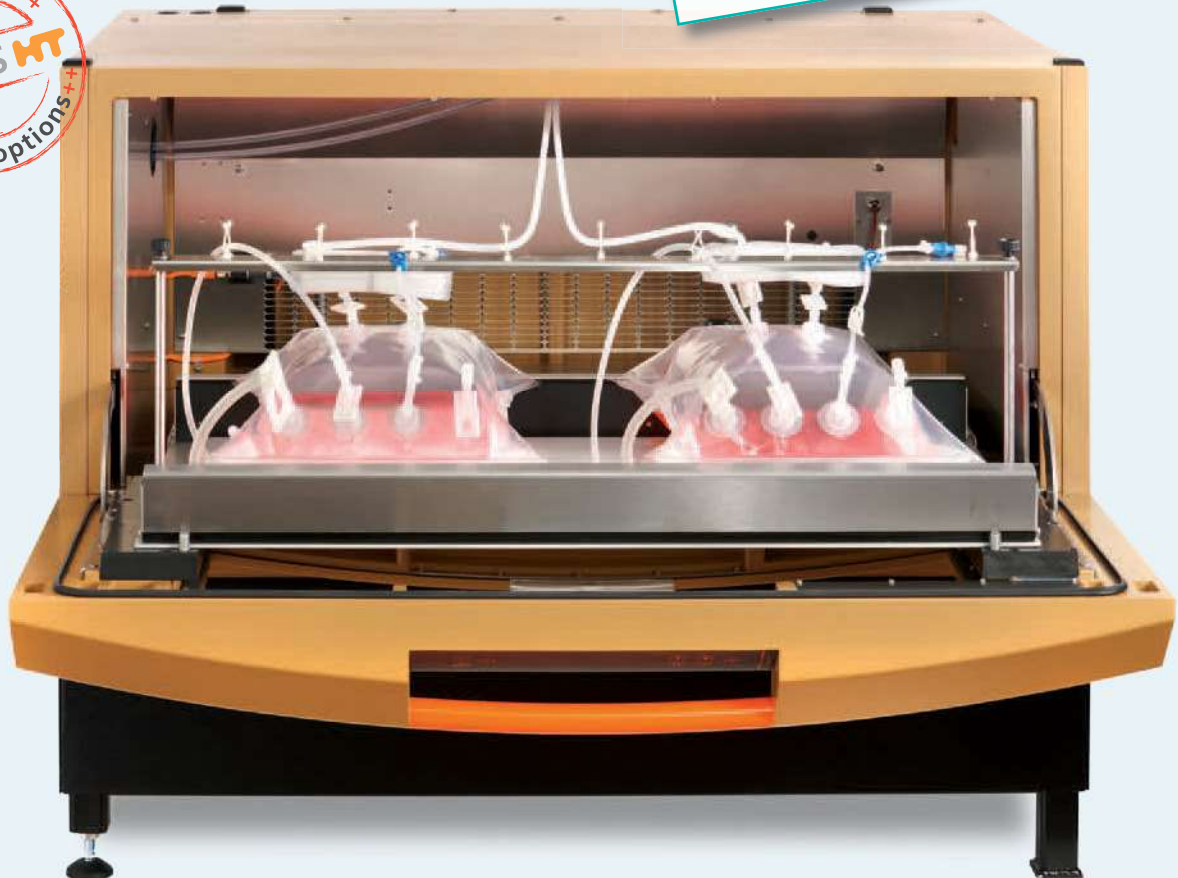


# ShakerBag Option

More flexibility in your incubator shaker

- ▶ Multifunctional
- ▶ Flexible application
- ▶ Highest capacity
- ▶ Optimal gas supply
- ▶ Even temperature control
- ▶ Safety device



# ShakerBag Option

## ▶ Multifunctional

The Multitron with ShakerBag Option\* is unique, in that it is the only orbital incubator shaker on the market offering the flexibility to culture mammalian, insect or plant cells not only in different sizes of disposable culture bags (2 L, 10 L, and 20 L), but also in shaker flasks, Fernbach flasks, tubes, and microtiter plates.

## ▶ Flexible application

The ShakerBag Option is ideally suited for preparation of seed cultures for bioreactors, production of small amounts of protein or process optimization. The early adaptation of the cells to mechanical orbital mixing delivers better culture results as compared to static cultures.

## ▶ Highest capacity

Provides sufficient space for up to 3 x 10 L batch cultures in disposable bags taking up the smallest footprint (by stacking three Multitron Cell units). Reduces time and the risk of contamination as compared to pooling many small culture vessels to achieve inoculation volume.

## ▶ Optimal gas supply

Each individual culture bag is supplied by its own gas feed line which guarantees optimal gas supply for parallel cultures as well. Gassing with pure air or air/CO<sub>2</sub> mixtures in the range of 0–20% are available as standard. Other gases are available on request.

## ▶ Even temperature control

The temperature of the cell culture is measured right on the disposable bag. The temperature control is effected throughout the entire incubation space such that an optimal temperature distribution during the cell culture can be guaranteed.

## ▶ Safety device

Each gas line is provided with a safety valve to prevent the disposable culture bags from bursting.



### Key Technical Data

Disposable bags	Tray capacity (per Multitron unit)	Working volumes per bag	Gassing flow rates
2 L	1–3 bag(s)	0.2–1 L	20–200 mL/min
10 L	1–2 bag(s)	1–5 L	100–1000 mL/min
20 L	1 bag	2–10 L	200–2000 mL/min

\* Please inquire regarding retrofitting; disposable culture bags not included

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