

*powerblanket*®

POWERBLANKET PRODUCT CATALOG



# PROTECT YOUR CRITICAL MATERIALS & EQUIPMENT

Powerblanket is proud to be an American Manufacturer. We design and build heating blankets and chilling products for a wide range of industries and temperature problems. From construction to manufacturing, Powerblanket products make equipment last longer, projects stay on track, and fluids flow smoothly. You can rely on Powerblanket year-round to prevent costly setbacks and increase productivity. No matter your temperature challenges, Powerblanket has you covered.

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# INDUSTRIES WE SERVE

## COMPOSITE & EPOXY CURING

Thermal curing technology for epoxy and composites used in industries such as aerospace, marine, and wind energy



## RAILROAD

Designed to assist railroad companies in protecting resources and ensuring operational continuity



## CONSTRUCTION & CONCRETE

Concrete, roofing, spray foam, painting, and others benefit from using Powerblanket during cold weather



With Powerblanket, equipment lasts longer, projects stay on track, and fluids flow smoothly. Use Powerblanket technology year round to achieve total temperature control. Some of the various industries we serve include:

## CHEMICAL

Ensure that heat is evenly applied to keep equipment operational and chemicals safe



## AGRICULTURE/ DAIRY

Solutions that are economical, easy to use, store, and transportable



## OIL & GAS

Protect your assets against the threat of failure, downtime, and hazardous conditions



Oil/Gas	Valves	Roofing	Mining	Fertilizer
Railroad	Instrumentation	Industrial	Concrete	Brewing
Sprayfoam	Food Processing	Manufacturing	Public Works	Fermentation
Coatings	Composites	Specialty Gases	Excavation	Welding
Chemical	Construction	Agriculture	Water Purification	Diesel Exhaust Fluid
Piping	Precast	Dairy	Government & DOD	

Powerblanket products are listed cETLus\*, they conform to ANSI/UL 499, and are certified to CAN/CSA C22.2 No. 130. Our hazardous location products meet the above standards as well as ISA12.12.01 and CSA C22.2 No. 213. Our hazardous location products are listed for use in Class I Division 2; Groups A, B, C, and D Hazardous Environments with a maximum Temperature Classification of T4. Summerstep is cTUVus listed. \*The Beacon Controller and Fluxwrap are not cETLus.

# CUSTOM SOLUTIONS

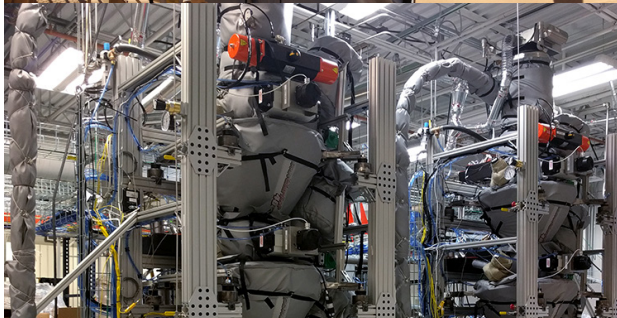
## HAZARDOUS LOCATIONS

The most advanced hazardous area heating systems with special wiring and safety equipment to ensure the highest standards.



## PROCESS TEMPERATURE CONTROL

For heating, cooling, or advanced temperature control. Keep your processes at optimal temperatures.



## FREEZE PROTECTION

Save on labor costs, eliminate downtime and avoid replacing frozen equipment even in the harshest climates



Powerblanket engineers solve every kind of temperature problem from simple to very complex. Our expertise guarantees satisfied customers in a very short turnaround time.



## EQUIPMENT BOXES

Prevent freezing and avoid damage to the sensitive control valves, pressure gauges, and data-collection devices.



## TANK HEATERS

Maintain temperature, provide freeze protection, or optimize flow for viscous and temperature sensitive materials.



## PIPE HEATERS

Freeze protection for pipes, valves, and manifolds that saves time and money and prevents downtime.

## HIGHER HEAT

Powerblanket high temperature products offer consistent, regulated, safe, and evenly distributed heat for higher temperature applications. High heat solutions can be designed for almost any heater size and are available in up to 400°F.

## SAFE AND EFFICIENT

Powerblanket higher heat blankets isolate the heat from the user and surroundings with an insulated exterior that is safe to touch. High heat silicone heaters need between 600-1200 Watts to heat up products and materials. Because of the Powerblanket's insulation, fewer watts are required to heat up products and materials and to maintain heat.

# CUSTOM TANK HEATERS

Powerblanket Tank Heaters maintain temperature, heat, provide freeze protection, or optimize flow for viscous and temperature sensitive materials.

## OPTIMAL TEMPS

For temperature sensitive materials

## CUSTOM DESIGNED

To fit any equipment or system and provide ultimate freeze protection

## ENJOY PEACE OF MIND

Because your valuable materials are protected



**EDWARD SKUCHAS, ENGINEER WITH URS**

Powerblanket supplied the frac tank heating system currently working on-site. The heating system installed quickly despite rainy weather, and has protected the contents from freezing.



