

# **PASSIVE TEMPERATURE CONTROL PACKAGING FOR THE COLD CHAIN SECTOR**



# TEMPACK

## ENABLING COLD CHAIN EXCELLENCE

---

Tempack, by CSafe, is a leading global provider in the isothermal and refrigerated packaging sector. Our primary activity focuses on the manufacture, development and qualification of packaging solutions for transporting and distributing essential, temperature-sensitive goods, with a special focus on food products, which require a cold chain delivery.

The levels of innovation employed in our packing solutions guarantee an unbroken cold chain for perishable, fresh, and frozen products, such as fruits, vegetables, dairy, meat and

seafood, as well as chemical and pharmaceutical products throughout their transit. To accommodate such diversity, our own product range is highly extensive.

With a commitment to rigorous testing and qualification, we tailor solutions to perform in the kind of demanding environments to which our customers' stock is often exposed. Despite an exemplary track record with results, you'll still find us well-adjusted in terms of costs.

## OUR APPROACH IN MINIMISING TEMPERATURE EXCURSIONS

---



Shipping lane  
temperature analysis



System evaluation  
and selection



Shipping lane  
temperature simulation

### CUSTOMER



Laboratory  
qualification



Implementation  
and training



On-going temperature  
management support

# MARKET SEGMENTS

## PRODUCTS THAT TICK YOUR BOXES

---

Moving temperature-sensitive goods safely through the cold chain is an important – and sometimes critical – aspect of business for many industry sectors. The knowledge, management and precision needed to guarantee constant temperature control in transit for fresh and frozen food products, chemicals, biological or pharmaceutical products, for example, cannot be overstated. Given the valuable nature of these goods (many of them are destined for human consumption), extremely rigorous demands are put on the transportation environments they experience through the entire logistics process. Preserving product integrity is an utmost priority, both in terms of distribution and subsequent sales.



### DISTRIBUTION/ FULFILMENT CENTRES

Food distributors are responsible for making sure that perishable, fresh, and frozen products remain at the proper temperature throughout the distribution process. To achieve this, these centres use thermal packaging solutions and temperature monitoring systems to create a perfect temperature-controlled environment for each type of product and/or delivery.

The use of passive thermal shippers contributes to waste reduction, product shelf life extension, and spoilage prevention. Distribution and fulfilment centres make sure that consumers have access to high-quality, secure, and sustainable food products.



### LOGISTICS

We're well versed in helping logistics companies and their 3PL counterparts manage and deliver the kind of superlative cold chain services. Freight forwarders and specialist couriers have access to a complete range of products that perform in frozen, chilled and ambient states, for shorter hops or longer haul deliveries.

To cater for the individual characteristics of different temperature-sensitive goods, Tempack works in close collaboration with customers to develop all manner of customised solutions.

We also provide an extensive range of standardised options for use when appropriate. Variations in format and operational temperature ranges ensure transit autonomy and allow industry compliance and customer protocols to be comfortably met. This level of reliability throughout the cold chain offers better product quality control and a significant reduction in associated costs.



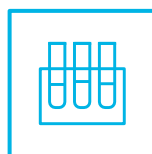
### FOOD RETAIL

Food retailers play a pivotal role in the last mile delivery of fresh and frozen food products. A breach in the cold chain can compromise the quality of the goods for human consumption, leading to a loss of product integrity and potentially severe consequences for consumer health. Moreover, it can also result in significant financial losses for the retailers themselves. Therefore, it is crucial to monitor and maintain the cold chain throughout all stages, ensuring the delivery of products in perfect condition to the end consumers and upholding the reputation of their business.



### ECOMMERCE

Tempack has cultivated a product range for this industry that is second to none. Know-how accumulated over more than two decades has gone into a range of e-commerce food thermal packaging solutions which has been conceived and tested for every imaginable delivery and collection method choice.



### LIFE SCIENCES

Many of the world's leading Life Sciences companies trust Tempack to supply them with products that support their temperature control needs, helping ensure product efficacy and patient safety.

