

# Cryopak<sup>®</sup>

Pre-Qualified Shipping Solutions

## CRYOCUBE

### REUSABLE PACKAGING SYSTEMS

CryoCube is a versatile series of pre-qualified temperature assurance shipping solutions that maintain temperatures up to 120 hours. These shipping systems are reusable and offered in different payload sizes.

Using our innovative cube panels and refrigerant bricks, CryoCube offers options for both 2-8°C and 15-25°C solutions. The packout weight and dimensions were designed to optimize shipping, distribution and return logistics, while the reduced components allow for quick assembly.

#### AVAILABLE IN THE FOLLOWING INSULATION CATEGORIES:

- Fabricated Expandable Polystyrene (EPS)
- Molded EPS
- Polyurethane (PUR)
- Vacuum Insulated Panels (VIP)



## DESIGN & CONFIGURATIONS

Each CryoCube design is tested against some of the toughest profiles to ensure optimal performance. If you want to compare the CryoCube performance to your specific profile, we offer thermal modeling simulation.

Some models use seasonal packouts in order to streamline your resources. This approach is more cost-effective since it allows you to optimize your packout by making it lighter and smaller, but with increased payload space. Since it uses less components than a universal packout, it's easier to assemble and uses simpler conditioning methods. Seasonal packouts also work better in climates where seasons have vastly different temperatures.

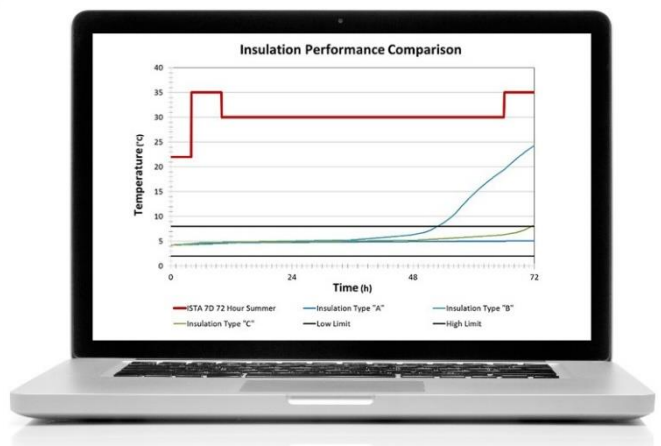
Some models on the other hand use universal packouts in order to bring you peace of mind. This approach works well in relatively temperate climates by eliminating the multiple conditioning methods associated to seasonal packouts.

## THERMAL MODELING SIMULATION

We utilize Ansys Fluent, a **simulation software**, to analyze fluid flow and/or heat transfer in a virtual environment. It's the most powerful computational fluid dynamics software tool available in the world. This software is used by universities, research centers, and in virtually all industries worldwide.

### Advantages:

- **Cost effective:** no prototype or inventory required
- **Fast:** testing can be done in a matter of days
- **Optimized packout:** test multiple configurations and choose the best option, based on your requirements



When working with Cryopak, you get access to our team of expert cold chain engineers that can help create a solution to satisfy your exact needs.

## FABRICATED EPS

Made of expanded polystyrene (EPS), these coolers have efficient insulation and are lightweight. This cost-effective solution also reduces your shipping costs by reducing the total weight of your shipments. It maintains a controlled internal environment for up to 66 hours.

### Advantages:

- Available in both 2-8°C and CRT configurations
- Maintains temperature range up to 66 hours
- Lightweight
- Easy to store
- Handles for ease of transport
- Economical option ideal for shorter duration shipments



