





Digital light duty orbital shakers you can trust for everyday shaking.

Endeavor[™] Light Duty Shakers are available in 3 models: 3 mm orbit, 20 mm orbit, or dedicated microplate model. All models can be used in incubators and cold rooms. Stable, accurate, long-term shaking is ensured with the triple eccentric drive and maintenance-free brushless DC motor. Integrated overload and unbalanced detection to protect samples.

Unique Features:

- Budget-friendly no need to buy a separate tray. Ready to attach a wide variety of accessories to customize for low to mid volume applications.
- Programmable save time and guarantee reproducible results. Simple on-board menu to set, store and recall multi-step programs.
- Data logging and control remote function permits PC control and data transfer.

ENDEAVOR[™]5000 Light Duty Orbital Shakers

Specifications

Model	e-E51LD0403	e-E51LDMP03	e-E51LD0420	
Control	Digital			
Motion	Orbital 3 mm		Orbital 20 mm	
Speed Range	100 to 800 rpm	100 to 1200 rpm*	50 to 300 rpm	
Speed Steps	1 rpm increments			
Speed Accuracy**	Above 100 rpm ± 2% of set speed, Below 100 rpm ± 2 rpm			
Timer	Up to 99 hours 59 minutes			
Tray Capacity	4,0 kg 4 × 500 ml flasks 6 × 250 ml flasks 6 × 125 ml flasks From 39 × 10 ml up to 3 × 1 l flasks***	4 microplates	4,0 kg 4 × 500 ml flasks 6 × 250 ml flasks 6 × 125 ml flasks From 39 × 10 ml up to 3 × 1 l flasks ^{***}	
Tray Size (L × W)	300 × 222 mm	280 × 197 mm	300 × 222 mm	
Tray Construction	Aluminum tray with 11 mounting points for accessories, non-slip rubber mat included	Aluminum tray with hardware to secure microplates and deepwell plates	Aluminum tray with 11 mounting points for accessories, non-slip rubber mat included	
Drive System	Brushless DC Motor, Triple Eccentric			
Communication	RS232			
Programming	On-board programming for 8 separate, 5-step programs			
Recall Feature	Retrieve last 5 recently used settings			
Protection	IP21			
Dimensions (L \times W \times H)	420 × 262 × 119 mm			
Net Weight	7,5 kg			
Working Environment****	-10 °C to 40 °C, 80% RH, non-condensing			
Power Input	24V DC, 1,25A			

*Microplates and deepwell plates are available with a variety of skirt styles. Depending on the skirt style the maximum speed may need to be reduced.

**Conditions permitting. Variations in measurement process, vessel(s), and sample(s) will impact actual performance.

***Universal Platform 30770938 required for expanded capacity from 39 \times 10 ml up to 3 \times 1 l flasks

*****Avoid cold starts. Unit is not designed to start after being in a cold room environment. Bring unit into cold room from a room temperature environment, operate and remove unit from cold room as soon as operation is complete.

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Accessories

Accessories for e-E51LD0403 and e-E51LD0420				
Item Number	Desccription	Standard Tray Max. per Shaker	Universal Platform 30770938 Max. per Shaker	
30400084	Flask Clamp, 10 ml	7	39	
30400085	Flask Clamp, 25 ml	7	24	
30400086	Flask Clamp, 50 ml	7	24	
30400087	Flask Clamp, 125 ml	6	12	
30400088	Flask Clamp, 250 ml	6	8	
30400089	Flask Clamp, 500 ml	4	6	
30400090	Flask Clamp, 1 l	-	3	
30400097	500 ml Media Bottle Clamp	4	6	
30400099	Flask Clamp PVC 125ml	6	12	
30400100	Flask Clamp PVC 250ml	6	8	
30400101	Flask Clamp PVC 500ml	-	4	
30400114	Micro Tube Rack	2	2	
30400115	Test Tube Rack 10-13 mm Diameter	2	2	
30400116	Test Tube Rack 14-16 mm Diameter	2	2	
30400117	Test Tube Rack 18-20 mm Diameter	2	2	
30400118	Test Tube Rack 22-25 mm Diameter	2	2	
30400119	Test Tube Rack For 15 ml Tubes	2	2	
30400120	Test Tube Rack For 50 ml Tubes	2	2	
30770938	Universal Platform 30 × 22 cm e-E51LD	1	_	
30400121	Adjustable Platform 22 30 cm, 2 bars	1	_	
30400122	Roller Bar, 22 cm (for adjustable platform only)	Variable	_	
30400124	Dimpled Mat, 22×30 cm	1	_	
30770935	Rubber Mat 29 × 22 cm	1	-	
30770939	Sticky Mat 22 × 18 cm	1	1	
30770940	Universal Harness e-E51LD	1	-	
Accessories for e-E51LDMP03				
Item Number	Desccription	Standard	Standard Tray Max. per Shaker	
30400114	Micro Tube Rack		2	
30772773	Deep Plate Kit, set of 4 1		1 (set of 4)	



Universal Platform 30 × 22 cm e-E51LD Part Number: 30770938



Adjustable Platform 22 × 30 cm, 2 bars Part Number: 30400121



Flask Clamp 250 ml Part Number: 30400088



Micro Tube Rack Part Number: 30400114



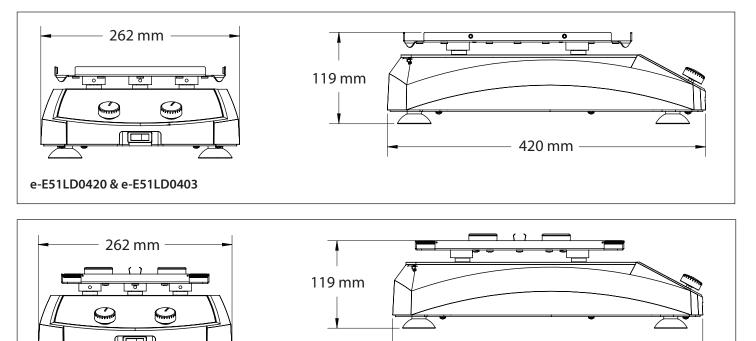
Flask Clamp PVC 125 ml Part Number: 30400099



Sticky Mat 22 × 18 cm Part Number: 30770939

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Outline Dimensions



e-E51LDMP03

Other Features and Equipment

Visual and audio alarm when timer counts down to zero or an error occurs, small footprint to save bench space, advanced microprocessor control slowly ramps the shaker tray up to the desired speed and avoids splashing, durable chemical-resistant polymer housing, sturdy easy-to-clean aluminum standard tray with attachment points for accessories, optional accessory platform to expand capacity, control knobs, ON/OFF switch

Compliance

- Product Safety: IEC/EN 61010-1; IEC/EN 61010-2-051
- Electromagnetic Compatibility: IEC/EN 61326-1 Class B, Basic electromagnetic environment
- Compliance Marks: CE; UKCA; TÜV SÜD
- Other: IP21

OHAUS Europe GmbH

420 mm

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The management system governing the manufacture of this product is ISO 9001:2015 certified.

