XIOGENIX

Cell & Gene Therapy Equipment

CG11042024

OUR JOURNEY

The Xiogenix Story

Founded in 2001 as a family-owned business, Xiogenix began by manufacturing steel rule dies for industries like printing and packaging. We soon expanded into biologic cutting dies and tissue processing equipment for the regenerative medicine field. Today, we provide innovative solutions in cell and gene therapy, including fill & finish and cell homogenization. With over 200 pieces of equipment in use worldwide, we prioritize safety, efficiency, and compliance, while delivering exceptional service and single-use systems. Driven by innovation and customer satisfaction, we are dedicated to advancing regenerative medicine and beyond.

Collaborate With Us!

Partner with us to bring your vision to life. Reach out to our team to explore tailored solutions that meet your specific needs.

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OUR PRODUCTS

ATHENA™

Consistent Cooling and Agitation

ARES™ X20

Fill & Finish Solution

Patent Pending: The ARES™ X20 is protected under patent pending status in the United States.

Actual products may vary slightly from digital renderings.

ATHENA™

Consistent Cooling & Agitation

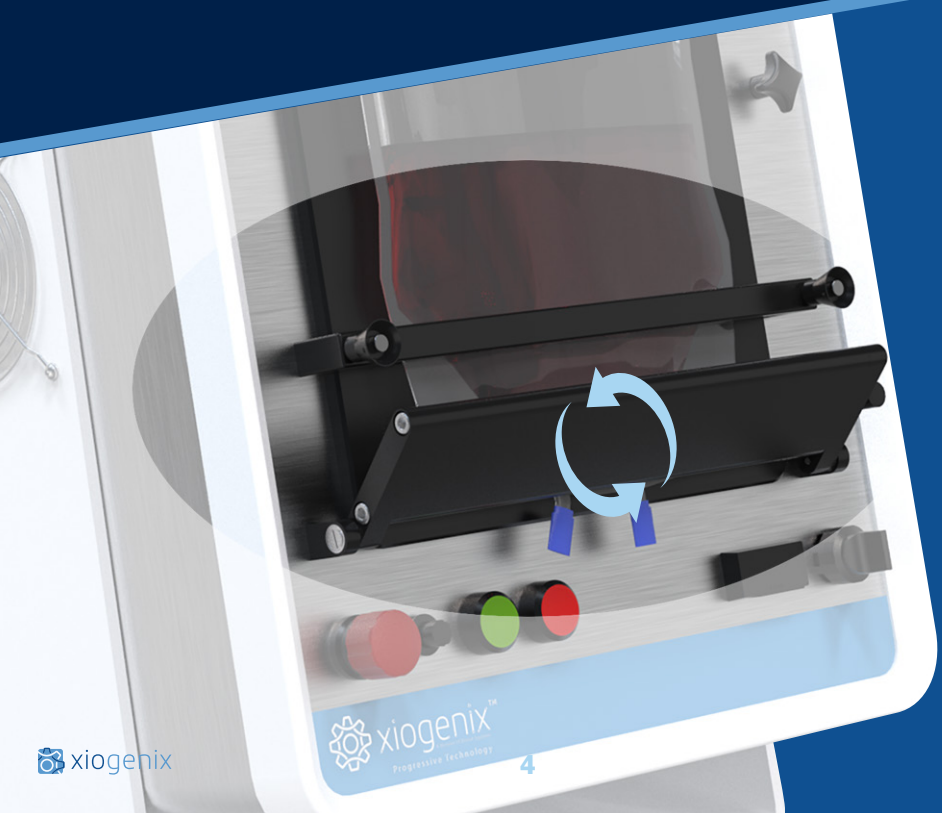
Athena™ ensures even cooling and consistent homogenization of your product. It's designed to integrate seamlessly with manual or semi-automated filling processes that lack automated cooling capabilities. Instead of relying on manual methods like cooling packs, Athena™ provides a reliable and automated solution to replace manual methods.

Compact Footprint

1' x 1' (30.48cm x 30.48 cm), designed to fit within a Biological Safety Cabinet (BSC).

Cooling & Agitation

Integrated 2-8°C cooling plate and paddle mixer, supporting various bag sizes.