### CRYOCUBE FABRICATED EPS LINE

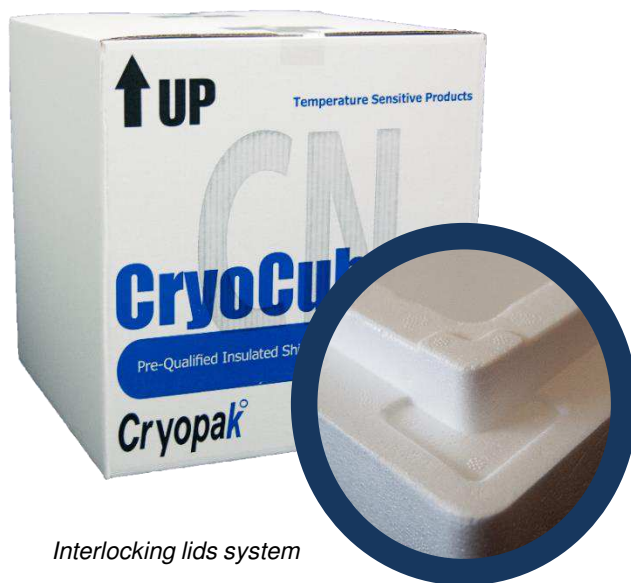
Item Number	Product Name	Packout Type	Duration (Hours)	Corrugate ID L x W x D (in)	Payload ID L x W x D (in)	Weight (lbs)	Wall (in)	Pallet Qty
FCUB00016	CryoCube EPS 6-3R, 36	Universal	36 Summer/ 48 Winter	14 x 14 x 14	6 x 6 x 6	11.12	3	45
FCUB00018	CryoCube EPS 10-3R, 48	Universal	60 Summer/ 66 Winter	18 x 18 x 18	10 x 10 x 10	25.79	3	16
FCUB00024	CryoCube EPS 10-3R, 48 CRT	Seasonal	48 Summer/ 48 Winter	18 x 18 x 18	10 x 10 x 10	25.79	3	16
FCUB00020	CryoCube EPS 12-2R, 48	Universal	48 Summer/ 48 Winter	18 x 18 x 18	12 x 12 x 12	36.42	2	16
FCUB00023	CryoCube EPS 12-2R, 48 CRT	Seasonal	48 Summer/ 48 Winter	18 x 18 x 18	12 x 12 x 12	36.42	2	16
FCUB00035	CryoCube EPS Double 12-3R, 48	Universal	48 Summer/ 48 Winter	31.25 x 20.25 x 20.25	26 x 12 x 12	50	3	8

## MOLDED EPS

Made of expanded polystyrene (EPS), these cost-effective molded coolers have efficient insulation and are lightweight. It reduces your shipping costs by reducing the total weight of your shipments. Using a tongue and groove design to seal the lid with the base, it maintains a controlled internal environment for up to 96 hours. It is available in corrugated, plastic corrugated or our rotomold case.

### Advantages:

- Available in both 2-8°C and CRT configurations
- Maintains temperature range up to 96 hours
- Lightweight
- Excellent thermal protection and shock absorption



*Interlocking lids system*

### CRYOCUBE MOLDED EPS LINE

Item Number	Product Name	Packout Type	Duration (Hours)	Corrugate ID L x W x D (in)	Payload ID L x W x D (in)	Weight (lbs)	Wall (in)	Pallet Qty
FCUB00063	CryoCube Mold 6-2R, 30	Universal	30 Summer	11.87 x 11.87 x 11.56	6 x 6 x 6	9.04	2	72
FCUB00064	CryoCube Mold 6-2R, 54 CRT	Universal	54 Summer/72 Winter	11.87 x 11.87 x 11.56	6 x 6 x 6	9.04	2	72
FCUB00073	CryoCube Mold 6-3R, 60	Universal	60 Summer/96 Winter	14 x 14 x 14	6 x 6 x 6	11	3	45
FCUB00074	CryoCube Mold 6-3R, 54 CRT	Universal	72 Summer/54 Winter	14 x 14 x 14	6 x 6 x 6	11	3	45
FCUB00051	CryoCube Mold 10-2E, 48	Seasonal	48 Summer/96 Winter	16.25 x 16.25 x 16.81	10 x 10 x 8	22.85	2	30
FCUB00052	CryoCube Mold 10-3E, 60	Seasonal	60 Summer/96 Winter	18.5 x 18.5 x 18.5	10 x 10 x 8	25.1	3	16
FCUB00065	CryoCube Mold 10-2R, 34	Universal	34 Summer/72 Winter	16.25 x 16.25 x 16.81	10 x 10 x 10	23	2	30
FCUB00066	CryoCube Mold 10-2R, 60 CRT	Seasonal	72 Summer/60 Winter	16.25 x 16.25 x 16.81	10 x 10 x 10	23	2	30
FCUB00067	CryoCube Mold 10-3R, 50	Universal	50 Summer/72 Winter	18.5 x 18.5 x 18.5	10 x 10 x 10	25.26	3	16
FCUB00068	CryoCube Mold 10-3R, 72 CRT	Seasonal	72 Summer/72 Winter	18.5 x 18.5 x 18.5	10 x 10 x 10	25.26	3	16
FCUB00057	CryoCube Mold 12-2E, 54	Seasonal	54 Summer/96 Winter	18.875 x 18.875 x 19.0625	12 x 12 x 8	32.175	2	16
FCUB00069	CryoCube Mold 12-2R, 45	Universal	45 Summer/72 Winter	18.5 x 18.5 x 18.5	12 x 12 x 12	33.24	2	16
FCUB00070	CryoCube Mold 12-2R, 72 CRT	Seasonal	72 Summer/72 Winter	18.5 x 18.5 x 18.5	12 x 12 x 12	33.24	2	16

## POLYURETHANE (PUR)

Polyurethane (PUR) provides outstanding thermal conductivity, making it an ideal choice for protecting temperature-sensitive shipments. In addition to the low heat conductivity, PUR is rugged and lightweight, making it ideal for return logistics. These shippers effectively maintain a controlled internal environment for up to 96 hours.

