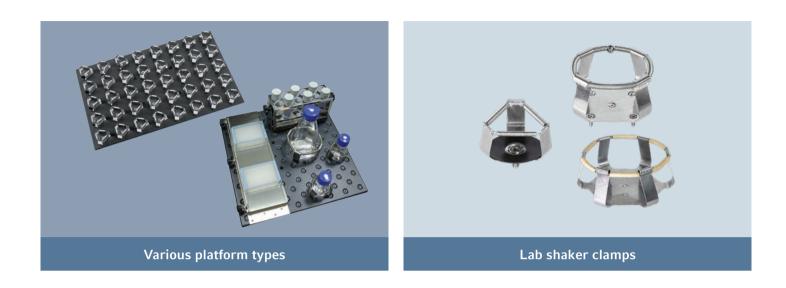
8 - 11 mm: fits e.g. Eppendorf tubes 1.5 mL, 15 - 18 mm: fits e.g. 15 mL Conicals, 26 - 30 mm: fits e.g. 50 mL Conicals

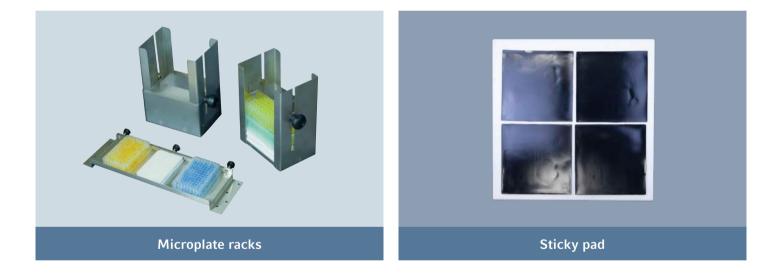
Find the right accessory for your vessel format and application, along with detailed specifications and information!

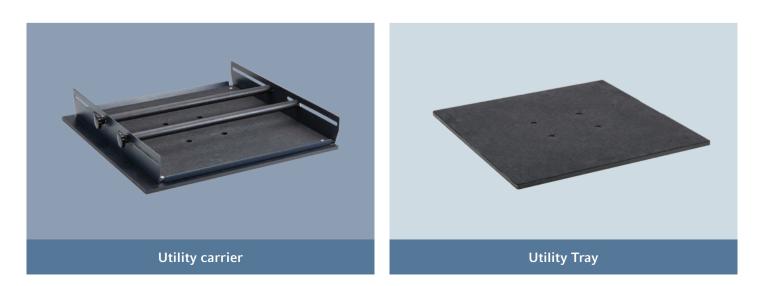
Eppendorf Shaker Accessory Guide www.eppendorf.com/shaker-accessory-guide











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To harvest your large batches, Eppendorf provides the matching sample separation solutions. Especially our high-speed centrifuges can help you to save handling time and efficiently handle volumes of 4x 1.5L or more.





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