## WHITE'S EQUIPMENT RENTAL CUSTOM TANK HEATING

White's Equipment Rental, LLC faced a dilemma. They use Catch Tanks to capture fluids, and the chilly Marcellus winters were causing problems for these tanks. When Buck Binder, VP of Production and R&D Lead, realized the weather could cost the business thousands of dollars, he turned to Powerblanket for a custom solution.

### FROM COSTLY TO COST EFFICIENT

The secondary Catch Tanks are used for capturing detrimental fluids containing a combination of water, soap, and drill cuttings, thus preventing environmental concerns. If the Catch Tanks freeze, they prevent White's and their clients from pumping off the excess fluid. The tank can stop flowing completely or allow the fluid to pass through it into the flare. This can be costly in more ways than one.

Each Catch Tank rents for \$425 per day. If pumps fail as a result of freezing, the replacement cost is estimated at \$2,700 per pump. On top of the rental costs there are potential fines from the Environmental Protection Agency as a result of a hazardous spill. Multiply these costs by the 30 Catch Tanks currently in operation and the impact on revenue can be substantial: \$12,750 per day in rental revenue on the tanks alone; as

much as \$81,000 for a fleet of replacement pumps; and the overall impact of \$3,500 per day in unrecoverable equipment system revenue.

### CUSTOM SOLUTIONS

When Buck Binder reached out to Powerblanket, we developed a custom heating blanket fitted precisely to the Catch Tanks. By keeping the tanks warm during the cold weather, the risk of freezing was eliminated, and so was the risk that they would cause a loss in revenue. Powerblanket's custom heating solution provided White's Equipment with more than freeze protection. It provided both them as well as their clients with the benefits of sustainability, continuous production, and reduced or eliminated down time--not to mention peace of mind and the earned reputation of being a preferred energy services provider.

### WE CAN HEAT IT

Many industries protect their valuable materials with Powerblanket tank heaters: Oil & Gas, Mining, Chemical Manufacturers, Agriculture, Food Processing Plants, and Diesel Exhaust Fluid (DEF). No matter the size or shape of the equipment/system, Powerblanket's custom engineering team can create a solution. Custom heater blankets are used to maintain critical temperatures, heat, provide freeze protection, and optimize flow for viscous and temperature sensitive materials.

Freeze protection is a primary concern for many industries with tanks; however, Powerblanket's custom heating solutions provide more than freeze protection. Sustainability, continuous production, and reduced or eliminated down time, and peace of mind are all benefits of Powerblanket custom heaters.

# MCADA COLD WEATHER TANK SOLUTION

## WITH POWERBLANKET

Powerblanket Tank Heaters maintain temperature, heat, provide freeze protection, and optimize flow for viscous and temperature sensitive materials.

### GET TO KNOW MCADA

If you are in the oil industry, you know that cold weather can affect your productivity and profits. As a long-time leader in the industry, McAda Fluids Heating Services is an expert at heating the fluids needed for oil and gas well operations, including hydraulic fracturing, or “fracking.”

McAda offers the largest and most modern fleet of trucks, as well as the largest line of 35MM and 40MM BTU fluids heating units. The company provides the most efficient means for oil companies to heat fracking fluids. As a result, oil companies have taken notice; McAda works with many major and independent oil companies throughout North America.

Whether it’s a “Heat on the Fly” process to heat water from a direct water source, an on site frac tank, or a long-term, multi-well project, McAda is known for its reliability and problem-solving skills. With heating solutions like McAda’s in place, an oil company can keep its frac operations functional and efficient year round.

Even with a state of the art fleet, a solid knowledge of geology and the logistics required at unconventional shale oil projects, winter weather posed a significant challenge to productivity and efficiency for the company’s propane heating system.

### WORKING WITH POWERBLANKET

McAda worked with Powerblanket to



create a line of customized propane tank heaters, specifically designed to fit the company’s large, truck-mounted propane heating tanks. Using Powerblanket heaters to target heat distribution on the tank, optimal tank pressure can be maintained consistently. “This was an ideal solution,” said McAda. “We were just losing too much tank pressure when the needle dropped below freezing.” By using Powerblanket on its equipment, McAda was no longer forced to rely on unreliable solutions such as tarps, space heaters, and other makeshift means to keep the propane fuel tank warm.



MCADA

We were just losing too much tank pressure when the needle dropped below freezing. With the Powerblanket product, we can operate in the cold without any problems. It saves us time and headaches – and saves our clients a great deal of time and money.