### Advantages:

- Available in both 2-8°C and CRT configurations
- Maintains temperature range up to 96 hours
- Strong thermal protection
- Ideal for return logistics programs



*Available in corrugated, plastic corrugated or rotomold case*

### CRYOCUBE PUR LINE

Item Number	Product Name	Packout Type	Duration (Hours)	Corrugate ID L x W x D (in)	Payload ID L x W x D (in)	Weight (lbs)	Wall (in)	Pallet Qty
FCUB00053	CryoCube PUR 10-3E, 72	Seasonal	82 Summer/ 72 Winter	18.375 x 18.375 x 18.5625	10 x 10 x 8	27.85	3	16
FCUB00058	CryoCube PUR 12-2E, 62	Seasonal	62 Summer/ 72 Winter	18.875 x 18.875 x 19.0625	12 x 12 x 8	34.675	2	16
FCUB00059	CryoCube PUR 12-3E, 90	Seasonal	90 Summer/ 90 Winter	20.375 x 20.375 x 20.5625	12 x 12 x 8	38.175	3	16
FCUB00055	CryoCube PUR 10-3R, 72	Universal	72 Summer/ 72 Winter	18.5 x 18.5 x 18.5	10 x 10 x 10	27.88	3	16
FCUB00056	CryoCube PUR 10-3R, 96 CRT	Seasonal	96 Summer/ 96 Winter	18.5 x 18.5 x 18.5	10 x 10 x 10	27.88	3	16
FCUB00071	CryoCube PUR 12-2R, 66	Universal	66 Summer/ 96 Winter	18.5 x 18.5 x 18.5	12 x 12 x 12	36.38	2	16
FCUB00072	CryoCube PUR 12-2R, 96 CRT	Seasonal	72 Summer/ 72 Winter	18.5 x 18.5 x 18.5	12 x 12 x 12	36.38	2	16
FCUB00061	CryoCube PUR 12-3R, 82	Universal	82 Summer/ 96 Winter	20.375 x 20.375 x 20.5625	12 x 12 x 12	39.39	3	16
FCUB00062	CryoCube PUR 12-3R, 96 CRT	Seasonal	96 Summer/ 96 Winter	20.375 x 20.375 x 20.5625	12 x 12 x 12	39.39	3	16

## VACUUM INSULATED PANELS (VIP)

Vacuum insulated panels (VIP) provide the highest thermal insulation quality available. With increased duration capabilities and a rugged plastic corrugated outer shipper for increased reusability, the CryoCube VIP is the most robust option, maintaining a controlled internal environment for up to 120 hours.

### Advantages:

- Available in both 2-8°C and CRT configurations
- Maintains temperature range up to 120 hours
- Insulated panels protected with plastic wrap and foam padding for increased durability
- Security closure for use with lockout-tagout (LOTO) seals
- Highly reusable
- Ideal for return logistics programs



### CRYOCUBE VIP LINE

Item Number	Product Name	Packout Type	Duration (Hours)	Corrugate ID L x W x D (in)	Payload ID L x W x D (in)	Weight (lbs)	Wall (in)	Pallet Qty
FCUB00017	CryoCube VIP 6-1R, 72	Universal	72 Summer/ 96 Winter	10.5 x 10.5 x 10.5	6 x 6 x 6	12.9	1	84
FCUB00019	CryoCube VIP 10-1R, 96	Universal	96 Summer/ 96 Winter	14.5 x 14.5 x 14.5	10 x 10 x 10	29.9	1	16
FCUB00022	CryoCube VIP 12-1R, 120	Universal	120 Summer/ 120 Winter	16.5 x 16.5 x 16.5	12 x 12 x 12	41.6	1	16

## CRYOSHELL BY CRYOPAK

All our CryoCube solutions can be supplied in the CryoShell, a rotomolded protective shell designed to increase reusability of thermal packaging solutions. Easy to clean and sanitize, the CryoShell is impact resistant and easy-to-use: simply insert the assembled packout inside the CryoShell.

### Advantages:

- Embossed and engraved feet to easily slide and stack
- Space dedicated to shipping label on lid
- Handles with 1" depth for ease of transportation
- High strength latches to secure shipment
- Space dedicated to barcode label on front of the CryoShell
- Fully recyclable at the end of its lifecycle





## COLD CHAIN MADE SIMPLE

**We make it our business to maintain  
the integrity of your products.**

### Contact us

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