eppendorf



Advanced excellence

New Brunswick Excella® budget-saving laboratory shakers for superior performance

Excella® budget-saving shakers

Excellent Excella®

Eppendorf's New Brunswick Excella® biological shakers provide advanced features and excellent performance at an affordable price. All eight temperature-controlled and open-air Excella® models feature heavy-duty drives, providing long life and quiet operation under moderate loads and at speeds up to 400 rpm. A wide variety of interchangeable platforms, clamps, and test tubes provide expansive levels of flexibility. Excella®... simply the best preforming biological shakers in their price range!

Product features

- > Microproccessor controls to enable precise setting of speed, running time, and temperature¹
- > Unique acceleration/deceleration circuit to prevent sudden starts and stops¹
- > Timer to enable programmable shaking periods from 0.1 99.9 hrs with automatic shutoff
- > Clear audible and visible alarms to alert you to setpoint deviations of ≥ 2 rpm and $\geq 5^{\circ}C^{1}$
- > Certification: cETLus meets UL, CSA and CE standards

¹ Applies to all models except the analog-controlled E1, which is provided with reference calibrations that allow the shaker to be set manually for reproducible results from one run to the next



Benchtop open-air shakers

- > E1 & E2 series: flasks up to 500 mL
- > E5 & E10 series: flasks up to 6 liters
- > Agitation 50 400 rpm, \pm 2 rpm
- > All models except E1 are microprocessor controlled
- > Analog controlled E1 provides a low cost solution for basic needs
- > Callibrate speed using the microprocessor controlled keypad (except E1)
- > Analog controlled E1 is provided with reference calibrations to allow manual setting for reproducible results from one run to the next



Temperature-controlled Excella® shakers

- > E24 series: flasks up to 2.8 liters
- > E25 series: flasks up to 6 liters
- > Agitation 50 400 rpm, ± 2 rpm (less with baffled flasks)
- > Uniform temperature control and rapid temperature recovery result from microprocessor feedback controls, air-tight chamber and high-velocity fans
- > Thermostat fail-safe device turns off heaters if the high temperature limit is exceeded
- > RS-232 provided for data logging
- > For operator safety, a cuttoff switch immediately stops agitation when the lid is opened
- > Available datalogging via BioCommand® SFI
- > All New Brunswick shakers use same accessories
- > Certification: cETLus meets UL, CSA and CE standards

Technical specifications	E1	E2	E5	E10
Description				
Orbit	1.9 cm (0.75 in)	1.9 cm (0.75 in)	1.9 cm (0.75 in)	2.5 cm (1.0 in)
Dimensions (W x D x H)	40 x 45.5 x 21.6 cm	40 x 45.5 x 21.6 cm	52 x 45.5 x 21.6 cm	76 x 68.6 x 21.6 cm
	(15.8 x 17.9 x 8.5 in)	(15.8 x 17.9 x 8.5 in)	(20.5 x 17.9 x 8.5 in	(30 x 27 x 8.5 in)
Platform size	33 x 28 cm	33 x 28 cm	46 x 46 cm	76 x 46 cm
	(13 x 11 in)	(13 x 11 in)	(18 x 18 in)	(30 x 18 in)
Weight	NET:	NET:	NET:	NET:
	23 kg (51 lbs)	24 kg (52 lbs)	43 kg (95 lbs)	42 kg (93 lbs)
	SHIPPING:	SHIPPING:	SHIPPING:	SHIPPING:
	27 kg (60 lbs	28 kg (61 lbs)	45 kg (99 lbs)	52 kg (115 lbs)
Alarm	_	AUDIBLE & VISIBLE:	AUDIBLE & VISIBLE:	AUDIBLE & VISIBLE:
		end of run and ±5 rpm	end of run and ±5 rpm	end of run and ±5 rpm
		deviation from speed	deviation from speed	deviation from speed
		setpoint	setpoint	setpoint
Speed (rpm)	50 to 400	50 to 400	50 to 400	50 to 400
Controls	Analog dial	Digital	Digital	Digital

Technical specifications	E24	E24R	E25	E25R
Description				
Orbit	1.9 cm (0.75 in)	1.9 cm (0.75 in)	2.5 cm (1.0 in)	2.5 cm (1.0 in)
Dimensions (W x D x H)	56 x 76.2 x 61 cm	56 x 76.2 x 61 cm	127 x 77 x 105.9 cm	127 x 77 x 105.9 cm
	(22 x 30 x 24 in)	(22 x 30 x 24 in)	(50 x 30.5 x 41.7 in)	(50 x 30.5 x 41.7 in)
	open lid requires additional			
	53.3 cm (20.98 in) height	53.3 cm (20.98 in) height	59.1 cm (23.3 in) height	59.1 cm (23.3 in) height
Platform size	46 x 46 cm	46 x 46 cm	76 x 46 cm	76 x 46 cm
	(18 x 18 in)	(18 x 18 in)	(30 x 18 in)	(30 x 18 in)
Weight	NET:	NET:	NET:	NET:
	60 kg (133 lbs)	80 kg (175 lbs)	171 kg (377 lbs)	191 kg (421 lbs)
	SHIPPING:	SHIPPING:	SHIPPING:	SHIPPING:
	91 kg (200 lbs)	111 kg (245 lbs)	254 kg (560 lbs)	263 kg (581 lbs)
Ambient conditions	10° C to 35° C			
	HUMIDITY:	HUMIDITY:	HUMIDITY:	HUMIDITY:
	20 to 80 %			
	(non-condensing)	(non-condensing)	(non-condensing)	(non-condensing)
Speed (rpm)	50 to 400	50 to 400	50 to 400	50 to 400
Temperature range	7° C above	15° C below	7° C above	15° C below
-	ambient to 60° C			
Temperature uniformity	±0.5° C at 37° C			

