

# Freezing Shells

*Provide added stability to Aramus™ single-use bag assemblies*

Entegris offers flexible, disposable containment solutions for single-use biopharmaceutical applications. These solutions allow you to protect and store your high-value process solutions with reduced risk of product loss, contamination, and compromised quality. Expanding our portfolio further, we offer freezing shells for use with Aramus single-use bag assemblies.

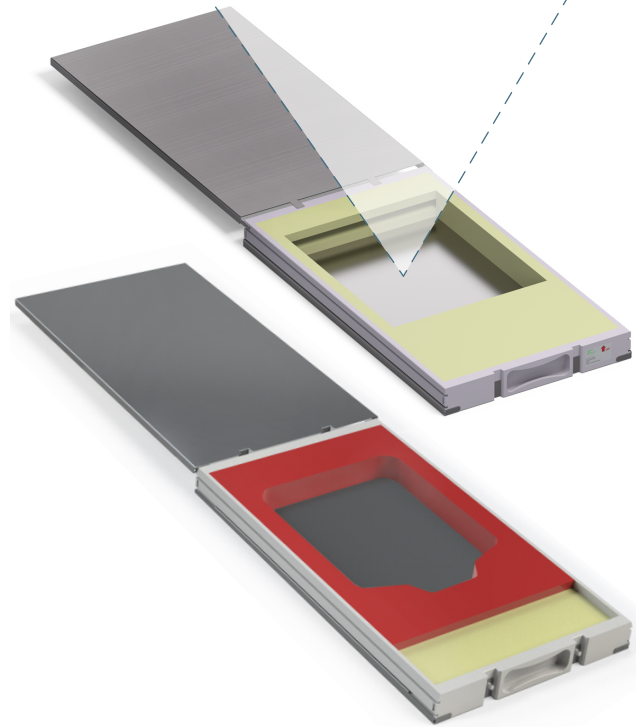
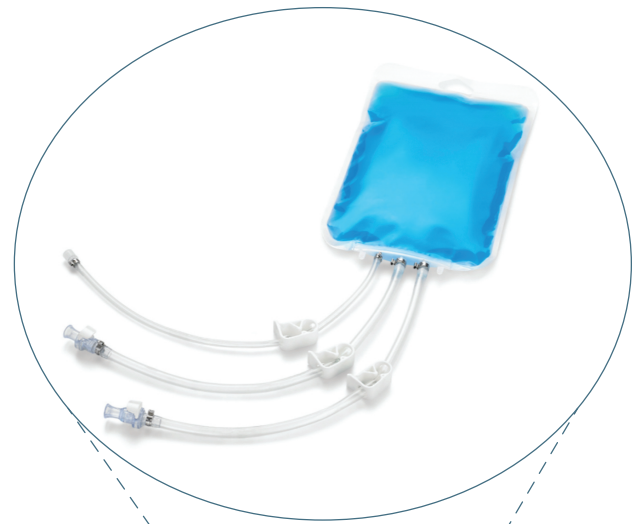
## FREEZING SHELL

Made from high-quality stainless steel and heavy-duty plastic material, the freezing shells provide greater bulk drug substance (BDS) protection during handling, more consistent freezing/thawing, and reduced storage density. The robust, tamper-evident construction reduces tension in the structure of the single-use bag and offers shock absorbent protection.



## APPLICATIONS

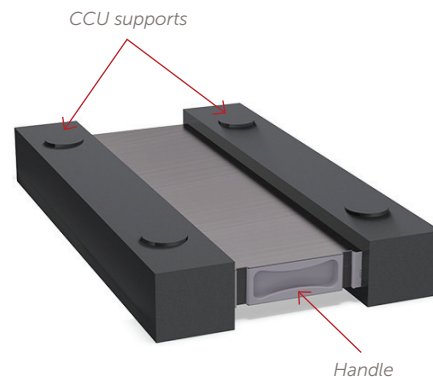
- Bulk drug storage and shipment
- Protection and storage of high value intermediates
- Bulk product fill
- Dry ice transport



*Freezing shell protects filled Aramus bag assembly.*

## CRYO CONTROL UNIT SUPPORTS

Cryo control unit (CCU) supports are available for use with the freezing shells. The CCU facilitates controlled freezing in standard static or blast freezers.



## FEATURES & BENEFITS

<b>Stainless steel top and bottom construction</b>	Enables quick and uniform freezing and thawing Provides maximum durability and strength, protecting high-value process fluids from product loss
<b>Robust, closed design</b>	Provides tamper-evident protection of valuable BDS
<b>High density design</b>	Reduces required capacity, saving valuable freezer space
<b>Adaptable to all 2D single-use bags</b>	Allows users to keep their freeze/ship/thaw process, preventing process interruptions Accommodates partial fill volumes, increasing process flexibility
<b>Soft, 3D foam inlays</b>	Offers complete immobilization of single-use bag assemblies and dampening in case of vibration, further protecting sensitive compounds
<b>Single use product</b>	Provides convenient handling and is easy to recycle

## SPECIFICATIONS

<b>Aramus bag size</b>	<b>1 L</b>	<b>2 L</b>	<b>5 L</b>	<b>10 L</b>	<b>20 L</b>
<b>Maximum fill volume</b>	0.9 L	1.7 L	3.5 L	6.5 L	11.0 L
<b>Freezing shell part number</b>	SU-FS-0001-01	SU-FS-0002-01	SU-FS-0005-01	SU-FS-0010-01	SU-FS-0020-01
<b>Freezing shell weight</b>	1.96 kg (4.31 lbs)	2.83 kg (6.23 lbs)	4.45 kg (9.79 lbs)	6.13 kg (13.49 lbs)	8.73 kg (19.21 lbs)
<b>Freezing shell dimensions</b>	208 mm x 483 mm x 37 mm (8.2" x 13.7" x 1.5")	288 mm x 533 mm x 37 mm (11.3" x 21" x 1.5")	358 mm x 643 mm x 52 mm (14.1" x 25.3" x 2.0")	408 mm x 703 mm x 70 mm (16" x 27.7" x 2.0")	503 mm x 883 mm x 70 mm (19.8" x 34.8" x 2.0")

Contact Entegris technical support if you have questions regarding this information, and to confirm you have the most up-to-date version. Maximum fill volumes are dependent on application, please contact Entegris to determine the optimal fill for your specific needs. Entegris also offers a range of cryo cassettes for volumes <1L, see our cassettes datasheet for information.

## ORDERING INFORMATION

### Freezing Shell

Part number	Compatible Aramus bag assembly
SU-FS-0001-01	1 L
SU-FS-0002-01	2 L
SU-FS-0005-01	5 L
SU-FS-0010-01	10 L
SU-FS-0020-01	20 L

### Freezing Kits\*

Part number	Compatible Aramus bag assembly
SU-FK-0001-01	1 L
SU-FK-0002-01	2 L
SU-FK-0005-01	5 L
SU-FK-0010-01	10 L
SU-FK-0020-01	20 L

\*Kits comprise a freezing shell and CCU for that specific volume.

### Cryo Control Unit (CCU)

Part number	Compatible Aramus bag assembly	Quantity
SU-CC-0001-01	1 L	2
SU-CC-0002-01	2 L	2
SU-CC-0005-01	5 L	2
SU-CC-0010-01	10 L	2
SU-CC-0020-01	20 L	2

### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](http://entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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