## CUSTOM HEATERS FOR HARD-TO-FIT EQUIPMENT

### SAVE TIME

Reduce downtime and increase profitability

### NO MORE STEAMERS

Eliminate need for alternative emergency services or steamers

### ACCURATE DATA

Protect instrumentation from freezing for accurate data retrieval

### PROTECT VALVES

Sustain valve functionality

### SAVE MONEY

Save on labor costs through easy installation and removal

### CUSTOM FIT

Custom designs to fit any application



## PIPE, VALVE, & MANIFOLD HEATERS

Weatherproof your business with Powerblanket pipe heaters. These advanced heaters offer freeze protection for your entire pipe & manifold system. The simple design eliminates the need for expensive work crews to install or remove heat trace, insulation and cladding. Unlike heat trace, Powerblanket does not have inrush current issues. Valve, manifold, and pipe heaters are custom designed by Powerblanket's world-class engineers to fit perfectly on your piping system.



Powerblanket's world-class engineering team creates custom solutions for some of the most complicated and/or unusual temperature needs for industries all over the world--and they do it quickly. Often, when your industry is unique, there is not a ready-to-ship solution for your specific temperature needs. Our products are certified to OSHA safety standards and are easy to install, use, and store. Our custom approach will provide the ideal custom solution that saves time, money and headaches.

# VALVE, ACTUATOR & INSTRUMENTATION FREEZE PROTECTION

## WITH POWERBLANKET

Weatherproof your business with Powerblanket custom pipe, valve, manifold, & actuator heaters. Keep your operations running smoothly all winter.

### WHO NEEDED A SOLUTION?

**DOMINION ENERGY QUESTAR PIPELINE, LLC** (DEQP) is a major natural gas pipeline company that provides transportation and underground storage services in Utah, Wyoming and Colorado. Owning and operating 1,888 miles of pipeline with total daily capacity of 2,530 Mdth, their system is strategically located in the Rocky Mountains near large reserves of natural gas in six major producing areas, including the Greater Green River, Uinta and Piceance basins. They transport gas from these areas to other major pipeline systems for delivery to markets in the West and Midwest including the Dominion Energy UT local distribution system serving natural gas utility customers in Utah, southwest Wyoming and southern Idaho.

**EQUISTAR CHEMICALS, LP** manufactures basic chemicals, polymers, and fuels products in North America. The company

operates in two segments, chemicals and polymers. The chemicals business segment produces and markets ethylene, its co-products and derivatives. It also produces gasoline blending components such as methyl tertiary butyl ether and alkylate. The polymers business segment produces and markets polyethylene, low density polyethylene, linear low density polyethylene, and polypropylene. The company was founded in 1997 and is based in Houston, Texas. Equistar Chemicals, LP operates as a subsidiary of LyondellBasell Industries N.V.

### WHAT WAS THE PROBLEM?

**DOMINION ENERGY QUESTAR PIPELINE, LLC** in Eastern Utah had two 12" FI215 Valves/Actuators and two 16" FI212 Valve/Actuators that were freezing up and shutting down operations. With such a large service area, this pipeline needed efficiency without pause. They recognized



that they needed a solution custom designed to their system that would ensure consistent operations even in the coldest conditions.

**EQUISTAR CHEMICALS, LP**, located in Illinois, had 12 Fisher Valves also freezing up in extreme conditions. Powerblanket worked through LyondellBasell to provide valve heaters for Equistar Chemicals.

### THE POWERBLANKET SOLUTION

Freezing conditions and cold weather negatively impact critical materials and equipment. Exposure to extreme temperatures throughout the winter months can slow or halt operations. Powerblanket's world-class engineers created the right solutions to meet the needs of both companies.

### LASTING BENEFITS

After receiving their Powerblanket custom

solutions, **DOMINION ENERGY QUESTAR PIPELINE** appreciated the ease of installation and fit tailored for their systems specific needs. They now enjoy peace of mind knowing that their operations will not be stalled because of frozen valves and their customers will not have interrupted service.

The 12 Fisher Valves of **EQUISTAR CHEMICALS, LP** are wrapped with even heat that protects the instrumentation and sustains the valve functionality. Since the Powerblanket install, they are not concerned about downtime due to freezing temperatures and they have peace of mind knowing that Powerblanket products are manufactured to stringent safety standards. They have found a lasting solution.