# INSULATED PACKAGING SOLUTIONS THAT ENABLE COLD CHAIN EXCELLENCE



## SINGLE-USE PACKAGING

Tempack's single-use, temperature control packaging range that offers agro-food companies, food retailers, logistics, chemical and pharmaceutical companies a solution for their every conceivable shipping requirement.



## REUSABLE PACKAGING

In an age where sustainability features ever more prominently as a key corporate objective, the Tempack range of reusable insulated shippers, bags and pallet shippers plays a pivotal part in our portfolio.



## CONTAINERS FOR VEHICLES

Adapting an existing vehicle, whether it be conventional or electric, into a 2- or 3-chamber, multi-temperature delivery vehicle can now be done at the drop of a hat.



## LIFE SCIENCES PACKAGING

Guaranteeing the integrity in transit of temperature-sensitive products such as cells and tissues is a zero-tolerance business. Tempack has a range of isothermal biological packaging that has been conceived and tested for precisely this purpose.



## COLD PACKS

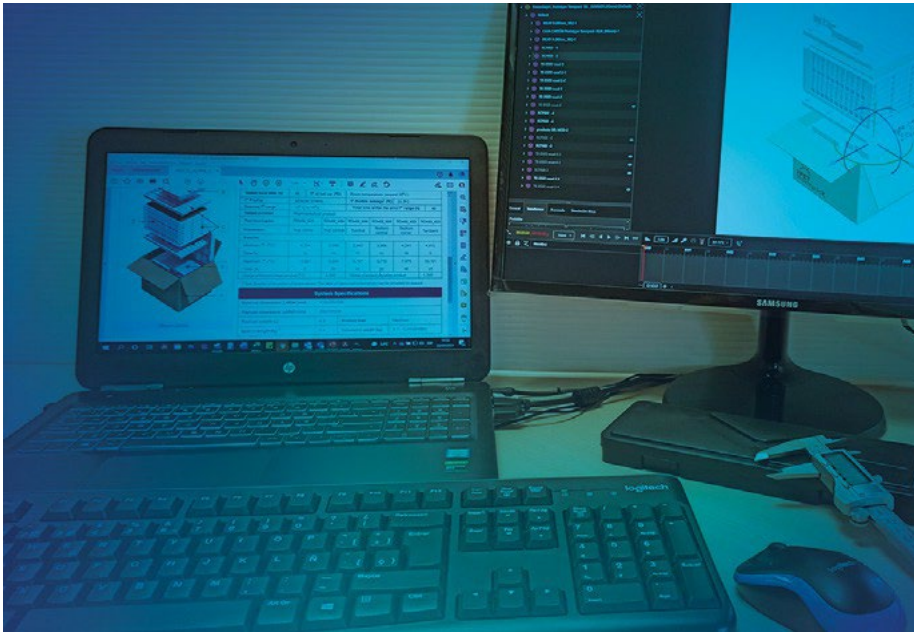
The Tempack range of cold packs offers a host of reliable, safe, high-performance alternatives. Our pre-qualified cooling packs come in flexible and rigid systems, ranging from the inexpensive to the smart.



## SPECIALISED SERVICES

Tempack provides global specialised services that will help to solve your cold chain distribution challenges. From tailored packaging systems to technical consultation our experienced teams will evaluate your requirements and provide the most suitable solution to meet your needs.







# SINGLE-USE PACKAGING

PET Thermpack



Greenin



Lipbox



## **PET THERMPACK** **ECOLOGICALLY AND ECONOMICALLY FRIENDLY**

PET Thermpack is another innovative product in our single-use range that puts sustainability at the top of the agenda.

This isothermal shipper is made from 100% recycled Polyethylene Terephthalate (or PET). The substance is prized for its durability and thermo-stability – PET Thermpack will keep chilled temperatures constant for up to 48 hours, without the excessive use of refrigerant packs. Its lightweight composition means there are also cost savings to be had on shipping.

