

Corning® CellCube® System

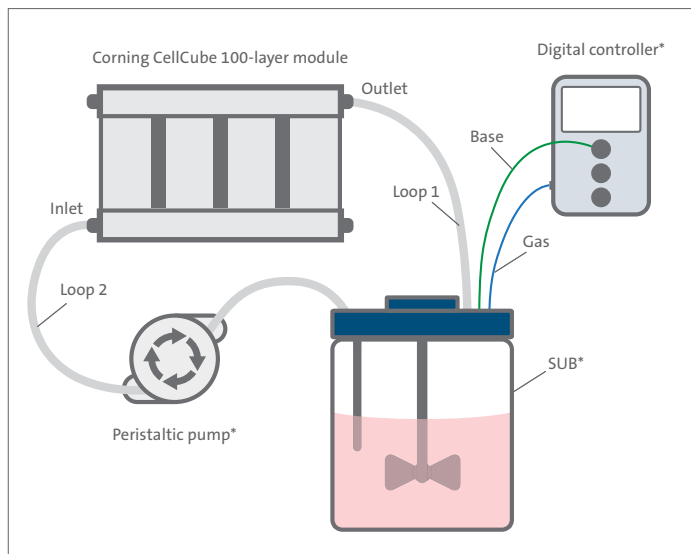
CORNING

The Corning CellCube system provides a compact, perfusion-based method for the mass culture of attachment-dependent cells. CellCube modules consist of a series of 10, 25, or 100 parallel, polystyrene plates joined to create thin, sealed laminar flow spaces between adjacent plates. CellCube modules are available with either a Tissue Culture-treated growth surface or Corning CellBIND® surface for cell attachment. The surface treatment is applied to both sides of each layer to achieve available surface area ranging from 8,500 cm² to 85,000 cm² in a compact footprint. The system continually perfuses the cells with fresh medium for increased cell productivity. The CellCube system provides an environment that more closely simulates *in vivo* conditions than a static culture with its perfusion-based design. It mimics the constant fluid flow of *in vivo* conditions and reliably distributes nutrients and oxygen with low differential gradients across all attached cells throughout the modules.

Features and Benefits

- ▶ Surface treatment on both sides of the plates doubles the available surface area within the same footprint
- ▶ Encapsulation and endplates made from polycarbonate for strength and long-term reliability
- ▶ Flow control orifice and directors promote even distribution of media
- ▶ Scale-up from 8,500 cm² to 85,000 cm² is linear and uses the same pumps and controller for greater efficiency

The culture medium is perfused through the Corning CellCube system by a peristaltic pump. This allows media to flow in from the controlled single use bioreactor (SUB) into the CellCube module and back to the SUB for conditioning. The controller system maintains the pH and dissolved oxygen (DO) levels of the perfused culture medium within the SUB to ensure consistent feeding of the cells in the CellCube modules.



*Peristaltic pump, controller, and SUB sold separately.

Ordering Information

Corning® CellCube® System Modules

Cat. No.	Description	Number of Layers	Growth Surface Area	Surface Treatment	Qty/Pk	Qty/Cs
3200	CellCube 10-Stack module	10	8,500 cm ²	Tissue Culture-treated	1	2
3201	CellCube 25-Stack module	25	21,250 cm ²	Tissue Culture-treated	1	1
3304	CellCube 25-Stack module	25	21,250 cm ²	Corning CellBIND	1	1
3264	CellCube 100-Stack module	100	85,000 cm ²	Tissue Culture-treated	1	1
3032	CellCube 100-Stack module	100	85,000 cm ²	Corning CellBIND	1	1

Corning CellCube Accessories

Cat. No.	Description	Qty/Pk	Qty/Cs
3136	CellCube single module stainless steel stand	1	1
92341	CellCube production cart	1	1



Production Cart Technical Specifications

Dimensions (H x W x D)	43 x 34 x 25 in. (110 x 87 x 64 cm)
Weight (without Corning CellCube module)	130 lbs. (59 kg)
Shipping weight	150 lbs. (68 kg)

E-Cube™ Culture System

The E-Cube system provides a simple proof of concept to determine if your cells will grow well in the Corning CellCube module prior to investing in the resources and funding that would be necessary for the larger, more automated CellCube system.



Cat. No.	Description	Qty/Pk	Qty/Cs
3286	E-Cube system kit (without Corning CellCube module)	1	1
3200	Corning CellCube, 10-Stack module	1	2

Accessories

Cat. No.	Description	Qty/Pk	Qty/Cs
430518	1L storage bottle with cap	2	24
401654	45 mm cap with 2 stainless steel ports	1	1
3287	E-Cube tube and fittings replacement kit	1	1

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

For additional product or technical information, visit www.corning.com/lifesciences or call 800.492.1110. Outside the United States, call +1.978.442.2200 or contact your local Corning sales office.

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