## THE EVEN HEAT YOU NEED

### EVEN HEAT

Even and efficient heating cures epoxy effectively

### QUICK LEAD TIMES

Best in industry lead time with new custom designs in 1-2 weeks

### EFFICIENT

Eliminates the need for costly alternative heating solutions

### SPEED UP CURING

Decreases curing times allowing increased throughput

### PORTABLE

Can be used for production and in field repair

### DURABLE

Longest lasting curing blankets on the market

# EPOXY & COMPOSITE CURING BLANKETS

### POWERBLANKET EPOXY CURE BLANKETS

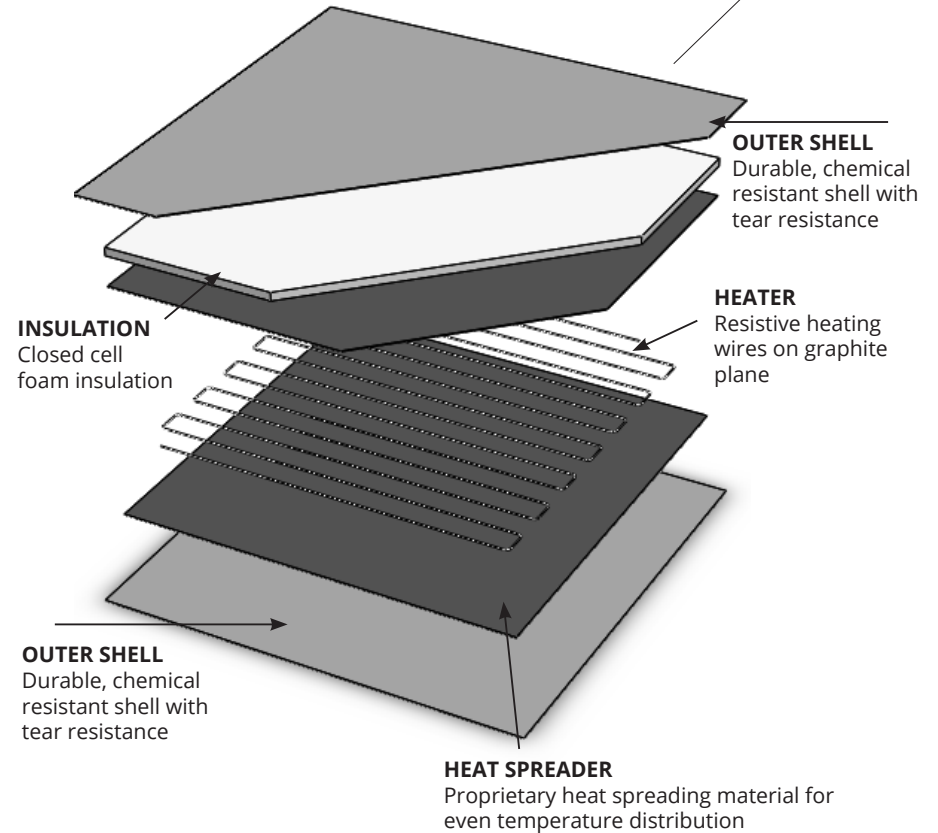
- Available in any width and length required
- Up to 80 Watts per Square Foot
- Maximum internal blanket temperature:  $200 \pm 9^{\circ}\text{F}$  ( $93 \pm 5^{\circ}\text{C}$ )

### CUSTOM HIGHER TEMPERATURE SOLUTIONS

- Custom solutions up to  $400^{\circ}\text{F}$  and 300 watts per square foot

### CUSTOM FIT

Custom designs to fit any application



# GOLD COAST YACHTS EPOXY CURING DILEMMA

## WITH POWERBLANKET

Any business that deals with epoxy curing knows how time-consuming and expensive the process can be. Curing epoxy resins with Powerblanket is easy and efficient.



### USING OVENS

In June of 2014, Gold Coast Yachts, manufacturer of high-end, carbon-fiber watercrafts, President, Richard A. Difede, grew increasingly concerned about the cost and time it took for their post-curing of large carbon-fiber joints on the yachts the company produced. The epoxy joints needed to cure at 145° F for an extended period of time, and the procedure Gold Coast used took too much time and money. Gold Coast had to architect, build, and

utilize large custom ovens for each section of yacht frame that needed high-temperature exposure. In other words, they were building a large shed around each and every frame. Workers used two-by-fours and sheet rock in order to create a sealed unit that could be pumped with heat. The process took a good deal of time and manpower, not to mention the extra costs for equipment.

Building the makeshift oven was only half the battle. Once the unit was completed, someone had to man the oven for the duration of the cure to regulate the temperature. They could not allow the temperature to fall below 145° F or climb too high above it. If this happens the process would be compromised and take even longer to complete.

Even while pumping the constructed oven with ample heat, they were still having

trouble penetrating through all the layers of carbon fiber. If the right amount of heat didn't penetrate through all layers, the cure wouldn't set completely. This long, costly, and inefficient process began to eat into the company's valuable time and profits.

### FINDING POWERBLANKET

"When Richard contacted us, it was obvious that he needed something far less-expensive and time consuming than his present method," the Powerblanket sales rep said. "I discussed with him the details of our epoxy-curing blankets, and he was excited to try them out. What started with a two-foot-by-two-foot test blanket quickly snowballed into many more orders."

Difede and his team soon found that the Powerblanket curing solution worked exceptionally well and eliminated the need for the prebuilt ovens they had spent so much time and money building. With a

thermostatic controller on each blanket, they could dial in the proper temperature and not worry about constant monitoring to make sure it stayed there. And with the Powerblanket patented technology, the right amount of heat distributed evenly through the entire application, increasing the speed of the cure by leaps and bounds.

After implementing the small demo blanket, Difede and his team purchased several additional blankets in multiple sizes. It wasn't long before they decided to take it one step further. After learning about Powerblanket custom heating solutions and the ability to manufacture custom blankets for just about any application, Difede purchased several custom-sized blankets for current and future projects.