## **GREENIN** **CURBSIDE-RECYCLABLE**

Recycled cotton inlays are the focal point of this sustainable, single-use shipper. They offer superb insulation for a host of temperature-sensitive goods. Together with its cardboard exterior, the Greenin SU package is curbside-recyclable. This isothermal shipper is qualified to maintain chilled or frozen temperature ranges for up to 48 hours. Yet not only is it an affordable solution, it is collapsible and saves on storage space and shipping costs.

## **LIPBOX** **MINIMISES WEIGHT, MAXIMISES PERFORMANCE**

This high-performance temperature control shipper is often heralded for its outstanding thermal protection, despite its lack of mass; historically it has been the “jewel” in our single-use isothermal boxes range. Lipbox guarantees cold chain autonomy while greatly reducing total packaging volume, a fact that is never lost on clients. A whole gamut of temperature-sensitive products can be shipped at chilled or ambient temperatures in conventional transport environments for up to 48 hours.



# SINGLE-USE PACKAGING



Internal Volume (Litres)  
**UP TO 54**



Temperature Range  
**CHILLED, FROZEN, AMBIENT**



Duration (Hours)  
**UP TO 48**

## PRODUCT SPECIFICATION

### PET THERMPACK (Pharma version)

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	EXTERNAL DIMENSIONS (MM) L x W x H	THICKNESS (MM)	MIN. CONSUM. (UNITS)
KIT PET THERMPACK 14L	14	Chilled / Ambient (Up to 48)	300 x 200 x 230	385 x 285 x 320	40	400
KIT PET THERMPACK 24L	24	Chilled / Ambient (Up to 48)	330 x 260 x 275	415 x 345 x 365	40	360
KIT PET THERMPACK 37L	37	Chilled / Ambient (Up to 48)	405 x 305 x 300	490 x 390 x 391	40	240
KIT PET THERMPACK 54L	54	Chilled / Ambient (Up to 48)	460 x 345 x 340	545 x 430 x 431	40	200

### PET THERMPACK (Food version) \*

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	EXTERNAL DIMENSIONS (MM) L x W x H	THICKNESS (MM)	MIN. CONSUM. (PALLET)
KIT PET THERMPACK 12L	12	Chilled / Ambient (Up to 48)	300 x 200 x 200	350 x 250 x 260	20	5
KIT PET THERMPACK 18L	18	Chilled / Ambient (Up to 48)	330 x 235 x 230	370 x 285 x 290	20	5
KIT PET THERMPACK 30L	30	Chilled / Ambient (Up to 48)	400 x 300 x 250	450 x 350 x 310	20	6
KIT PET THERMPACK 61L	61	Chilled / Ambient (Up to 48)	420 x 325 x 450	472 x 325 x 515	20	6

### GREENIN

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	EXTERNAL DIMENSIONS (MM) L x W x H	THICKNESS (MM)	MIN. CONSUM. (UNITS)
KIT GREENIN 18	18	Chilled / Frozen (24-48)	305 x 215 x 280	378 x 288 x 365	30	512
KIT GREENIN 53	53	Chilled / Frozen (24-48)	400 x 305 x 430	472 x 378 x 515	30	Inquire

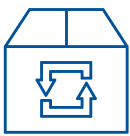
### LIPBOX

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	THICKNESS (MM)	FEFCO	MIN. CONSUM. (UNITS)
FXPS 3-02	3	Chilled / Ambient (24-48)	205 x 118 x 110	5	F204	1,000
FXPS 7-03	7	Chilled / Ambient (24-48)	225 x 195 x 150	5	F204	800
FXPS 12-01	12	Chilled / Ambient (24-48)	300 x 200 x 200	5	F204	240
1-PF2*50	12	Chilled / Ambient (24-48)	225 x 230 x 230	5	F204	100
FXPS 18-01	18	Chilled / Ambient (24-48)	320 x 235 x 240	5	F201	480
FXPS 30-01	30	Chilled / Ambient (24-48)	400 x 300 x 250	5	F204	130
FXPS 54-01	54	Chilled / Ambient (24-48)	420 x 315 x 410	5	F204	180
FXPS 89-03	89	Chilled / Ambient (24-48)	630 x 455 x 310	5	F204	100

