

New Brunswick Scientific Innova 2300
Large Capacity Platform Shaker



**Limited Availability
Used and in Excellent Condition**

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Open Air Shakers: Innova® 2000, 2100 & 2300 Series

For shaking in ambient conditions: on the bench, in an incubator, or in a warm or cold room, Innova Open Air Shakers are the instruments of choice. Six ruggedly-constructed models provide reliable, continuous-duty shaking of test tubes and flasks to 6 liters.

- **Low Profile** — less than 6" (15 cm) Tall enables use of multiple shakers in an incubator or environmental chamber.
- **Space-Efficient, Four-Tier Racking System** is available to house up to eight Model 2300 shakers.

Options

- **Optional, Oversize Platforms and Stabilizer Kits Increase Benchtop Shaker Capacity by 45%.** For field conversion kit to upgrade your Model 2000 to a 2050, order catalog no. M1190-9910. Convert 2100 to a 2150: M1194-9926. Convert 2300 to a 2350: M1191-9905. Or select our factory-ready models 2050, 2150 and 2350 from the chart on page 19.
- **Temperature/Speed Monitoring Kit** with RTD sensor displays and records process values. Innova 2100 & 2300 Series only. Catalog No. M1190-9909.



Increase capacity quickly and easily with our oversized platforms and capacity upgrade kits. Model 2150 shown.



Left to right, Innova 2100, 2300 and 2000 Open Air Shakers.



Innova 5050 racking system saves valuable floor space by stacking up to four Model 2300 shakers on sturdy stainless-steel shelves. Shown with additional extension rack, Model 5051, for housing a total of eight shakers. Built-in electric outlet provides convenient power source for shakers, which are sold separately.

& 5050 Racking System

| Specifications * | | Innova 2000/2050 | Innova 2100/2150 | Innova 2300/2350 |
|--------------------|-------------------|--|------------------|---|
| Shaking | Range § | 25 to 500 rpm with 3/4" (1.9 cm) orbit | | 25 to 500 rpm with 1" (2.54 cm) orbit 25 to 300 rpm with 2" (5.1 cm) orbit |
| | Control | ± 1 rpm | | |
| | Drive Mechanism | Triple-eccentric counter-balanced drive in cast iron housing with 9 permanently lubricated ball bearings. Driven by solid-state brushless DC motor | | |
| | Timer | Digital LED electronic display in 1 rpm increments. Character height: 9/16" (1.4 cm) | | |
| Timer | | Programmable shaking periods from 0.1 hr. to 99.9 hrs. Triggers audible alarm and energizes status light at end of period. Can be deactivated for continuous operation | | |
| Alarms | Audible & Visible | Indicate when speed deviates more than 5 rpm from setpoint and when timer operation has expired. Audible alarm may be muted | | |
| Setpoint Retention | | All setpoints and operating status are retained by non-volatile memory. Automatic restart after power is restored (indicated by flashing display) | | |
| LED Display | | Indicates speed in increments of 1 rpm, running time in 0.1 hrs., and alarm conditions. Character height: 9/16" (1.4 cm) | | |
| Power | Service | 120V 50/60 Hz; 220/230V 50/60 Hz; 240V 50/60Hz; 100V 50/60 Hz | | |
| | Power | 35 VA | 80 VA | 150 VA |
| Ambient Conditions | | Temperature: 0 - 60°C. Humidity: 90% non-condensing | | |
| Certifications | | Meets CSA and CE standards | | |
| Warranty | | Comprehensive warranty – two years on labor, three years on parts | | |

| Model No. | Platform Size ** | | Orbit | Overall Dimensions | | Gross Weight | |
|-------------|------------------|-------------|----------|--------------------|--------------------|--------------|------|
| | Inches | cm | | Inches (W x D x H) | cm (W x D x H) | lbs. | kg. |
| Innova 2000 | 13 x 11 | 33 x 28 | 3/4" | 14 x 14.5 x 5.75 | 35.5 x 37 x 14.6 | 33 | 15 |
| Innova 2050 | 16 x 12 | 40.6 x 30.5 | 3/4" | 17 x 14.5 x 5.75 | 43 x 37 x 14.6 | 43 | 19.1 |
| Innova 2100 | 18 x 18 | 45.7 x 45.7 | 3/4" | 19 x 21.9 x 6.4 | 48 x 55 x 16 | 120 | 54.4 |
| Innova 2150 | 24 x 18 | 60.9 x 45.7 | 3/4" | 24 x 23.3 x 6.4 | 60.1 x 59.1 x 16.2 | 125 | 57 |
| Innova 2300 | 30 x 18 | 76.2 x 45.7 | 1" or 2" | 30 x 22.3 x 6.4 | 76.2 x 45.7 x 16 | 45 | 66 |
| Innova 2350 | 36 x 24 | 91.4 x 60.9 | 1" or 2" | 36 x 24 x 6.4 | 91.4 x 61 x 16 | 150 | 68 |

* Specifications subject to change without notice. § Based on shaking a typical workload. Baffled flasks may significantly reduce maximum speed.

