

Benchmark 

# ORBi-SHAKER™ CO<sub>2</sub>

Remote Controlled, All Environment Shakers

WITH  
**MAGiC  
CLAMP™**  
PATENT PENDING

- + *Designed to fit and maximize capacity in most CO<sub>2</sub> incubators and chambers*
- + *Remote control, adjust settings without disrupting the CO<sub>2</sub> environment*
- + *Exchange flask clamps in one second with MAGiC Clamp™ platform.*



# ORBi-SHAKER™ CO<sub>2</sub>

## Remote Controlled, All Environment Shakers

The new Orbi-Shaker CO<sub>2</sub> series is designed for shaking, mixing & aeration applications in extreme environments, including CO<sub>2</sub> incubators. It can withstand temperatures from 0 to 60°C and humidity levels up to 100%.

To avoid contamination, unintentional release of gas or deviations from protocol, all settings are adjusted via the included remote control module. This module can be stored outside of the chamber and connects to the shaker via a flat (1mm thickness) cable, that easily passes through a port or underneath an incubator door without compromising the seal. This allows for user adjustment of run time or mixing speed without opening the chamber door(s).

The instrument is supplied with a non-slip rubber mat platform. In addition, convenient MAGIC Clamp™ platforms (of multiple sizes) are also available for use with Erlenmeyer flasks and test tube racks. The unique magnetic attachment method has been widely recognized as the easiest way to instantly change between flask clamps of different sizes.



Item: BT4000

| Compatibility Chart:                                 | Thermo® HeraCell™ |     | New Brunswick™ |             | Shel Lab®   | Nuair™                 | Fisher®      | VWR® Symphony™ |      |
|--|-------------------|-----|----------------|-------------|-------------|------------------------|--------------|----------------|------|
|  | 150               | 240 | Galaxy® S41i   | Galaxy® 170 | 142L & 167L | 4750, 4850, 4950, 5800 | IsoTemp™ 184 | 5.3A           | 8.5A |
| Orbi-Shaker CO <sub>2</sub> (14 x 12" platform)      | ●                 | ●   | ●              | ●           | ●           | ●                      | ●            | ●              | ●    |
| Orbi-Shaker CO <sub>2</sub> XL (16 x 16.5" platform) | ●                 | ●   | N/A            | ●           | ●           | ●                      | ●            | ●              | ●    |
| Orbi-Shaker CO <sub>2</sub> XL (18 x 18 platform)    | N/A               | ●   | N/A            | N/A         | ●           | ●                      | ●            | N/A            | ●    |



Not Compatible



Compatible



Compatible, Maximizes Capacity



Remote controller adjusts shaker settings from outside of the chamber and magnetically attaches to most incubators

### Technical Data

|                         |  |
|-------------------------|--|
| Speed Range:            | 30 to 300 rpm  |
| Speed Increment:        | 1 rpm  |
| Orbit:                  | 19mm   |
| Max. Capacity:          |  |
| BT4000                  | 2 x 2L or 5 x 1L Flasks                              |
| BT4010                  | 5 x 2L or 9 x 1L Flasks                              |
| Platform Dimensions:    |  |
| Included with BT4000:   | 13 x 12 in. / 33 x 30 cm                             |
| Included with BT4010:   | 16 x 16.5 in. / 40.5 x 42 cm                         |
| Ambient Operating Temp: | 0° to 60°C   |
| Weight:                 | BT4000: 25 lbs / 11.3 kg<br>BT4010: 50 lbs / 22.7 kg |
| Dimensions:             |  |
| BT4000 Shaker:          | 11.9 x 13.4 x 3.5 in.<br>30 x 34 x 9 cm              |
| BT4010 Shaker:          | 17 x 18 x 5 in.<br>43 x 45.75 x 12.7 cm              |
| Cord Length:            | 60.5 in. / 154 cm                                    |
| Electrical:             | 115V Or 230V, 50-60Hz*                               |

### Ordering Information

**BT4000\*** Orbi-Shaker CO<sub>2</sub>, Shaker with remote control, includes 13x12" non-slip platform, 115V

**BT4010\*** Orbi-Shaker CO<sub>2</sub> XL, Shaker with remote control, includes 16x16.5" non-slip platform, 115V

\*To order item in 230V, add (-E) to item number.

### Optional - Universal Platforms

|           |  |
|-----------|--|
| BT3000-MR | MAGic Clamp universal platform for BT4000 (14x12")   |
| BT4010-MR | MAGic Clamp universal platform for BT4010 (16x16.5") |
| H1010-MR  | MAGic Clamp universal platform for BT4010 (18x18")   |

### Flask & Tube Rack Accessories for MAGic Clamp Platforms

|               |   |
|---------------|---|
| H1000-MR-50   | Flask Clamp, 50ml (BT4000: max. 20 / BT4010: max. 30*)                      |
| H1000-MR-125  | Flask Clamp, 125ml (BT4000: max. 12 / BT4010: max. 24*)                     |
| H1000-MR-250  | Flask Clamp, 250ml (BT4000: max. 8 / BT4010: max. 14*)                      |
| H1000-MR-500  | Flask Clamp, 500ml (BT4000: max. 5 / BT4010: max. 9*)                       |
| H1000-MR-1000 | Flask Clamp, 1000ml (BT4000: max. 4 / BT4010: max. 5*)                      |
| H1000-MR-2000 | Flask Clamp, 2000ml (BT4000: max. 1 / BT4010: max. 2*)                      |
| H1000-MR-1550 | Tube Rack, 12x50 & 21x15 ml tubes (BT4000: max. 1 / BT4010: max. 2*)        |
| H1000-MR-T15  | Tube Rack, 32x15 tubes (BT4000: max. 2 / BT4010: max. 3*)                   |
| H1000-MR-T50  | Tube Rack, 15x50 tubes (BT4000: max. 2 / BT4010: max. 3*)                   |
| H1000-MR-T600 | Bottle Rack, 4x500/600ml conical bottles (BT4000: max. 1 / BT4010: max. 2*) |

\*Maximum capacity listed for the BT4010 with the optional H1010-MR MAGic Clamp Platform.

**Benchmark** Scientific

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