### LIPBOX - DOUBLE WALL

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	THICKNESS (MM)	FEFCO	MIN. CONSUM. (UNITS)
1-DISF12_DBL	12	Chilled / Ambient (24-48)	290x 190 x 200	5 + 5	F204 + F904	1,920
1-DISF30_DBL	30	Chilled / Ambient (24-48)	390 x 290 x 250	5 + 5	F204 + F904	1,040

\*Inlays without outer plastic protective bag. The outer cardboard box is normally purchased by our customers from a local supplier.



# REUSABLE PACKAGING

IsoBox 2Door



CarryTemp Bag



Pallet Shippers



## **ISOBOX 2DOOR** **THE HIGH-PERFORMANCE SHIPPER** **WITH LOW COST PER USE**

This addition to the Tempack reusable solutions range has been tailored specifically to the needs of food distribution/fulfilment centres.

A supreme alternative to EPP shippers, IsoBox 2Door offers all the hallmarks of a high-performance solution without all the associated costs. It has everything a food consignor needs to safely transport fresh, perishable and frozen foods for anything up to 24 hours. IsoBox 2Door consists of an PVC outer cover, an inner PU container and a separate lid with an embedded magnetic closure system where a eutectic plate is placed.

## **CARRYTEMP BAG** **REUSABLE PACKAGING**

Tempack CarryTemp Bag CTB36 is a patented, reusable solution composed of an insulated external bag with inner super-insulation material and high-performance cooling elements.

When combined, these qualities – conceived during CTB 36's design and testing phases – make it an ideal carrier for home delivery services that require chilled and frozen products to reach a destination in their correct temperature state.

## **PALLET SHIPPERS** **PROTECTION FOR LONG HAUL**

Think big. Think bulk. Tempack pallet shippers are designed to safeguard the integrity of large, temperature-sensitive product shipments at all temperature ranges, in all modes of transport, for great distances. These isothermal shippers shield against the harshest and most diverse weather conditions. And being pallet-based, they are elevated safely from ground level. They are also highly cost-effective in comparison to multiple parcel shippers.

Lightweight by design, Tempack temperature control pallet shippers are incredibly user-friendly to condition and assemble. They are available globally and come in many workable sizes.

\* Non contractual image.



# REUSABLE PACKAGING



Internal Volume (Litres)  
**18 - 2,000**



Temperature Range  
**CHILLED, FROZEN, AMBIENT**



Duration (Hours)  
**UP TO 120**

## PRODUCT SPECIFICATION

### ISOBOX 2DOOR

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	EXTERNAL DIMENSIONS (MM) L x W x H	TARE WEIGHT (±KG)
IsoBox 2Door	40-49	Chilled / Frozen (Up to 24)	520 x 320 x 240	600 x 400 x 320	4

### CARRYTEMP BAG

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	EXTERNAL DIMENSIONS (MM) L x W x H	WEIGHT
CTB36 18L	18	Chilled / Frozen (+/- 6)	330 x 220 x 380	360 x 250 x 400	+/- 3

### PALLET SHIPPERS

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	EXTERNAL DIMENSIONS (MM) L x W x H	THICKNESS (MM)	MIN. CONSUM. (UNITS)
CT 651N	628	Chilled / Frozen / Ambient (Up to 24)	1,050 x 650 x 920	1,200 x 800 x 1,200	60	1
CTP 1731N	1,731	Chilled / Frozen / Ambient (Up to 24)	1,350 x 950 x 1,350	1,490 x 1,090 x 1,430	60	Inquire
CTP 2141N	1,766	Chilled / Frozen / Ambient (Up to 120)	1,380 x 1,000 x 1,280	1,560 x 1,180 x 1,460	80	Inquire



# CONTAINERS FOR VEHICLES

CarryTemp



CT XL6



## CARRYTEMP

### WHERE PROTECTION MEETS PORTABILITY

The durable, low-density CarryTemp shipper makes light work of home deliveries. Operating at ambient, chilled or frozen temperatures, this reusable, isothermal container will maintain a stable cold chain for all manner of perishable goods for the specified duration of their transit.

