

# Innova<sup>®</sup> 43 Incubator Shakers

Console incubator shaker for flasks up to 6 liters

The Innova 43 and 43R incubated console floor model shakers with the Eppendorf triple-eccentric counterbalanced drive provide years of dependable operation. The cast iron support and counter balanced drive is specifically designed to support high-speed applications and heavy workloads.

Innova 43 Incubator Shakers and Innova model 43R with added refrigeration are the perfect choice for handling large quantities or large volumes of cultures with precision and ease. These large-capacity floor-mounted laboratory shakers accept glassware up to 6 L, and come with a controller to program and automate parameter changes on the basis of time.

- > Console style shaker/incubator with triple-eccentric drive provides large capacity shaking for flasks up to 6 L
- > Programmable Innova controls automatically changes temperature, speed and optional photosynthetic and UV germicidal lights at timed intervals
- > Top mounted controls and display for easy, ergonomic viewing and setting
- > Foot pedal release with easy opening lid provides hands free operation
- > Large platform size provides increased flexibility with the number and size of cultures<sup>2</sup>

Top-mounted controls and display make it easy to view and set parameters



Ergonomic design; easy-open lid, assisted by a foot pedal release, provides hands-free operation



Large, triple-pane, insulated viewing window and internal light minimize the need to open the lid; rapid air circulation produces quick temperature equilibration and recovery



Wheels facilitate mobility



Utility basket accessory allows static incubation or refrigeration of test tubes and other samples; bracket (shown forefront) mounts to side of shaker

- > Multi-function reservoir, with built-in pluggable drain, humidifies chamber to reduce sample evaporation as well as capture accidental spills
- > Spill cover, above the drive, additionally protects electronics and mechanical components
- > Optional programmable, germicidal UV light in the airflow path outside the chamber reduces the bioburden of circulated air
- > Optional gassing manifold, humidity probe, programmable photosynthetic light bank and remote alarm contact are also available

#### Specifications, Innova® 43 / 43R\*

	43	43R
Temperature		
Range	5 °C above ambient to 80 °C	20 °C below ambient to 80 °C; min 4 °C
Range with optional humidity monitor	5 °C above ambient to 60 °C	20 °C below ambient to 60 °C; min 4 °C
Range with optional photosynthetic lights	5 °C above ambient to 70 °C	20 °C below ambient to 70 °C; min 4 °C
Control	± 0.1 °C	
Stability	± 0.1 °C at 37 °C	
Uniformity	± 0.25 °C	
Orbit	2.5 or 5.1 cm (1 or 2 in)	
Shaking speed <sup>1</sup>		
2.5 cm orbit	25 - 500 rpm, ± 1 rpm	
5.1 cm orbit	25 - 300 rpm, ± 1 rpm	
Dimensions		
Platform <sup>2</sup>	76 x 46 cm (30 x 18 in)	
Chamber	88.3 x 56.2 x 48.8 cm (34.8 x 22.3 x 19.3 in) – Height measured from top of platform	
Overall	115.6 x 81.3 x 103.1 cm (45.5 x 20 x 40.6 in)	
Net weight	202 kg (445 lb)	216 kg (475 lb)
Certifications	 	

\* Specifications subject to change without notice.

<sup>1</sup> Speed range based on shaking a typical workload. Baffled flasks can significantly reduce maximum speed.

<sup>2</sup> Shaker platforms sold separately - see page 22.

<sup>3</sup> Reduces maximum flask size on shaker to 4 liters.

#### Ordering information<sup>2</sup>

Order no.	Description
<b>Innova® 43 Incubated</b>	
M1320-0002	2.5 cm (1 in) Orbit, 230 V 50 Hz
M1320-0000	2.5 cm (1 in) Orbit, 120 V 60 Hz
M1320-0012	5.1 cm (2 in) Orbit, 230 V 50 Hz
M1320-0010	5.1 cm (2 in) Orbit, 120 V 60 Hz
<b>Innova® 43R Incubated/Refrigerated</b>	
M1320-0006	2.5 cm (1 in) Orbit, 230 V 50 Hz
M1320-0004	2.5 cm (1 in) Orbit, 120 V 60 Hz
M1320-0016	5.1 cm (2 in) Orbit, 230 V 50 Hz
M1320-0014	5.1 cm (2 in) Orbit, 120 V 60 Hz
<b>Options and accessories for Innova® 43 / 43R</b>	
M1320-0500	12-Port Gas Manifold for direct gassing into flasks, factory installed
M1320-0300	Programmable Photosynthetic Light Bank for Model 43R only, factory installed <sup>3</sup>
M1320-0400	Programmable UV Germicidal Lamp for Model 43R only, factory installed
M1320-0600	Humidity Monitor, factory installed
M1320-8029	Remote Alarm Contact, factory installed, for communication with user-supplied building monitoring system
M1320-0700	Utility Basket for incubating/refrigerating stationary glassware. 35.6 x 20.3 x 10.2 cm (14 x 8 x 4 in) W x H x D
M1291-1000	BioCommand® SFI Data-Logging Software, includes software and cable to connect one shaker