



- ▶ **High capacity (24x2ml)**
- ▶ **Cooling function to protect temperature sensitive samples**
- ▶ **True refrigeration - no external connections, dry ice or liquid nitrogen**
- ▶ **Full range of bead materials and sizes to meet sample needs**

The BeadBlaster™ 24R is a highly efficient bead homogenizer with built in refrigeration to protect temperature sensitive molecules from heat degradation and denaturation.

Unlike most bead homogenizers, the BeadBlaster 24R has true, compressor-based refrigeration – no dry ice, no liquid nitrogen and no air supply needed. Simply set the desired temperature and precool the chamber. Temperature will be maintained throughout the homogenization process.

The BeadBlaster 24R retains many of the features of our popular BeadBlaster 24. The stainless steel tube carrier subjects up to 24 samples to an optimized, high speed, 3D motion, producing high energy impacts between the samples and micro-beads to release cellular contents. Operating parameters are set and displayed digitally, while 50 profiles can be stored in memory and recalled for future use. A brushless motor reduces motor noise and provides maintenance free operation.

Benchmark offers an assortment of prefilled tube kits for processing a variety of sample types. The popular Triple-Pure™ kits include acid washed, heat treated, zirconium beads. The beads are tested to be free of nucleases, making them ideal for molecular biology applications.

### Technical Data:

Capacity:	<b>24 x 2.0ml tubes</b>
Speed:	<b>4.00 to 7.00 m/s, 0.05 increments</b>
Cycle time:	<b>1 - 90 sec, 1 sec increments</b>
Pause between cycles:	<b>0-2 min, 1 sec increments</b>
Max. cycles per program:	<b>10</b>
Program memory:	<b>up to 50</b>
Accel. / Decel. time:	<b>&lt;4 sec / &lt;4 sec</b>
Cooling method:	<b>Compressor</b>
Temperature range:	<b>-10°C to ambient</b>
Precool ambient to 0°C:	<b>&lt;30 minutes</b>
Chamber uniformity:	<b>±2°C</b>
Noise level:	<b>&lt;65db</b>
Dimensions (WxDxH):	<b>12.6 x 20.1 x 16.2 in / 32 x 51 x 41 cm</b>
Weight:	<b>88 lb / 40kg</b>
Electrical:	<b>120 V/50Hz or 240V/60Hz</b>
Power:	<b>1000W</b>
Warranty:	<b>2 years</b>



### Ordering Information:

**D2400-R\*** BeadBlaster™ 24R Refrigerated Microtube Homogenizer for 24x2.0ml tubes  
**D2400-R5** Optional tube holder, 12x5ml tubes

#### Pre-filled Tube Kits: (2.0ml unless otherwise noted)

D1031-01	Standard glass beads, Ø0.1mm, 50pk.
D1031-05	Standard glass beads, Ø0.5mm, 50pk.
D1031-10	Standard glass beads, Ø1.0mm, 50pk.
D1032-01	Triple-Pure, High Impact zirconium beads, Ø0.1mm, 50pk.
D1032-05	Triple-Pure, High Impact zirconium beads, Ø0.5mm, 50pk.
D1032-10	Triple-Pure, High Impact zirconium beads, Ø1.0mm, 50pk.
D1032-15	Triple-Pure, High Impact zirconium beads, Ø1.5mm, 50pk.
D1032-30	Triple-Pure, High Impact zirconium beads, Ø3.0mm, 50pk.
D1032-SK	Starter Kit, 10 each of Ø0.1, 0.5, 1.0, 1.5 & 3.0 Triple-Pure Zirconium
D1033-28	Stainless Steel Beads, Ø2.8mm, 50pk.
D1033-30G	Gamet shards and one Ø6mm satellite, 50pk
D1034-MX	Ø0.1mm silica, Ø1.4mm zirconium and Ø24mm silica, 50pk
D1032-60	Ø6mm ceria based zirconium oxide satellite, 50pk
D1034-28	Stainless Steel Beads, Ø2.8mm, 5ml tube, 50pk

Empty tubes and bulk beads also available.

\* Supplied with US plug, for EU plug, please add (-E) to item number.



Standard Glass beads (Acid Washed)



Triple-Pure™ (Molecular Biology Grade) Zirconium Beads