CarryTemp utilises a high-density polyurethane (PUR) container for unbeatable insulation power. And its ecological, passive cooling elements protect a shipment's integrity while decreasing CO2 emissions and greatly reducing transport costs.

## TRANSFORMING VEHICLES

### COLD CHAIN PACKAGING FOR URBAN MOBILITY

Our Transforming Vehicles range is ideal for cargo vans, bicycles, and both hybrid and conventional delivery vehicles. It allows for the easy adaptation of ordinary vehicles into refrigerated ones, with excellent cooling performance and a 24-hour unbroken cold chain guarantee, even in midsummer.

The Transforming Vehicles solutions are allowed into zero CO2 emission zones and are much more cost-effective than actively cooled vehicles. The containers are extremely light yet durable. ATP certification is available upon request, and the containers can be custom-made for existing fleets.



# CONTAINERS FOR DELIVERY VEHICLES



Internal Volume (Litres)  
**77 - 2,300**



Temperature Range  
**CHILLED, FROZEN, AMBIENT**



Duration (Hours)  
**24 - 48**

## PRODUCT SPECIFICATION

CARRYTEMP						
REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	EXTERNAL DIMENSIONS (MM) L x W x H	THICKNESS (MM)	TARE WEIGHT. (KG)
CT 77P	77	Chilled / Frozen / Ambient (24-48)	580 x 390 x 340	680 x 490 x 440	40	5.2
CT 84P	84	Chilled / Frozen / Ambient (24-48)	660 x 360 x 355	760 x 480 x 470	40	6.6
CT 147N	147	Chilled / Frozen / Ambient (24-48)	680 x 540 x 400	820 x 680 x 540	60	13.8
CT 246N	246	Chilled / Frozen / Ambient (24-48)	680 x 540 x 670	820 x 680 x 800	60	17.1
CT 360N	360	Chilled / Frozen / Ambient (24-48)	995 x 540 x 670	1,140 x 680 x 800	60	21.5

TRANSFORMING VEHICLES					
REFERENCE	VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	EXTERNAL DIMENSIONS (MM) L x W x H	TARE WEIGHT (KG)
CT XL2	318	Chilled / Frozen / Ambient (24)	940 x 650 x 570	1080 x 790 x 710	17
CT 330N AN	330	Chilled / Frozen / Ambient (24)	835 x 545 x 725	975 x 685 x 865	17
CT 348N GRM	348	Chilled / Frozen / Ambient (24)	940 x 650 x 570	1,080 x 790 x 710	18
CT XL6	605	Chilled / Frozen / Ambient (24)	903 x 668 x 1,003	1,035 x 790 x 1,140	30
CT XL9	880	Chilled / Frozen / Ambient (24)	1,320 x 660 x 1,010	1,460 x 880 x 1,150	40
CT 2233 XXL	2,233	Chilled / Frozen / Ambient (24)	1,510 x 1,020 x 1,450	1,650 x 1,130 x 1,650	75



# LIFE SCIENCES PACKAGING

DSX Diagnosach



Patient Bags



P650 Termovial



ATP650 Insulated Box



## DSX DIAGNOSACH

### EXTENSIVE BIOLOGICAL PRESERVATION

Reusable and with a good life expectancy, the DSX Diagnosach medical transportation kit is a lightweight, isothermal shipping container that has been specifically designed to overcome the difficulties of shipping biological samples under controlled temperature conditions. It also lends itself to the shipment of pharmaceuticals and chemical goods.

The DSX Diagnosach medical cooler combines a quilted, waterproof overpack with a substantial, isothermal, internal container to protect goods at chilled, ambient and frozen levels for up to 4 days.