** Shaker platforms sold separately. See page 22.

| Shaker Capacity for 2000, 2100 & 2300 Series & 5050/5051 Racking ** | | | | | | | | | | | | | | | | |
|---|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|--------------|-------|----------------------|-------|
| Flask Size | Innova 2000 | | Innova 2050 | | Innova 2100 | | Innova 2150 | | Innova 2300 | | Innova 2350 | | 5050 Racking | | With Added 5051 Rack | |
| | Flasks/Platform | | Flasks/Platform | | Flasks/Platform | | Flasks/Platform | | Flasks/Platform | | Flasks/Platform | | Flasks/Rack | | Flasks/Rack | |
| | Ded. | Univ. | Ded. | Univ. | Ded. | Univ. | Ded. | Univ. | Ded. | Univ. | Ded. | Univ. | Ded. | Univ. | Ded. | Univ. |
| 10 mL | 60 | 60 | 86 | 86 | N/A | 109 | N/A | N/A | N/A | 183 | N/A | N/A | N/A | 732 | N/A | 1,464 |
| 25 mL | 32 | 20 | 48 | 32 | N/A | 64 | N/A | N/A | N/A | 92 | N/A | N/A | N/A | 368 | N/A | 736 |
| 50 mL | 20 | 15 | 35 | 32 | 64 | 45 | 80 | 63 | 108 | 92 | N/A | N/A | 432 | 368 | 864 | 736 |
| 125 mL | 12 | 11 | 20 | 16 | 34 | 21 | 48 | 35 | 60 | 39 | 96 | 75 | 240 | 156 | 480 | 312 |
| 250 mL | 8 | 6 | 12 | 10 | 25 | 18 | 35 | 24 | 40 | 30 | 70 | 50 | 160 | 120 | 320 | 240 |
| 500 mL | 6 | 4 | 8 | 8 | 16 | 14 | 20 | 20 | 24 | 18 | 40 | 30 | 96 | 72 | 12 | 144 |
| 1 L | N/A | N/A | 6 | N/A | 9 | 8 | 12 | 12 | 15 | 12 | 24 | 24 | 45 | 48 | 90 | 96 |
| 2 L | N/A | N/A | 3 | N/A | 5 | 5 | 8 | 8 | 12 | 8 | 15 | 15 | 36 | 32 | 72 | 64 |
| 2.8 L | N/A | N/A | N/A | N/A | 4 | 4 | N/A | 5 | 6 | 6 | 12 | 12 | N/A | N/A | N/A | N/A |
| 4 L | N/A | N/A | N/A | N/A | 4 | 4 | N/A | 5 | 6 | 6 | 12 | 10 | N/A | N/A | N/A | N/A |
| 5 L | N/A | N/A | N/A | N/A | N/A | 4 | N/A | 4 | N/A | 6 | N/A | 10 | N/A | N/A | N/A | N/A |
| 6 L | N/A | N/A | N/A | N/A | N/A | 2 | N/A | 3 | 4 | 4 | 6 | 8 | N/A | N/A | N/A | N/A |

| Electric | Ordering Information ** — Catalog No. | | | | | | | |
|---------------|---------------------------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|
| | Innova 2000 | Innova 2050 | Innova 2100 | Innova 2150 | Innova 2300 | | Innova 2350 | |
| | 3/4" 1.9 cm orbit | 3/4" 1.9 cm orbit | 3/4" 1.9 cm orbit | 3/4" 1.9 cm orbit | 1" 2.54 cm orbit | 2" 5.08 cm orbit | 1" 2.54 cm orbit | 2" 5.08 cm orbit |
| 120V 50/60 Hz | M1190-0000 | M1190-0010 | M1194-0000 | M1194-0010 | M1191-0000 | M1191-0020 | M1191-0010 | M1191-0030 |
| 100V 50/60 Hz | M1190-0001 | M1190-0011 | M1194-0001 | M1194-0011 | M1191-0001 | M1191-0021 | M1191-0011 | M1191-0031 |
| 230V 50/60 Hz | M1190-0002 | M1190-0012 | M1194-0002 | M1194-0012 | M1191-0002 | M1191-0022 | M1191-0012 | M1191-0032 |
| 240V 50/60 Hz | M1190-0003 | M1190-0013 | M1194-0003 | M1194-0013 | M1191-0003 | M1191-0023 | M1191-0013 | M1191-0033 |

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