**PROTECT**

Safely heat and protect critical materials and equipment without overheating or burning

**OPTIMIZE**

Improve overall efficiency of your operation with Powerblanket Total Temperature Control

**SAVE**

Prevent waste, lost time, and unnecessary labor costs. Powerblanket protects your bottom line.

**INSULATED**

Powerblanket robust vinyl shell retains heat

**WEATHER RESISTANT**

Can protect as low as -40°F / -40°C)

**EVEN HEATING**

Patented heat spreading technology



Powerblanket protects valuable equipment and fluids from freezing or overheating, and prevents project setbacks and unnecessary costs associated with adverse conditions by providing total temperature control.

## HEATING AND FREEZE PROTECTION

Powerblanket products can help you protect your critical assets against the threat of failure, downtime, and hazardous conditions.

- Save labor costs and downtime through easy installation, removal and reinstall
- Protect down to -40°F/-40°C
- Highly efficient and evenly-distributed heat
- Ability to meet CID2 hazardous location requirements
- Wind and water resistant
- Ensure smooth operation
- Custom designed to fit your specific needs
- Certified to UL/CSA standards

# POWERBLANKET PRODUCT LINES

## TO FIT YOUR NEEDS

The Powerblanket product line has provided an economical solution to the many heating problems you and your business face. Our versatile blend of patented technologies provide portable and easy-to-use freeze protection, insulation, and heating. Now, in an effort to better serve the needs of an ever-growing customer base, Powerblanket offers two options in heating and freeze protection.



The **POWERBLANKET** product line is designed for any definitive heating job. Each product is built with a rugged vinyl shell that is safe to use in temperatures as low as -20°F (-29°C). You can be sure that Powerblanket products will keep your equipment warm when temperatures drop well below freezing.

The **POWERBLANKET LITE** line is designed for smaller scale heating jobs. These models feature a lower power density, but rest assured, these heaters are the real deal. They are more energy efficient and safer than other heating elements on the market.

## HAPPY CUSTOMERS



### PBL55F POWERBLANKET LITE FULL COVERAGE DRUM HEATER

"I was so happy to receive this heated cover for my hot water heater. I am in New England and we have been in sub zero temperatures for a week, which is a very long time for our location. My hot water heater in the the garage, which is not insulated, and I was terrified that the heater would freeze. I received this Powerblanket and it was very easy to "install". You just wrap it around the heater, tighten with the velcro straps and plug in. It got warm right away and there has not been a problem. I wish I had ordered this years ago."

### BH55RR-100 DRUM HEATER

"Used this product at work to keep our barrel of DEF from freezing. Kinda pricey but for a quality product it's completely worth every penny. Even on the coldest days in the storage trailer, this wrap keeps our DEF "warm to the touch."

### PBL05 PB LITE 5-GALLON PAIL HEATER

"Love this thing!!! I use it to warm my soaping oils and it's marvelous. I have it wrapped around my buckets and at around \$100 it's way more cost-effective than using the water heated tanks (which are like \$800). I will be buying more of these for my additional pails."

### BH55RR-100 DRUM HEATER

"This is perfect for my operation. Especially this time of year when you pull in an ingredient and it's solid. We just put this on the night before and when we come in we have a liquid ready to use. Very easy to wrap and remove."

### PBL20 PB LITE GAS CYLINDER WARMER

"Excellent propane tank warmer for cold weather grilling! I purchased this item to use with my infrared grill I recently bought from Woot. I grill year-round knew that the new grill would not work when it got below 40F. The LP would not vaporized fast enough to keep the grill going. My first usage of the blanket was at an air temp of 32F, with all three burners going at full blast I had plenty of fuel. With an IR temperature probe I measured a temp of around 65F on the top of the tank just above the blanket. Needless to say I am very happy with my purchase and highly recommend it to anyone wanting to grill in the winter."



**VERSATILE**

Work on both steel and poly drums

**FULL-COVERAGE**

Provide an insulated, full-wrap design

**SAFE**

Deliver safe, distributed heat to temperature sensitive materials

**PROTECT**

Preserve expensive materials without overheating or burning

**NO MORE WASTE**

Prevent product waste by safely maintaining consistent temperatures

**VISCOSITY**

Improve viscosity and flow with easy-to-apply controlled heat

Hazardous Area CID2 Products Now Available!



**WE HAVE OPTIONS**

**PRO SERIES:** Includes a thermostatic controller for optimal control which allows you to adjust temperatures from ambient up to 145°F / 63°C (± 5°F / 3°C)\*.

**RR SERIES:** Utilizes the Rapid Ramp technology to quickly heat materials to a pre-set safe 100°F/38°C (± 10°F / 6°C), or 80 or 120°F.\*

**HAZARDOUS LOCATIONS SERIES:**  
CID2 Hazardous area product options available

**STANDARD SIZES:** Available in 5 gallon bucket size and sizes for 15, 30, and 55 gallon drums

**ACCESSORY PRODUCTS:** Improve thermal insulation with insulated top and bottom accessory products

\*Product Temperatures may vary depending on boundary conditions

**DRUM & BUCKET HEATERS**

Drum heaters are one of the most popular lines of Powerblanket products. The innovative design has changed the conventional method of heating materials by providing targeted and evenly distributed heat to the surface of the drum, thus eliminating hot and cold spots.



