

## BELLCO HEAVY DUTY RECIPROCATING SHAKER



Bellco's **Heavy Duty Reciprocating Shaker** designed for general laboratory use where continuous side to side shaking action is required. The unit is ideal for bench top applications such as gel staining/destaining, cell culture in bioreactor bags or hybridization. A 16 x 16" platform tray with non-slip mat is included.

The chassis, cover and platform tray are manufactured from painted aluminum and the control panel features a digital speed controller with locking knob and a 3 position ON/OFF timer switch. The timer can be preset from 3-120 minutes and automatically shuts off when the desired time is reached. The unit is equipped with suction feet to prevent movement during operation and convenient carrying handles for easy relocation. A 50W brushless motor, Delrin plastic raceways and a balanced counterweight located above the chassis provide smooth, quiet reciprocal shaking motion.

### Specifications:

<b>Material:</b>	Heavy Duty .125" thick alum for chassis, cover & tray
<b>Speed Range:</b>	5-150 cycles/minute
<b>Dimensions:</b>	16"W x 18 1/2"D x 7.5"H (406 x 470 x 190mm) with tray
<b>Stroke:</b>	1"; 1-3/4" and 2.5" (25.4, 45 and 64mm)
<b>Maximum Load:</b>	35 lbs. (16kg) evenly distributed

### Features:

- **Variable speed maintenance-free brushless DC motor**
- **Digital LED speed display**
- **3-120 minute timer shuts off automatically**
- **Peg & Grommet platform tray for quick removal**
- **Lifting handles for ease of carrying**
- **Suction feet for added stability**
- **SST ball bearings and Delrin raceways for smooth operation**
- **Inline power supply included**
- **CE compliant (230V)**

<u>Stock No.</u>	<u>Description</u>
7644-30115	Heavy Duty Reciprocating Shaker, 115V*
7644-30230	Heavy Duty Reciprocating Shaker, 230V*

\*Includes inline power supply & platform tray

\*\* Maximum required bench space for shaker:

18" Wide x 18 1/2" Deep x 7.5" H (without items on tray)



BELLCO GLASS, INC.



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## BELLCO 500mL Optima™ Mini and 4L Optima™ Sterile Cell Culture Bags

**Optima™ Mini and Optima™** Single Use, Sterile Cell Culture Bags are ideal for suspension cell culture. These bags may be used with conventional laboratory shaking platforms to achieve efficient gas exchange and uniform mixing for mammalian, insect and plant cell culture. Bags are gamma sterilized, non-pyrogenic, and non-cytotoxic and meet USP Class VI requirements.

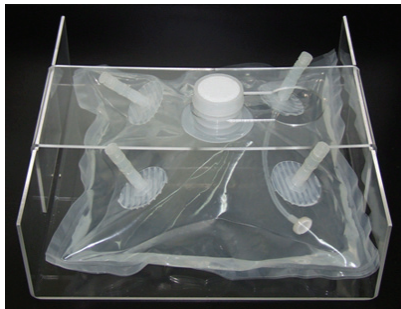
### Optima™ Cell Culture Bags are ideal for:

- Insect, plant and mammalian cell culture
- Perfusion culture with microcarriers
- Inoculum scale-up and production
- High containment fermentation
- Tissue Culture

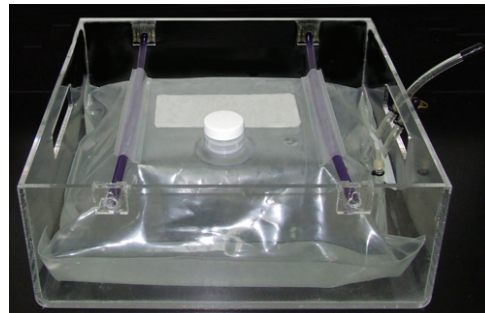
**Capacity:** Standard bags with working volume of 500mL and 4L  
**Single Use:** Gamma sterilized, ready to use and disposable  
**Gas exchange:** High performance gas-permeable membranes  
**Environment:** Sealed bags lower risk of contamination but allow sampling & observation  
**Screw Cap:** 30mm port for sampling, addition/removal of beads, matrices or tissues.

### Specifications:

<b>Optima Culture Bag</b>	<b>4700-B8010</b>	<b>4700-B2010</b>
Maximum working volume	500mL	4Liter
Minimum working volume	100mL	500mL
Dimensions	11 x 11"	15" x 16"
Access Ports, barbed	n/a	2 each at 1/4" ID (7mm)
Luer Lock ports	4	n/a
Dip Tube	1	n/a
Septum injection port	n/a	1 each
Screw cap port, 30mm	1	n/a
Gas permeable membrane	In cap	3" x 6" (75 x 150mm)
Operating temperature	up to 50°C (122°F)	up to 50°C (122°F)
Construction	LDPE	LDPE



500mL (11x11x3.5)



4Liter (15.5x15.5x6)

<b>Stock No.</b>	<b>Description</b>
7644-31000	Optima Standard Holding Tray, 15x15x6" (400x400x150mm)
4700-B2010	Optima Culture Bag, 4L, Gamma Sterilized
7644-32000	Optima Mini Holding Tray, 10.5x10.5x3.5: (270x270x90mm)
4700-B8010	Optima Mini Culture Bag, 500mL, Gamma Sterilized



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