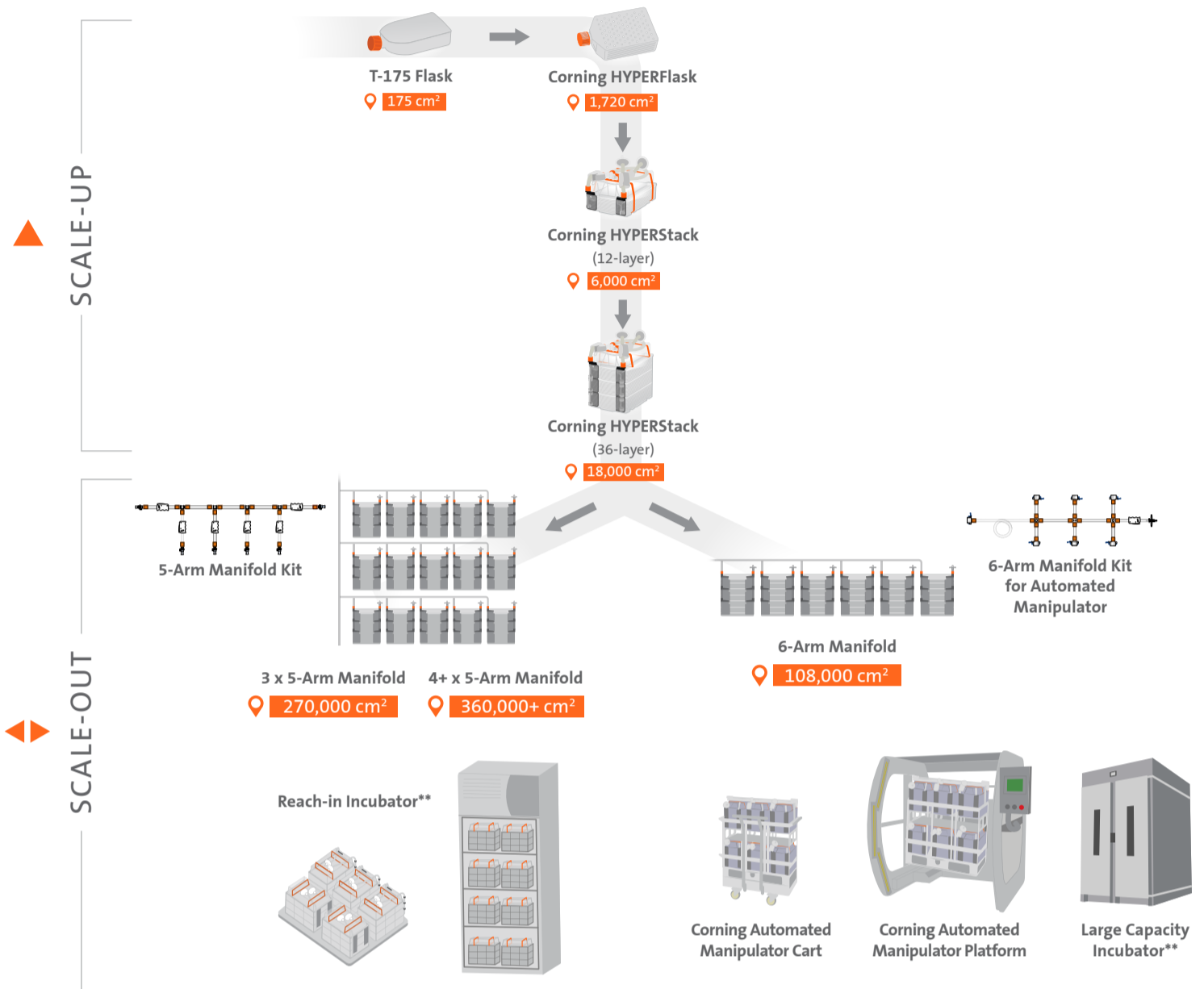


Scaling Adherent Cell Culture with Corning® HYPER Technology

Whether your goal is adherent cell expansion for cell or gene therapy workflows or biopharmaceutical production, Corning HYPER technology enables you to scale from 1,720 cm² to hundreds of thousands of cm² of growth surface area. Using an ultra-thin gas-permeable film, HYPER technology is able to provide up to 10X the growth surface area of a traditional cell culture vessel of comparable footprint. Single-use manifolds, laboratory-standard reach-in incubators, and the Corning Automated Manipulator Platform support your scale-out.

The Road to 300,000 cm² and Beyond



Supporting Your Workflow

Filling and Addition of Components	Expansion and Processing	Harvest and Cryopreservation
 Inoculation Containers	 Automated Manipulator	 Collection Containers
 Manifold Kits	 SUT Bags	 Customizable Processing Tools
 Closed System Accessory Solutions	 Large Capacity Incubator**	 Cryo-preservation Solutions

** Products not sold by Corning

Technical Information

THE PRINCIPLE	THE PROPERTIES	THE APPLICATIONS
<p>Gas exchange across gas-permeable film enables up to 10X gain in cell growth surface area versus vessels of comparable footprint.</p> <p>Traditional (stacked) Cell Culture</p>	<p>HYPERStack 12-layer</p> <ul style="list-style-type: none"> Surface: 6,000 cm² Volume: 1.31L Filled weight (approx.): 2.2 kg Dimensions (L x W): 13.42 x 8.15 in. (342 x 207 mm) Vessel Height: 2.8 in. (71 mm) Height with Accessory Tray: 5.5 in. (140 mm) <p>HYPERStack 36-layer</p> <ul style="list-style-type: none"> Surface: 18,000 cm² Volume: 3.92L Filled weight (approx.): 6.6 kg Dimensions (L x W): 13.42 x 8.15 in. (342 x 207 mm) Height with Accessory Tray: 10.97 in. (278 mm) 	<p>Viral Vector and Vaccine Production</p> <p>Amplifying Adenoviral Particles in the Corning HYPERStack Cell Culture Vessel</p> <p>Download</p> <p>Generating Lentiviral Particles in the Corning HYPERStack Cell Culture Vessel</p> <p>Download</p> <p>Stem Cell Manufacturing</p> <p>Large Scale Expansion of Human Mesenchymal Stem Cells using Corning stemgro® hMSC Medium and Corning CellBIND® Surface HYPERStack Cell Culture Vessels</p> <p>Download</p>

Ordering Information

Corning HYPERFlask® Vessels

Fisher Scientific Cat. No.	Corning Cat. No.	Description	Qty/Pk	Qty/Cs
09-761-22	10020	HYPERFlask M vessel, Corning CellBIND surface, bar coded, sterile	4	4
09-761-23	10034	HYPERFlask M vessel, Corning CellBIND surface, bar coded, sterile	4	24

Corning HYPERStack® Vessels

Fisher Scientific Cat. No.	Corning Cat. No.	Description	Growth Area (cm ²)	Qty/Pk	Qty/Cs
10-320-184	20012	HYPERStack 12-layer cell culture vessel, Corning CellBIND surface	6,000	1	4
10-320-186	20036	HYPERStack 36-layer cell culture vessel, Corning CellBIND surface	18,000	1	2

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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