**MIKE ROBERTS, MANAGER HOWARD MARTEN FLUID TECHNOLOGIES**

Powerblanket drum and bucket heaters are a drastic improvement over the original band heaters we used to offer. With Powerblanket products we no longer have to worry about overheating or unpredictable thermostats. The Powerblanket Technology provides uniform heat throughout the entire barrel of product which is paramount to what we do. Powerblanket products are very durable, look great, and are the only heaters we will offer our customers.

## HERE'S HOW TOTE & DEF TOTE HEATERS WORK

### EVEN & SAFE

Distribute heat evenly around the tote and safely heat a wide variety of materials

### WEATHER RESISTANT

Designed to be durable and weather resistant

### EASY ACCESS

Provide easy access with a removable top

### CONTROLLER

An adjustable thermostatic controller and internal thermostats keep temperature in spec

### PROTECT THE PUMP

Fully enclose and heat the tote and pump housing unit

### CUSTOMIZE

Customized DEF bulk storage tanks available upon request

*\*330 gallon version features flap to easily access pump*

1



2



3



**Hazardous Area CID2 Products Now Available!**

## TOTE & DEF TOTE HEATERS

Powerblanket tote heaters maintain optimal heating conditions for temperature sensitive materials and solve viscosity issues. Powerblanket DEF tote Heaters are temperature specific to protect Diesel Exhaust Fluid from freezing. Whether you need temperature control for storage or active use, Powerblanket tote heaters will make a difference.

Q

### WHEN DOES DEF FREEZE?

A

DEF, because of the urea content, does not have the freezing point of water. The urea mixture has a much lower freezing point of 12°F/-11°C. This solution doesn't break into just urea and just water, either. The solution freezes at the same rate, and also thaws at the same rate. This means that at no point does the DEF freezing cause the solution to become over concentrated or diluted. DEF will begin to slush and then freeze. No one wants to deal with the inconvenience of frozen DEF.



**PROTECT**

Preserve temperature sensitive materials

**EASY INSTALL**

Quickly and effortlessly install the compact portable design

**DIRECT HEAT**

Localize heat and save money by not heating a warehouse or building

**EFFICIENT**

Lower energy-related costs with the highly efficient design

**3**

**OPTIONS AVAILABLE**

**POWERBLANKET LITE HOTBOX**

- 2 sizes available: Fits 40"x48" or 36"x48" pallets
- 800 Watt design
- Preserves temperature sensitive material
- Quick and easy assembly for portability and storage
- Great solution for palletized products: paint, caulk, resins and epoxies, etc.
- Two side access doors on opposite sides
- Certified to UL/CSA standards
- A durable, vinyl shell

**POWERBLANKET HOTBOX**

All the features of the Powerblanket Lite Hot Box, plus:

- Higher wattage (1200 Watts) for faster heating times & more extreme conditions

**PREMIUM HOTBOX**

The Premium Hot Box provides all the features of the Powerblanket model but also offers:

- A larger footprint (Fits 48" x 48" pallet)
- An internal steel frame
- The highest wattage (1440 Watts)
- A controller for precise temperature regulation

**BULK MATERIAL WARMERS**

Powerblanket Hot Boxes efficiently heat temperature sensitive materials such as paints, roofing materials, chemicals, epoxies, resins, equipment, and pallets of any material. Easily moved from job to job, hot boxes are ideal for cold weather storage, freeze protection, transporting, job site heating, remote location use, and winter roofing.



**VERN FIEHLER, OF QUICK ROAD REPAIR IN ALASKA**

Vern Fiehler, of Quick Road Repair in Alaska, saves money by keeping his product from overheating, which is what happened with his previous method of heating. Vern met with the field maintenance crew of the Juneau Alaska International Airport to demonstrate his product, Instant Road Repair (IRR). For his demonstration, he tried to bring IRR up to a workable temperature using a forced air ceramic heater. During his presentation the product did not perform well because his product overheated 40°F / 22°C above the maximum recommended temperature. That not only cost him the entire pallet of material but he was also embarrassed. Since this disaster, Vern uses the Powerblanket Hot Box.

*\*Heat circulation results can vary. For more precise temperature control a circulation fan is recommended.*



**PROTECT**  
Preserve temperature sensitive materials

**EASY INSTALL**  
Quickly and effortlessly install the compact portable design

**DIRECT HEAT**  
Localize heat and save money by not heating a warehouse or building

**EFFICIENT**  
Lower energy-related costs with the highly efficient design



**CHANGE YOUR WINTER ROOFING EXPERIENCE**

- Keep roofing materials warm.
- Prevent tools and equipment from freezing.
- Stay on track
- Save money by preserving critical materials
- Work all season long

# ROOFER HOT BOXES

Powerblanket Hot Boxes efficiently heat temperature sensitive materials such as paints, roofing materials, chemicals, epoxies, resins, equipment, and pallets of any material. Easily moved from job to job, hot boxes are ideal for cold weather storage, freeze protection, transporting, job site heating, remote location use, and winter roofing.