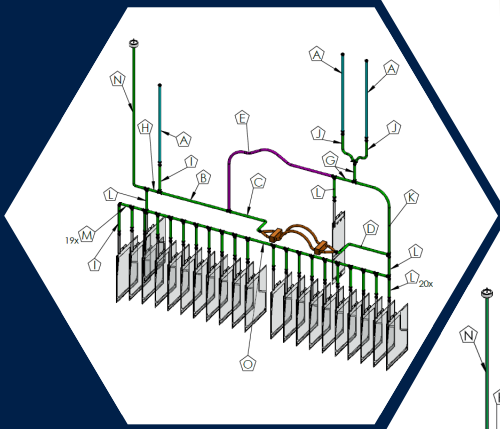


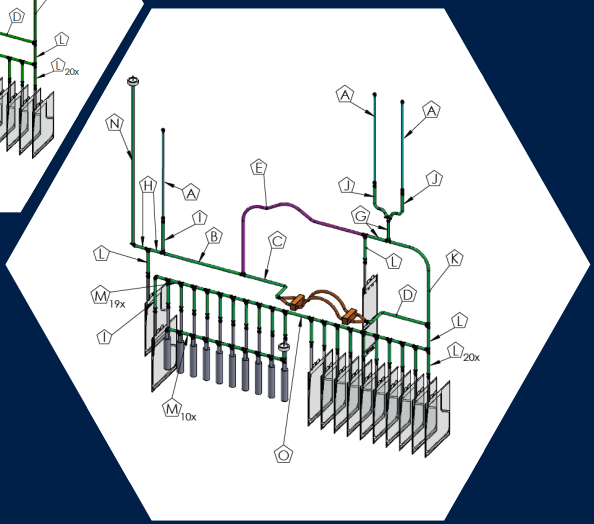

xiogenix™
Progressive Technology

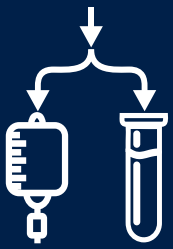
ARES™ X20

Fill & Finish Solution

The ARES™ X20 is the result of collaboration with industry stakeholders to address diverse processing needs. This versatile system offers adaptability and supports various final product configurations.



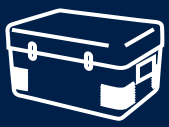




Dual Filling Capability
Fill both bags and vials.

Container Flexibility
Single-Use Manifold offers flexibility in using both bags and vials, with configurable container quantities and a variety of size options.

Closed System
Designed to isolate the internal solution from the external environment, allowing for operability in standard cleanroom environments without the need for a biosafety cabinet.



Compact, Efficient Design
A table-top unit with 20 fill slots that maximizes throughput while minimizing footprint (40”x20” / 101.6cm x 50.8cm).

High Throughput
Capable of filling up to 80 product containers within a single batch.

Cooling & Agitation
Integrated 2-8°C cooling plate and paddle mixer, supporting various source material bag sizes.

Accurate Filling
Validated to fill volumes from 1ml to 100ml with an error margin of ±10%.

Formulation Flexibility
Weld up to two different media materials, such as cryoprotectant or buffer solution, to automate formulation into the source bag.

ARES™ X20

Process Flow

Weld Source Material and Formulation Media:
Securely weld the source material and formulation media to the manifold.

Setup the Manifold:
Attach the manifold to the system.

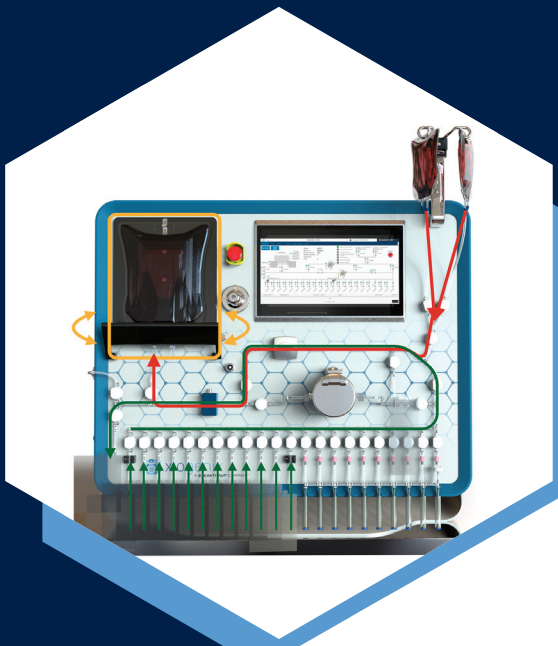
Automated Formulation:
The system automates the formulation of media into the source material.

Air Evacuation:
The system has the ability to remove air from bags in an automated fashion for the distribution into the FDP containers.

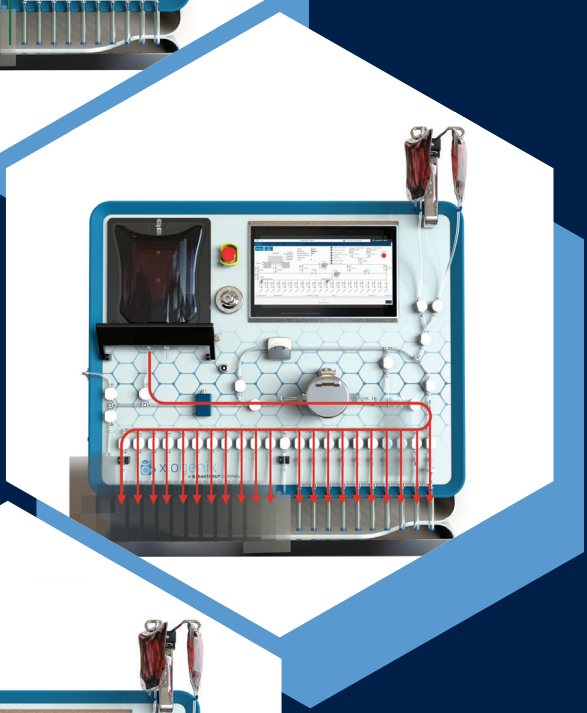
Fill Sequence:
The source material is serially distributed into the FDP containers.