## PATIENT BAGS

### DOOR-TO-DOOR STABILITY

Pharmaceutical products, insulin, blood and vaccines will all make it home safely using Tempack temperature-controlled patient bags and covers. Lightweight and highly-portable, they will perform in different temperature ranges and a unique, triple-layer, high-density composition guarantees transportation autonomy for up to 12 hours. This depth of functionality has made these insulated bags useful for all kinds of temperature-sensitive goods. The materials used in Tempack cooler bags and covers mean they are easy to clean and sterilise.

## ATP 650 INSULATED BOX

### COLLAPSIBLE THERMAL PROTECTION FOR CATEGORY B SUBSTANCES

The ATP 650 is high-performance, exterior, temperature control packaging for biological and potentially hazardous substances. UN 3373-certified, this strong, rigid, insulated, water-resistant system will regulate its temperature-sensitive contents, keeping them at either refrigerated or ambient temperatures, according to requirements. The Tempack ATP Insulated Box is an isothermal packaging solution for biological samples with a collapsible function that reduces storage and transport costs. It is designed to work with corresponding secondary packaging

## P650 TERMOVIAL

### RELIABLE, REUSABLE TRANSPORT FOR VIALS AT CONTROLLED TEMPERATURES

The P650 Termovial isothermal bio-container for test tubes and vials will protect the integrity of diagnostic samples for the full duration of their journey. Exterior packaging works with these sturdy, reusable vessels to safeguard products in transit at refrigerated or frozen levels, for up to 96 hours. Each diagnostic sample container is hermetically sealed, non-toxic and conforms with layers of UN and transport regulatory policy.



# LIFE SCIENCES PACKAGING



Internal Volume (Litres)  
**SEE PRODUCT**



Temperature Range  
**CHILLED, FROZEN, AMBIENT**



Duration (Hours)  
**UP TO 96**

## PRODUCT SPECIFICATION

### DSX DIAGNOSACH

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INT. DIM. COVER (MM) L x W x H	INT. DIM. CONTAINER (MM) L x W x H	THICKNESS (MM)	MIN. CONSUM. (UNITS)
DSX 5	5.56	Chilled / Frozen / Ambient (Up to 96)	250 x 250 x 290	185 x 165 x 182	30	10
DSX 12	12.8	Chilled / Frozen / Ambient (Up to 96)	400 x 300 x 300	325 x 185 x 213	40	10
DSX 21	22.6	Chilled / Frozen / Ambient (Up to 96)	450 x 350 x 350	355 x 255 x 250	40	10
DSX 40	42.2	Chilled / Frozen / Ambient (Up to 96)	450 x 450 x 430	355 x 355 x 335	40	10

### PATIENT BAGS

REFERENCE	INTERNAL VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	WEIGHT (KG)	MIN. CONSUM. (UNITS)
DSF 9	9	Chilled / Frozen / Ambient (Up to 12)	290 x 200 x 150	0.5	10
DSF 18	18	Chilled / Frozen / Ambient (Up to 12)	250 x 250 x 290	0.4	5
DSF 36	36	Chilled / Frozen / Ambient (Up to 12)	400 x 300 x 300	0.9	5
DSF 55	55	Chilled / Frozen / Ambient (Up to 12)	450 x 350 x 350	1	5
DSF 87	87	Chilled / Frozen / Ambient (Up to 12)	450 x 450 x 430	1.9	5

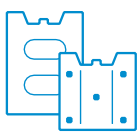
### ATP650 INSULATED BOX

REFERENCE	VOLUME (L)	TEMPERATURE RANGE DURATION (HOURS)	INTERNAL DIMENSIONS (MM) L x W x H	FEFCO	MIN. CONSUM. (UNITS)
FXPS 2.5 P650	2.5	Chilled / Ambient (Up to 4)	150 x 120 x 142	F210	250
FXPS 4 P650	4	Chilled / Ambient (Up to 4)	187 x 116 x 185	F215	250