## MITCH DICKINSON, OF OUTSIDERS ROOFING IN RICHFIELD, UTAH

*Mitch Dickinson with Outsiders Roofing in Richfield Utah saves time and money with a Powerblanket Hot Box. Prior to owning a hot box, the company struggled when the winter temperatures got too cold in the mountain region of Utah. Roofing materials were hard to work with and their equipment would freeze up, causing installation issues and delays. Now, Mitch has his crew set up a hot box and keep it turned on throughout their job. "We use it quite a bit to prevent problems with cold weather and to have our materials warm when we are ready to use them, says Mitch. They put everything from shingles and caulk to their compressor and nail guns in the hot box. Some of the crew have even snuck into the hot box to warm up or to warm up their gloves on particularly cold days.*



**BETTER PERFORMANCE**

Increase performance and efficiency of gas cylinders

**SAVE MONEY**

Save money by optimizing gas and material usage

**FEWER REFILLS**

Eliminate unnecessary cylinder refills in cold weather

**FULL-COVERAGE**

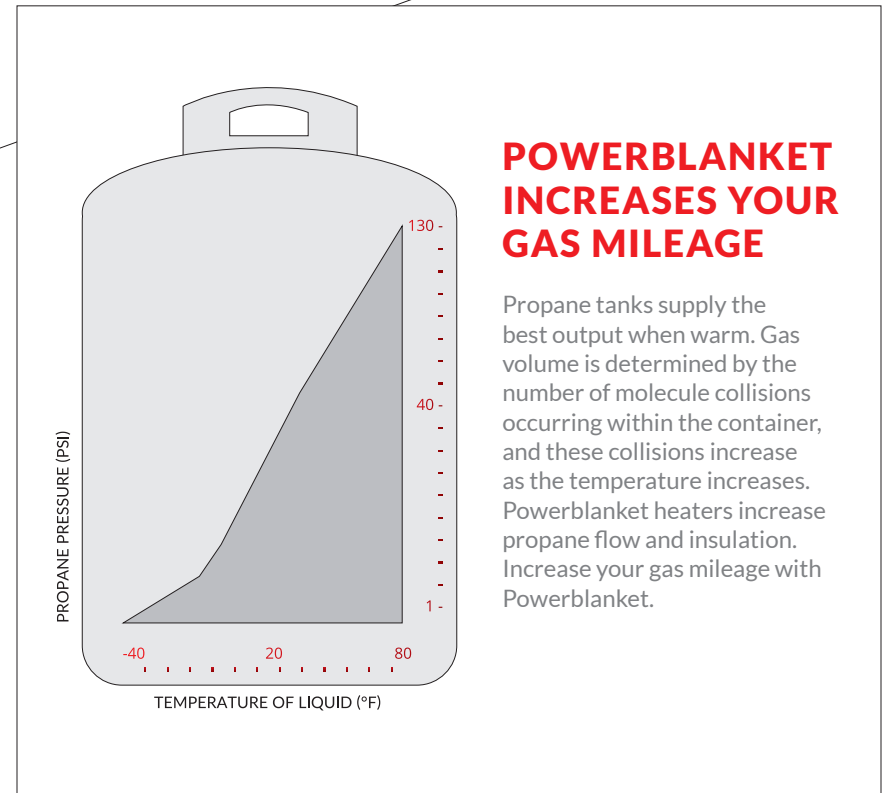
Insulated full-wrap design

**SAFE**

UL/CSA safety certified

**VISCOSITY**

Improve viscosity and flow on any tank



**GAS CYLINDER HEATERS**

Powerblanket has the best gas cylinder heaters on the market. Our heating blankets will overcome the effects of cold weather and maintain pressure and efficiency on any gas cylinder. If you have a home, cabin, or business fueled by propane, you know how frustrating and expensive it can be when your propane pressure decreases in cold weather.



A large US railroad company uses these heaters to keep snow off the tracks. By applying Powerblanket Gas Cylinder Warmers to their 1000 lb propane tanks, they power their generators along the railway system. Before using the Powerblanket heaters, the cold temperatures kept the propane from vaporizing, which made it more difficult to remove snow because the generators did not work.

# ENDURAPLAS AGRICULTURAL SOLUTIONS

## WITH POWERBLANKET

Enduraplas is a plastics manufacturing company that produces solutions for the agricultural industry. From large water tanks to fueling capsules, Enduraplas offers a wide range of liquid storage and transfer units.



### OPERATING WITH PROPANE

Many of Enduraplas' operations require the use of propane stored in propane tanks that require regulated temperatures to maintain optimal pressure. Despite the technology they had behind their manufacturing process, their propane tanks were still losing pressure in cold weather, and they needed a solution.

