

Corning® CellCube® Platform for Closed Systems

CORNING

The Corning CellCube system is a modular, scalable platform for adherent cell culture. It is well-suited to diverse applications ranging from cell and gene therapy to vaccine production. At the core of the system is the Corning CellCube module, consisting of 10, 25, or 100 parallel, polystyrene plates with thin, sealed laminar flow spaces between adjacent plates providing cell growth surface area ranging from 8,500 to 85,000 cm² per module. The basic CellCube system incorporates a peristaltic pump* and bioreactor* to drive continuous recirculation of conditioned media through the CellCube module for efficient gas exchange and nutrient delivery. (*Non-Corning products sold separately).

Our standard, closed system CellCube module designs allow for the flexible set up of CellCube modules and aseptic connection to a bioreactor* (sold separately) with AseptiQuik® and MPC connectors. The modules are sterile and ready-to-use which eliminates the time and complexity of assembling in-house. Closed system manifolds to connect multiple CellCube modules are available or can be custom designed as your process scales.

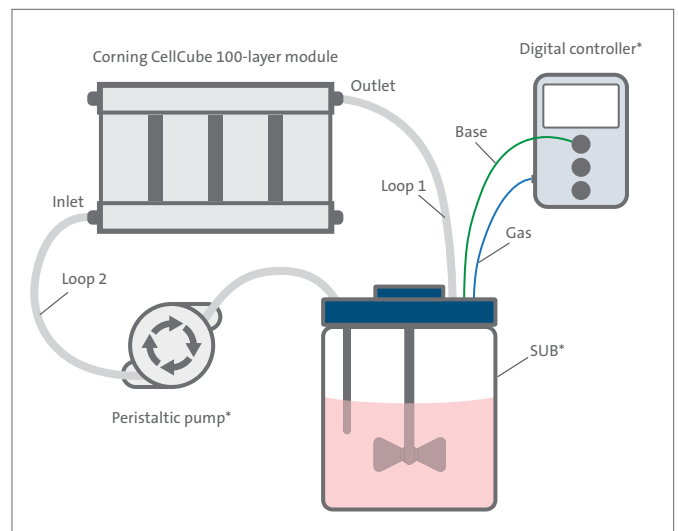
Features and Benefits

- ▶ Multiple modules can be connected in parallel or series enabling higher surface area to transition from research through process development to manufacturing.
- ▶ Available with CellBIND® or Tissue Culture surface treatment on both sides of the plates, doubling the available surface area within the same footprint
- ▶ Encapsulation and endplates made from polycarbonate for strength and long-term reliability, modules are 100% pressure hold tested.
- ▶ Flow control orifice and directors promote even distribution of media across plates in the modules with low differential gradients.
- ▶ Stands and carts are available to design an efficient workflow for your process. Contact your Corning Representative for more information.
- ▶ Non-pyrogenic
- ▶ USP Class VI, Sterility Assurance Level (SAL) of 10⁻⁶

Getting Started

In addition to these resources, applications support is available for your evaluation of the CellCube system. Contact your Corning Representative for more information.

- ▶ Evaluating the Corning CellCube System using a 3L Corning Disposable Spinner Flask in a Cell Culture Incubator Application Note (CLS-AN-751)
- ▶ Corning CellCube Culture System Cell Expansion Protocol Guidelines for Use (CLS-AN-626DOC)



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.

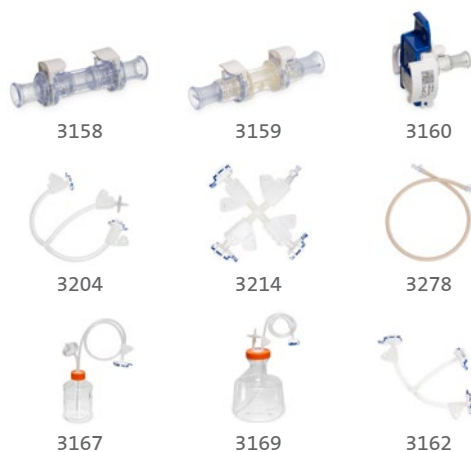
Ordering Information

Corning® CellCube® System Modules

Cat. No.	Description	Number of Layers	Growth Surface Area (cm ²)	Surface Treatment	Qty/Pk	Qty/Cs
3231	CellCube 10-layer module with AseптиQuik® connectors	10	8,500	TC-treated	1	2
3232	CellCube 25-layer module with AseптиQuik® connectors	25	21,250	TC-treated	1	1
3241	CellCube 25-layer module with AseптиQuik® connectors	25	21,250	Corning CellBIND®	1	1
3233	CellCube 100-layer module with AseптиQuik® connectors	100	85,000	TC-treated	1	1
3244	CellCube 100-layer module with AseптиQuik® connectors	100	85,000	Corning CellBIND	1	1

Corning CellCube Accessories

Cat. No.	Description	Qty/Pk	Qty/Cs
3158	Female MPC to Female MPC adapter, sterile	1	5
3159	Male MPC to Male MPC adapter, sterile	1	5
3160	Male MPC to AseптиQuik® G adapter, sterile	1	5
3204	T-tubing manifold, medium filter, 3/8" ID tubing, 2 AseптиQuik® G connectors, sterile	1	4
3214	Cross connector, 3/8" ID tubing, Female MPC to 3 AseптиQuik® G connectors, sterile	1	4
3278	36" Pump tubing, 3/8" ID tubing, 2 Male MPC connectors, sterile	1	4
3162	T-connector, 1/4" ID tubing and 3 AseптиQuik® G connectors, sterile	1	4
3167	1L Storage bottle, 1/4" ID tubing, AseптиQuik® G connector, filter, sterile	1	4
3169	5L Erlenmeyer flask, 1/4" ID tubing, AseптиQuik® G connector, filter, sterile	1	2



Production Cart Technical Specifications

Dimensions (H x W x D)	43 x 34 x 25 in. (110 x 87 x 64 cm)
Cell culture surface area	34 m ² with four CellCube 100 modules
Weight (without Corning CellCube module)	130 lbs. (59 kg)
Shipping weight	150 lbs. (68 kg)



How to Purchase: For specific availability in your region and purchasing options, terms and conditions of sale, customer/product support, and certificates, visit www.corning.com/how-to-buy.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use or general laboratory use only.* Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. These products are not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications. *For a listing of US medical devices, regulatory classifications or specific information on claims, visit www.corning.com/resources.

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