

**CRYOLOGISTICS**  
REFRIGERATION TECHNOLOGIES™

# SnowSHIP™

## The Cold Chain Reinvented.

Introducing the revolutionary shipping solution designed specifically for temperature-sensitive goods.



### RELIABLE Control

Non-Mechanical  
Heat Exchange  
System

Precise Temperature  
Set Points Between  
-20°C & Ambient



### LOW Emissions

Liquid CO<sub>2</sub> Reuse  
Technology

Net Zero Carbon  
Footprint

Zero NOx PM Emissions  
or Noise



### INNOVATIVE Design

Rugged, Scalable and  
Customizable

High-Efficiency Thermal  
Insulation

IoT Enabled



# THE NEW FACE OF SHIPPING

Shipping has never been this cool. SnowSHIP™ is the first single pallet shipper that utilizes the cooling power of liquid CO<sub>2</sub> to provide pin-point temperature control throughout your supply chain. No reefer, dry ice, gel packs or electricity required!

In just a few quick steps your temperature-sensitive shipment will be ready to hit the road in it's own secure, thermally insulated container designed specifically for the global logistics industry.



## 1. PREPARE

Charge with liquid CO<sub>2</sub>



## 2. SET

Set desired temperature



## 3. LOAD

Load cargo



## 4. SHIP

Safe & secure



## 5. TRACK

Track shipment



## 6. REPORT

Download trip report

# THE SCIENCE

SnowSHIP™ combines the natural cooling power of liquid carbon dioxide (LCO<sub>2</sub>), high-efficiency insulation and an IoT-enabled digital control system for live monitoring.

CO<sub>2</sub> is a commodity available worldwide and is used by many industries including food and beverage, manufacturing and the energy sector. SnowSHIP™ exploits its natural refrigerant properties to reduce the transport industry's total GHG emissions.

\*PATENT PENDING

# THE SOLUTION

Designed in partnership with leading Less-Than-Load (LTL) carriers, SnowSHIP™ solves common industry pain points:

**LOW PROFIT MARGINS**  
**TEMPERATURE EXCURSIONS**  
**INEFFICIENT ROUTING**  
**EMISSIONS**  
**LAST MILE DELIVERY**

**REGULATORY COMPLIANCE**  
**SPOILAGE & WASTE**  
**HIGH OPEX & CAPEX**  
**CUSTOMER SATISFACTION**

# THE SPECIFICS

**Outer Dimensions:** 48" W x 59.5" L x 79" H

**Payload Dimensions:** 42.5" W x 49.75" L x 58" H

**Tare Weight (Full CO<sub>2</sub> Tanks):** 1,175LBS

**Max Gross Weight:** 3,000 LBS

**Payload Volume:** 1,980L

**Ambient Temperature Range:** -30°C - +40°C (-22°F - +104°F)

**SnowSHIP™ Cooling Range:** -20°C (-4°F) - Ambient

<b>Operating Duration:</b>	<b>Set Point</b>	<b>Duration</b>	<b>Days*</b>
(Based on 200lb CO <sub>2</sub> , 5°C/41°F Ambient Truck Temperature, and With a Pre-Conditioned Load & SnowSHIP™ That Remains Sealed Throughout Shipping and Kept Conditioned When Not in Operation)	+3°C (37.4°F)	157 hours	20 Days
	-10°C (14°F)	123 hours	15 Days
	-20°C (-4°F)	106 hours	13 Days

\*8 Hour Operating Days

# LIVE MONITORING

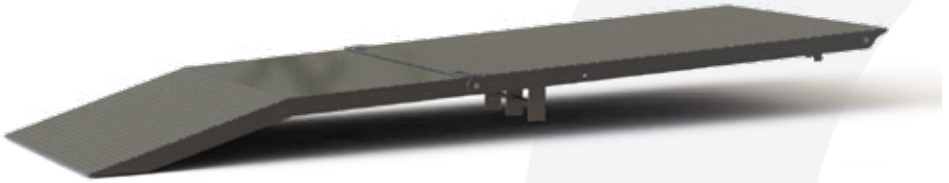


With CryoLogistics' live monitoring software, you can provide reliable and precise monitoring of your temperature-sensitive shipments. Say 'goodbye' to claims from damage or temperature-excursions and 'hello' to real-time tracking. With updates available on your mobile or desktop, you can monitor your SnowSHIP's™ temperature, location, door openings and CO<sub>2</sub> supply, ensuring your shipment remains safe & secure to its destination.

# CRYORAMP

The SnowSHIP™ was designed to fit a full standardized pallet up to 58" tall. It can be directly loaded/unloaded with a forklift. However, we know that in some circumstances, such as last mile delivery, that's not always possible and hand-bombing is time consuming. That's why we developed the CryoRamp!

The multi-use CryoRamp allows users to load and unload a pallet with either a manual or electric pallet jack through an innovative, compact design with lift capabilities.



## DURABLE

CryoRamp = 58lbs  
Load Capacity = 3,000lbs



## THIN PROFILE

Folded: 36" W x 38.75" L x 4" H  
Unfolded: 36" W x 70" L x 7.5" H



## EASY TO STORE

Thin profile allows the ramp to store between SnowSHIP™ and neighbouring standard pallet



# FAST-FILL SYSTEM

The SnowSHIP™ carries 200lbs of liquid CO<sub>2</sub> within a reservoir inside the unit. The CryoLogistics' Fast Fill System enables you to quickly refill the reservoir and redeploy your SnowSHIP™ in minutes, directly from a micro-bulk CO<sub>2</sub> tank on your premises.

CryoLogistics will resupply your LCO<sub>2</sub> requirements on demand.

## 1. RECOVER

Recover Surplus CO<sub>2</sub> into Chilling Tank

## 2. RECHARGE

Pump CO<sub>2</sub> From Reservoir to Fueling Station

## 3. REFILL

Refill SnowSHIP™ Reservoir



\*IN DEVELOPMENT  
ROUGH SCHEMATIC



## **GET IN TOUCH**

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