

# Forge a Path to a More Sustainable Lab Through Process Intensification

Reduce your lab's plastic footprint without compromising efficiency or reliability

The T-75 U-Flask design from Corning reduces plastic use by **23%**

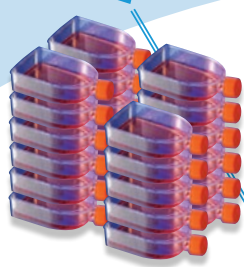


We're all looking for ways to reduce our plastic footprint. You can lessen your impact in the lab a few ways including:

1. Use recyclable products and packaging where possible.
2. Purchase consumables that are manufactured using less plastic.
3. Intensify your production process by increasing scale without dramatically increasing your consumables footprint.

Use Consumables Manufactured with Less Plastic

Intensify Your Production Process



Production process intensification means you can scale up your cell cultures without increasing your lab's consumable and media footprint.

One Corning HYPERFlask® vessel delivers **23X** the growth area of a T-75 flask

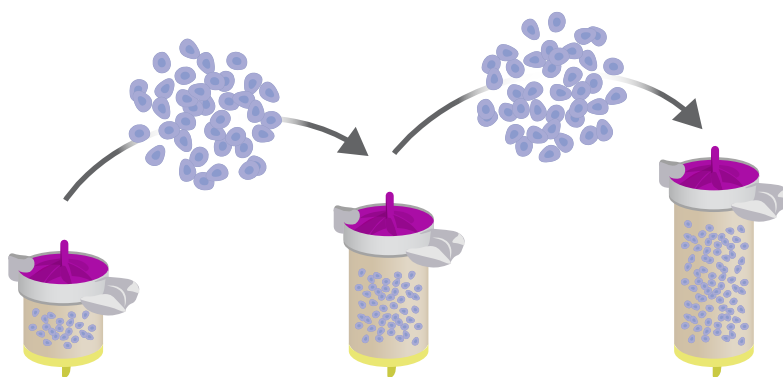


Corning® HYPERStack® 36-layer vessel gives **240X** the growth area of a traditional T-75 flask

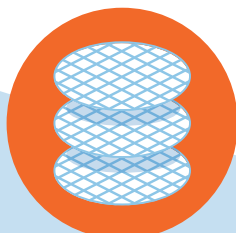


Scale up vs. Scale out

The Corning Ascent® Fixed Bed Reactor (FBR) scales to meet cell growth demands in an automated, compact system. The Ascent FBR's woven mesh substrate supports high-volume cell yield without increasing your footprint or labor.



The Ascent bioreactor is designed to provide linear scalability.



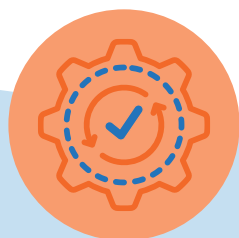
## Grow More Cells

Woven mesh enables uniform fluid flow, cell adhesion and cell growth, resulting in high yield, transfection efficiency, and viable cell harvest.



## Built-in Scalability

Linear scalability from 1 to 1,000 m<sup>2</sup> enables easy scale up from initial optimization to full production with less waste and fewer consumables.



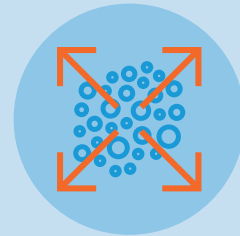
## Easy Prep and Process

Ready-to-use consumables with aseptic connectors coupled with process automation deliver cell product consistency and quality with less waste.



## Standalone Function

Runs outside a laminar flow hood — reducing the need for incubator space.



## Save On Medium

Intensified cell growth surface area is designed for high yield efficiency, which can lead to fewer required runs and potential media savings.

Request your demo to see how a Corning Ascent FBR system, HYPERFlask or HYPERStack vessel could support process intensification.

[www.corning.com/AscentFBR](http://www.corning.com/AscentFBR)

# CORNING

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