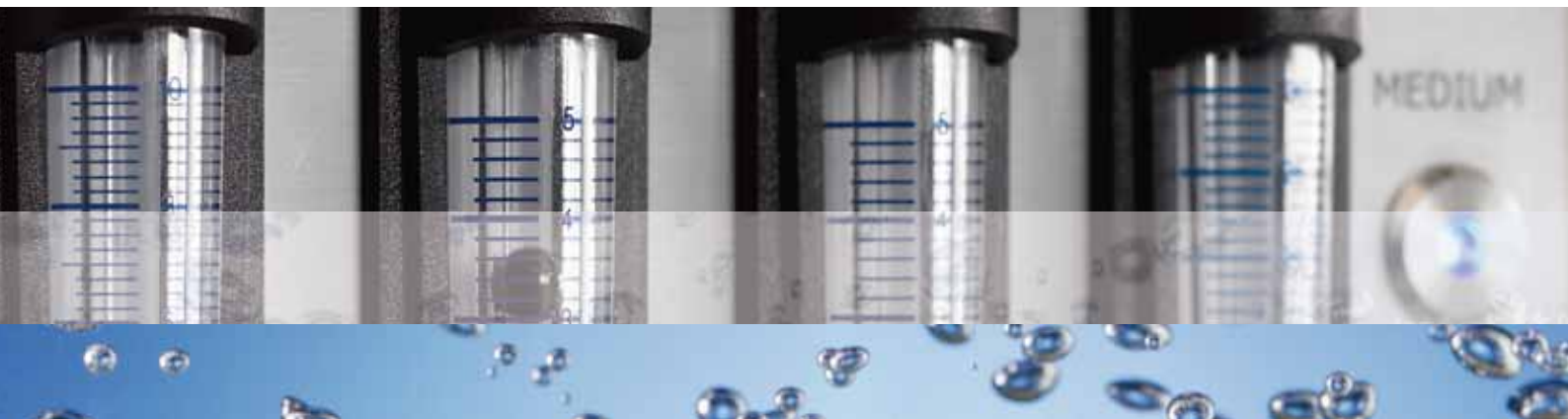


CellMaker Regular

The single-use bioreactor system providing higher ODs and improved yields of soluble protein



CellMaker Regular – proven technology

The CellMaker Regular™ utilises single-use, disposable cell culture bioreactor bags and does not require mechanical methods to mix or oxygenate. Whilst other disposable systems require shakers, rockers, rollers or large environmental chambers, the CellMaker Regular employs a novel airlift technology, available only from Cellexus Limited, which is simple, scalable and inexpensive to use.

The CellMaker Regular has been proven to outperform cell culture in flasks for *E. coli* and *Pichia pastoris*. It uses a unique single-use, disposable cell culture bag, the CellexusBag™, in which cells are grown, with fast set-up times and no cleaning requirements. When the CellexusBag is placed in the CellMaker Regular it is very efficiently aerated, with controlled air flow providing oxygen for cell growth and gentle, effective mixing to maintain cells in suspension. Pressure can be controlled to enhance oxygen availability to cells and decrease foaming. Temperature control also enables production of the highest yields of soluble protein under optimal conditions.



Main features and benefits

Use

- Simple and inexpensive to use – reduces costs
- Small footprint, compact – reduces bench-space needed
- Available in two sizes: 8-litre and 50-litre – flexibility in scale
- Applies the unique CellexusBag, single-use, disposable bioreactor bags – eliminates cross-contamination and minimises system down-time
- No cleaning needed – no time spent validating cleaning and reduces down-time
- Simple to operate – reduces training time/costs
- Easy to program and use – no computer software to install or programs to learn and minimal installation time of just 30 minutes

Flexibility and performance

- Provides highly accurate control conditions including temperature control (15°C-45°C) with built-in chiller – no external chilling/heating equipment needed and gives optimal production of higher ODs of soluble protein
- Built-in oxygen generation capability (up to 4 litres/minute) – eliminates need, and extra cost, of gas cylinders (cost savings on external gas could effectively pay for your disposable cell culture bags!)
- Higher efficiency of oxygen transfer – higher ODs for bacterial and yeast cells
- Higher performance than shaker flasks and comparable performance to steel/glass stirred systems – improved yields with ease of use
- Programmable air/enriched air flow rate (1-10 litres/minute) – provides very efficient mixing and aeration to improve yields
- Controls pressure inside the bioreactor cell culture bag – increases gas transfer and reduces foaming
- Connects to bioreactor cell culture bags via autoclavable, reusable sterile filters – minimises running costs
- Uses culture/sample ports – easy inoculation and removal of culture samples



Specifications

Dimensions

8-litre enclosure H 630mm W 380mm D 700mm
Controller H 700mm W 390mm D 850mm
The controller unit can fit under an 800mm high laboratory bench.

Weight

8-litre enclosure 15kg (approx.)
Controller 60kg (approx.)

Electrical current draw for 8-litre enclosure and controller: 5A
Controller maximum air output: 10 litres/minute
Maximum oxygen output: 4 litres/minute @ 93% +/- 3% purity
Headspace pressure: 50mbar
Built-in chiller

Part numbers

CellMaker Regular System 1 (8-litre):	Part no. 1200
CellMaker Regular System 1 (8-litre) with Oxygenator:	Part no. 1250
CellMaker Regular System 2 (50-litre):	Part no. 1500
CellMaker Regular System 2 (50-litre) with Oxygenator:	Part no. 1550

Cost-effective purchase

The CellMaker Regular is a competitively priced system which is cost-effective to use, providing higher ODs and improved yields of soluble protein.

Rental Plan

Cellexus Limited also provides flexible access terms by offering rentals via our low-cost monthly Rental Plan. By renting a system, with the rapid delivery expected when purchasing a system, you no longer have to wait for your next budgeting cycle. Our easy monthly Rental Plan means you can have a CellMaker Regular right now.

The benefits of our Rental Plan include:

- The rental agreement is directly with Cellexus Limited
- No third-party leasing company is involved
- No complicated paperwork needs to be completed
- No painful credit scoring needs to be endured
- Just a simple 12-month contract
- Full service and warranty of the system
- Local support personnel from Cellexus Limited or our sales partners

Two Rental Plans are available:

1. CellMaker Regular 8-litre system
2. CellMaker Regular 50-litre system

For further details, or to request a quotation, contact us now.

Contact details

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