### P650 TERMOVIAL

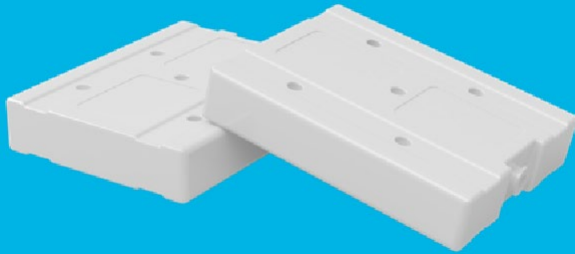
REFERENCE	TEST TUBES	TEMPERATURE RANGE DURATION (HOURS)	DIM. TUBE RACK (MM)	MIN. CONSUM. (UNITS)
RFP TMV	2	Frozen (Up to 72)	110 x 20	250
RCP TMV	2	Chilled (Up to 72)	110 x 20	250
RPCM TMV	2	Other (PCM) (Up to 72)	110 x 20	250
REFERENCE	INT.VOL (L)	TEMPERATURE RANGE DURATION (HOURS)	THICKNESS (MM)	MIN. CONSUM. (UNITS)
CIEPS TMV*	1	Chilled / Frozen (Up to 72)	20	8*

\*EPS box for Termovial: minimum consumption in combination with Termovial orders

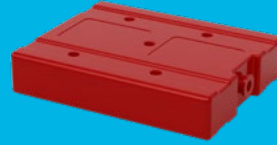


# COLD PACKS

Rigid Cold Packs/Plates



Rigid Frozen Packs/Plates



Flexible Cold/Frozen Packs



## **RIGID COLD PACKS/PLATES** **THE ROBUST, RESISTANT SOLUTION** **FOR REFRIGERATED TRANSPORT**

A combination of high-density polyethylene (HDPE) and eutectic gel form the backbone of the Tempack Rigid Cold Pack. Offering incredible resistance to breakage and compression, this tough, recyclable plastic exterior holds a eutectic solution that absorbs heat and ensures a more stable temperature release.

Together they enable temperature-sensitive products to remain at refrigerated temperatures throughout their cold chain journey for up to 120 hours.

## **RIGID FROZEN PACKS/PLATES** **THE SOLID, SAFE DRY ICE SUBSTITUTE**

As a viable alternative to dry ice which carries regulatory burdens due to its hazardous CO<sub>2</sub> composition, Tempack's Rigid Frozen Packs offer safety, strength and peace of mind without the logistical headaches.

Utilising the rigidity of HDPE as a container, the eutectic gel in this product upholds negative temperatures, with phase change in these frozen packs occurring at -21°C. Autonomy extends up to 4 days.

The product is also environmentally responsible and is fit for reuse and recycling.

## **FLEXIBLE COLD PACKS/FROZEN PACKS** **THE EASY, ECONOMICAL COLD PACK**

Tempack's flexible refrigeration and freezing cold packs represent a more economical alternative to traditional cold packs. Lighter and easier to use, their high calorific capacity prolongs refrigeration time due to extremely low heat conductivity.

Being non-toxic, heat-sealed and resistant to damage, these temperature-controlled cooling packs are suitable for contact with food and will protect perishables in their correct state for up to 48 hours. They are available in different sizes and weights.



# COLD PACKS



Volume (cc)  
**200-4,100**



Temperature Range  
**CHILLED, FROZEN, AMBIENT**



Duration (Hours)  
**UP TO 120**

## PRODUCT SPECIFICATION

### RIGID COLD PACKS/PLATES

REFERENCE	VOLUME (CC)	DIMENSIONS (MM) L x W x H	UNITS/BOX	BOXES/PALLET	UNIT/PALLET	MIN. CONSUM (PALLET)
RCP 200	200	165 x 75 x 21	36	84	3,024	1
RCP 400	400	166 x 93 x 30	21	84	1,764	1
RCP 600	600	180 x 117 x 37	14	84	1,176	1
RCP 900	900	180 x 143 x 36	12	84	1,008	1
RCP 2000	2,000	280 x 190 x 40	5	80	480	1
EPR 2000 N0 A	2,000	475 x 285 x 21	4	75	300	1
EPR 4100 N0 A	4,100	530 x 325 x 30	5	24	120	1