Post Fill Purge Sequence:
The system automatically purges the tubing to recover product, minimizing waste.

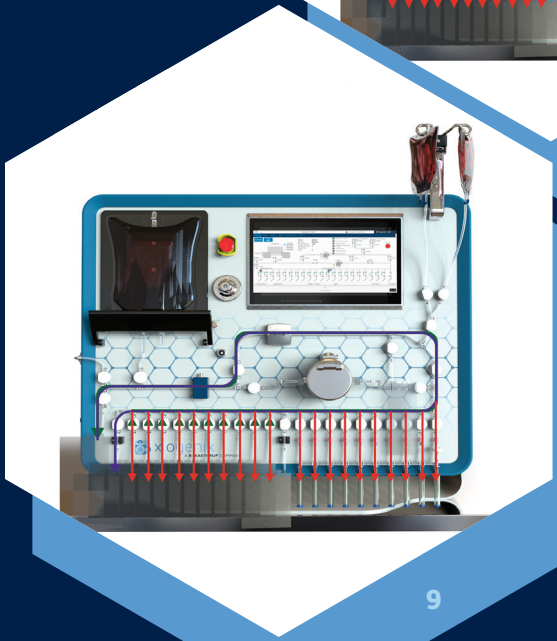
Post Fill Air Management:
If required, system has the capability to remove air following the fill sequence.



Legend:
- Cooling/Agitation
- Formulation
- Air Evacuation



Legend:
- Fill Sequence



Legend:
- Recoverable Prime Volume
- Automated Line Drop Clearing
- Air Evacuation

ARES™ X20

Advanced Features

Automated Cooling & Agitation

Ensures precise temperature control and homogenization of the source material.

Formulation Flexibility

Weld up to two different media materials, such as cryoprotectant or buffer solution, to automate formulation into the source bag.

Air Evacuation

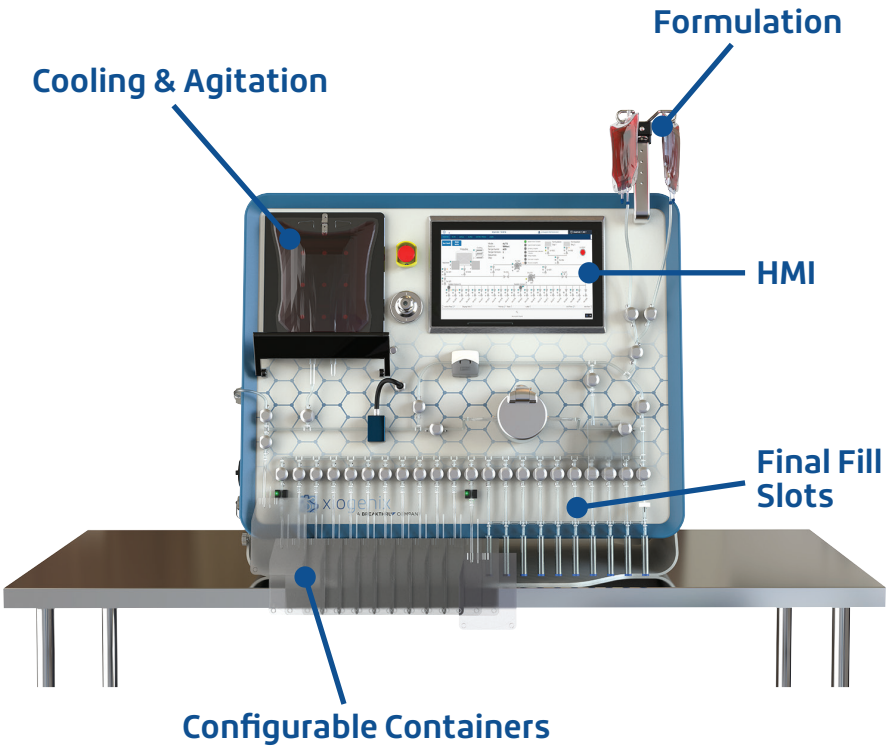
Minimizes residual air by removing air before the filling sequence.

Efficient Serial Filling

Fills one container at a time across 20 slots, with an extended configuration option to increase capacity beyond 20 containers.

Fast Filling Process

Designed to minimize cryoprotectant contact time by increasing the efficiency of the formulation and final filling processes, capable of completing the entire process in under 5 minutes.



Recoverable Prime Volume

Automated purging feature ensures that all fluid within the lines (approx. 17ml) is recoverable.

Air Management

Semi-automated modes for removing excess air and burping bags post-fill. Automated and semi-automated options for removing air before and after a filling sequence.

xiogenix

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