Ordering information

Excella® shakers
E1
E2
E5
E10
E24
E24R
E25
E25R

Order no.	
M1354-0001 (230 V, 50/60 Hz)	M1354-0000 (120 V, 50/60 Hz)
M1350-0001 (230 V, 50/60 Hz)	M1350-0000 (120 V, 50/60 Hz)
M1355-0001 (230 V, 50/60 Hz)	M1355-0000 (120 V, 50/60 Hz)
M1351-0001 (230 V, 50/60 Hz)	M1351-0000 (120 V, 50/60 Hz)
M1352-0002 (230 V, 50 Hz)	M1352-0000 (120 V, 60 Hz)
M1352-0006 (230 V, 50 Hz)	M1352-0004 (120 V, 60 Hz)
M1353-0002 (230 V, 50 Hz)	M1353-0000 (120 V, 60 Hz)
M1353-0006 (230 V, 50 Hz)	M1353-0004 (120 V, 60 Hz)



Accessories

Universal platform (clamp capacities)		Dedicated platforms (clamps included)			
E1,E2	E5,E24/E24R	E10,E25/E25R	E1,E2	E5,E24/E24R	E10,E25/E25R
60	109	-	60	-	-
20	64	-	32	-	-
15	45	92	20	64	108
11	21	39	12	34	60
6	18	30	8	25	40
4	14	18	6	16	24
-	8	12	-	9	15
-	5	8	-	5	12
-	4	6	-	4	6
-	4	6	-	-	6
-	2	4	-	-	4
-	2	4	-	-	-
3	8	16	-	-	-
	E1,E2 60 20 15 11 6 4	E1,E2 E5,E24/E24R 60 109 20 64 15 45 11 21 6 18 4 14 - 8 - 5 - 4 - 4 - 2 - 2	E1,E2 E5,E24/E24R E10,E25/E25R 60 109 - 20 64 - 15 45 92 11 21 39 6 18 30 4 14 18 - 8 12 - 5 8 - 4 6 - 4 6 - 2 4 - 2 4 - 2 4	E1,E2 E5,E24/E24R E10,E25/E25R E1,E2 60 109 - 60 20 64 - 32 15 45 92 20 11 21 39 12 6 18 30 8 4 14 18 6 - 8 12 - - 5 8 - - 4 6 - - 4 6 - - 4 6 - - 2 4 - - 2 4 -	E1,E2 E5,E24/E24R E10,E25/E25R E1,E2 E5,E24/E24R 60 109 - 60 - 20 64 - 32 - 15 45 92 20 64 11 21 39 12 34 6 18 30 8 25 4 14 18 6 16 - 8 12 - 9 - 5 8 - 5 - 4 6 - 4 - 4 6 - - - 2 4 - - - 2 4 - -

Accessories: Racks & clamps

- > Test tube racks mount to Universal Platforms; thumb screws let you easily adjust the angle of the rack to increase media oxygenation as well as quickly remove the rack holder for transporting tubes from shaker to bench; available in a variety of sizes
- > Microplate racks mount to any universal platform for shaking microplates
- > Flask clamps made of single-piece stainless steel, fitted with springs for stability at elevated speeds; Include mounting screws

Accessories: Sticky tape & pad

- > Sticky tape: 41.7 x 4.1 cm (16.4 ft x 1.6 in) roll, ideal for small flasks and speeds up to 250 rpm
- > Sticky pad: 20 x 20 cm (8 x 8 in) pad uses adhesive to secure flasks or racks in place; simply wash to regenerate; speeds up to 250 rpm; requires adapter kit

Accessories: Platforms

- > Universal platforms provide flexibility for mixing different sizes of glassware on a single platform
- > Dedicated platforms provide maximum capacity when using a single flask size, and comes with clamps installed
- > Utility carriers secure vessels between adjustable, cushioned rods
- > Utility trays provide a non-slip surface for low speed applications
- > Microplate platforms for shaking microplates
- > Sticky pad platforms for use with Sticky pad

Please see our product catalog or ask your local distributor for accessories ordering information:

www.eppendorf.com/worldwide



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