### RIGID FROZEN PACKS/PLATES

REFERENCE	VOLUME (CC)	DIMENSIONS (MM) L x W x H	UNITS/BOX	BOXES/PALLET	UNIT/PALLET	MIN. CONSUM (PALLET)
RFP 900	900	180 x 143 x 36	12	84	1,008	1
RFP 2000	2,000	280 x 190 x 40	5	80	400	1
EPF 2000 N12 A	2,000	475 x 285 x 21	4	75	300	1
EPF 4100 N21 A	4,100	530 x 325 x 30	5	24	120	1

### FLEXIBLE COLD PACKS/FROZEN PACKS

REFERENCE	VOLUME (CC)	DIMENSIONS (MM) L x W	UNITS/BOX	BOXES/PALLET	UNIT/PALLET	MIN. CONSUM (PALLET)
FCP FF420 (Chilled)	420	170 x 200	20	78	1,560	1
FCP FF420 (Frozen)						
FCP FF600 (Chilled)	600	170 x 200	15	78	1,170	1
FCP FF600 (Frozen)						
FCP FF750 (Chilled)	750	170 x 200	12	78	936	1
FCP FF750 (Frozen)						
FCP FF1000 (Chilled)	1,000	170 x 250	10	65	650	1
FCP FF1000 (Frozen)						



# SPECIALISED SERVICES



## CUSTOMISED SOLUTIONS

We design and produce fully-customised solutions to comply with the most rigorous requirements and specifications of products that are sensitive to temperature change. To ensure optimal performance, these solutions are tested and qualified, taking into account the logistical economics that packages will face during transportation under temperature-controlled conditions.

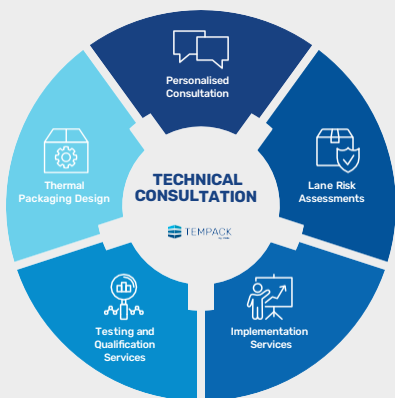
Physical features such as volume and weight will be assessed in context with the logistics circuit characteristics selected by our customers. Typically these would include mode of transport, duration and expected temperature exposures based on the climatic conditions of the shipping regions involved. We then take a modular approach to stock management. This reduces the component variables – and ultimately the costs – related to logistics and distribution.



## LABORATORY TESTING AND QUALIFICATION PROCESS

The entire design, simulation and testing processes, as well as qualification of packaging autonomy for a complete cold chain logistics circuit, are carried out at Tempack's ISO 9001 certified laboratory. Equipped with cutting-edge technology, the facility ensures our cold chain packaging solutions comply with our customers' profiles, as well as with the sector's standards (ISTA, IATA, UN, WHO, AFNOR).

Every single thermal solution is developed in line with regulations and will guarantee the integrity of your product in transit. To ensure this, climate personnel carry out more than 500 tests a year, encompassing capacities from 0.1 litres to 2,500 litres and temperatures that range from -25°C to +60°C.



## TECHNICAL CONSULTATION

We understand the challenges our customers face when shipping temperature sensitive products. Our experienced teams evaluate your requirements and identify the most suitable packaging system to meet your needs. We offer a wide range of technical services, from implementation services and lane risk assessments to on-site training and excursion management.



 Tempack Locations

 CSafe Locations

## Spain

Av. Verge de Montserrat, 2  
08820 El Prat de Llobregat  
Barcelona

☎ (+34) 93 366 10 25

## Germany

Schubertstr. 13  
D-28209 Bremen

☎ +49 (0) 421 84 13 94 87

