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 guiet 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, ± 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



E24

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 | | | |
| | open lid requires additional 53.3 cm (20.98 in) height | open lid requires additional 53.3 cm (20.98 in) height | open lid requires additional 59.1 cm (23.3 in) height | open lid requires additional 59.1 cm (23.3 in) height | |
| Platform size | | | | | |
| Platform size | 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 Weight | 53.3 cm (20.98 in) height 46 x 46 cm | 53.3 cm (20.98 in) height 46 x 46 cm | 59.1 cm (23.3 in) height 76 x 46 cm | 59.1 cm (23.3 in) height 76 x 46 cm | |
| | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: | |
| | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) | |
| | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 60 kg (133 lbs) | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 80 kg (175 lbs) | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 171 kg (377 lbs) | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 191 kg (421 lbs) | |
| | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 60 kg (133 lbs) SHIPPING: | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 80 kg (175 lbs) SHIPPING: | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 171 kg (377 lbs) SHIPPING: | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 191 kg (421 lbs) SHIPPING: | |
| Weight | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 60 kg (133 lbs) SHIPPING: 91 kg (200 lbs) | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 80 kg (175 lbs) SHIPPING: 111 kg (245 lbs) | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 171 kg (377 lbs) SHIPPING: 254 kg (560 lbs) | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 191 kg (421 lbs) SHIPPING: 263 kg (581 lbs) | |
| Weight | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 60 kg (133 lbs) SHIPPING: 91 kg (200 lbs) 10° C to 35° C | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 80 kg (175 lbs) SHIPPING: 111 kg (245 lbs) 10° C to 35° C | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 171 kg (377 lbs) SHIPPING: 254 kg (560 lbs) 10° C to 35° C | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 191 kg (421 lbs) SHIPPING: 263 kg (581 lbs) 10° C to 35° C | |
| Weight | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 60 kg (133 lbs) SHIPPING: 91 kg (200 lbs) 10° C to 35° C HUMIDITY: | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 80 kg (175 lbs) SHIPPING: 111 kg (245 lbs) 10° C to 35° C HUMIDITY: | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 171 kg (377 lbs) SHIPPING: 254 kg (560 lbs) 10° C to 35° C HUMIDITY: | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 191 kg (421 lbs) SHIPPING: 263 kg (581 lbs) 10° C to 35° C HUMIDITY: | |
| Weight | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 60 kg (133 lbs) SHIPPING: 91 kg (200 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 80 kg (175 lbs) SHIPPING: 111 kg (245 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 171 kg (377 lbs) SHIPPING: 254 kg (560 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 191 kg (421 lbs) SHIPPING: 263 kg (581 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % | |
| Weight Ambient conditions Speed (rpm) | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 60 kg (133 lbs) SHIPPING: 91 kg (200 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % (non-condensing) | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 80 kg (175 lbs) SHIPPING: 111 kg (245 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % (non-condensing) | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 171 kg (377 lbs) SHIPPING: 254 kg (560 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % (non-condensing) | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 191 kg (421 lbs) SHIPPING: 263 kg (581 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % (non-condensing) | |
| Weight Ambient conditions | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 60 kg (133 lbs) SHIPPING: 91 kg (200 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % (non-condensing) 50 to 400 | 53.3 cm (20.98 in) height 46 x 46 cm (18 x 18 in) NET: 80 kg (175 lbs) SHIPPING: 111 kg (245 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % (non-condensing) 50 to 400 | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 171 kg (377 lbs) SHIPPING: 254 kg (560 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % (non-condensing) 50 to 400 | 59.1 cm (23.3 in) height 76 x 46 cm (30 x 18 in) NET: 191 kg (421 lbs) SHIPPING: 263 kg (581 lbs) 10° C to 35° C HUMIDITY: 20 to 80 % (non-condensing) 50 to 400 | |

Ordering information

| Excella [®] shakers | Order no. | |
|------------------------------|------------------------------|------------------------------|
| E1 | M1354-0001 (230 V, 50/60 Hz) | M1354-0000 (120 V, 50/60 Hz) |
| E2 | M1350-0001 (230 V, 50/60 Hz) | M1350-0000 (120 V, 50/60 Hz) |
| E5 | M1355-0001 (230 V, 50/60 Hz) | M1355-0000 (120 V, 50/60 Hz) |
| E10 | M1351-0001 (230 V, 50/60 Hz) | M1351-0000 (120 V, 50/60 Hz) |
| E24 | M1352-0002 (230 V, 50 Hz) | M1352-0000 (120 V, 60 Hz) |
| E24R | M1352-0006 (230 V, 50 Hz) | M1352-0004 (120 V, 60 Hz) |
| E25 | M1353-0002 (230 V, 50 Hz) | M1353-0000 (120 V, 60 Hz) |
| E25R | M1353-0006 (230 V, 50 Hz) | M1353-0004 (120 V, 60 Hz) |

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|---------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 - 2 | E1,E2E5,E24/E24RE10,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 | $ \begin{array}{ c c c c c c c } \hline E1,E2 & E5,E24/E24R & E10,E25/E25R & E1,E2 \\ \hline 60 & 109 & - & 60 \\ \hline 20 & 64 & - & 32 \\ \hline 20 & 64 & - & 32 \\ \hline 15 & 45 & 92 & 20 \\ \hline 11 & 21 & 39 & 12 \\ \hline 6 & 18 & 30 & 8 \\ \hline 4 & 14 & 18 & 6 \\ \hline - & 8 & 12 & - \\ \hline - & 5 & 8 & - \\ \hline - & 5 & 8 & - \\ \hline - & 4 & 6 & - \\ \hline - & 2 & 4 & - \\ \hline - & 2 & 4 & - \\ \hline - & 2 & 4 & - \\ \hline \end{array} $ | $ \begin{array}{ c c c c c c c } \hline E1,E2 & E5,E24/E24R & E10,E25/E25R & E1,E2 & E5,E24/E24R \\ \hline 60 & 109 & - & 60 & - \\ \hline 20 & 64 & - & 32 & - \\ \hline 12 & 45 & 92 & 20 & 64 \\ \hline 11 & 21 & 39 & 12 & 34 \\ \hline 6 & 18 & 30 & 8 & 25 \\ \hline 4 & 14 & 18 & 6 & 16 \\ \hline - & 8 & 12 & - & 9 \\ \hline - & 5 & 8 & - & 5 \\ \hline - & 4 & 6 & - & 4 \\ \hline - & 4 & 6 & - & 4 \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & 2 & 4 & - & - \\ \hline - & - & 2 & 4 & - & - \\ \hline - & - & 2 & 4 & - & - \\ \hline - & - & 2 & 4 & - & - \\ \hline - & - & 2 & 4 & - & - \\ \hline - & - & 2 & 4 & - & - \\ \hline - & - & 2 & 4 & - & - \\ \hline - & - & 2 & - & - \\ \hline - & - & 2 & - & - \\ \hline - & - & 2 & - & - \\ \hline - & - & 2 & - & - \\ \hline - & - & 2 & - & - \\ \hline - & - & 2 & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline - & - & - & - \\ \hline$ |

Accessories : Racks & clamps

Accessories

- > 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

Your local distributor: www.eppendorf.com/contact Eppendorf AG · 22331 Hamburg · Germany E-mail: newbrunswick@eppendorf.com

www.eppendorf.com

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