Propane is a vital component in Enduraplas'

manufacturing process, making their large propane tanks an invaluable asset. In fact, Enduraplas uses enough propane that they need to pigtail two or more tanks together in order to make one large tank, eliminating the necessity to switch connections from an empty tank to a full one. However, this system caused a problem with maintaining the pressure in the tanks, especially when cold weather set in.

"We found that we were losing significant pressure in our tanks when the temperature dropped below freezing" said Enduraplas' manufacturing manager. "The pressure in the tanks fell low enough that the pigtail application stopped working altogether."

### COLD WEATHER AND GAS PRESSURE DON'T MIX

Tank pressure can be drastically affected by cold temperatures, due to the nature of



cold weather and molecular density. When temperatures drop, so does the pressure a fluid or gas can maintain, as the molecules move closer together. Keeping a tank at a temperature that will maintain the proper pressure may seem next to impossible, especially since most propane is stored outside even during the winter months.

### A POWERBLANKET SOLUTION

Thankfully, with Powerblanket's propane heating blankets, Enduraplas delivered an even and consistent distribution of heat to their propane tanks during the coldest of days. The tanks remained at the ideal temperature and maintained optimal pressure, despite big drops in temperature.

“

### ENDURAPLAS MANAGER

Powerblanket's propane heaters worked so well that we actually only ended up having to wrap one tank per pigtail. The blankets maintained a high enough pressure that the propane transferred to the next tank without any problem.



**FASTER**

Cure concrete 2.8 times faster than conventional, insulated blankets

**STRONGER**

Produce cold weather concreting strength of up to 3,925 psi in 72 hours

**MAINTAIN MOISTURE**

Maintain moisture throughout hydrating process

**EASY TO USE**

Easily installed and removed

**BEAT THE COLD**

Prevent a freeze cycle

**COMPLIANT**

Maintain ACI compliance for cold weather concreting



**CURE**  **PRO**

Now offering our professional series of concrete curing blankets with maximum durability for the toughest jobs!

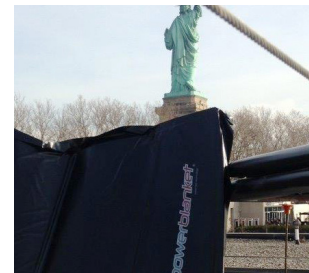


**DALE HELMING, PROJECT MANAGER MASSMAN CONSTRUCTION**

We didn't have the time to wait out the winter for the temperatures to become more moderate. The Powerblanket heating blankets certainly played an important role in keeping us on schedule and not having to postpone the pour on an important Kansas City bridge.

**CONCRETE CURING BLANKETS**

Powerblanket Concrete Curing blankets provide a manageable way to cure concrete effectively and confidently in the cold weather months. Even in warm weather, Powerblanket Curing Blankets increase production by rapidly curing with consistent, even heat. Year round applications include: precast, concrete counter tops, and decorative concrete.



**CONCRETE CURING IN WIND AND COLD WEATHER**

Reilly Construction of Wrightstown, NJ won a bid from the U. S. Department of the Interior, National Parks to replace the roof of The Great Hall Statue of Liberty National Monument. Reilly used five MD0520 concrete curing blankets to cure the masonry block work at the proper temperature (~50°F/~10°C) during December in New York and with the added chill of the water.

# WALSH CONSTRUCTION COLD WEATHER CONCRETING

## WITH POWERBLANKET

Powerblanket heated concrete curing blankets offer a manageable and realistic method for curing concrete in cold and adverse weather conditions.



### WALSH CONSTRUCTION

Walsh Construction, known as experts in heavy civil construction, received a contract from the U.S. Army Corps of Engineers to repair a portion of the Illinois Waterway, which connects Lake Michigan to the Mississippi River. The project, located in the Lockport Lock and Dam area, focused on repairing two miles of concrete wall with a panel construction.

The time frame of the project dictated that concrete pours needed to continue during

the Illinois winter. Since water in concrete can freeze starting at 30°F/-1°C, and at about 27°F/-3°C the hydration process can stop entirely, cold temperatures posed a risk. Since ice occupies about 9 percent more space than water, the integrity of the concrete needed protection. Walsh first concluded that a system that could maintain temperature control, did not use an open flame, and would retain moisture in the concrete would save them fuel and labor costs.

### COLD WEATHER CONCRETING

Walsh Construction, after evaluating their cold weather concreting options, determined that maintaining an open flame oil-heater to cure the concrete would cost several thousand dollars a month in on-site personnel. Further, that cost would not include the labor to build and move enclosures on the 40 foot (12.1m) long



segments as well as the cost of the fuel for the open flame heater.

### FINDING A SOLUTION

After talking to Blue Sky Contractors Supply in Merrillville, Indiana, Walsh found an alternative that saved time and money. The company purchased eight Powerblanket 6x25 ft (1.8m x 7.6m) and eight 3x25 ft (0.9m x 7.6m) multi-duty heating blankets.

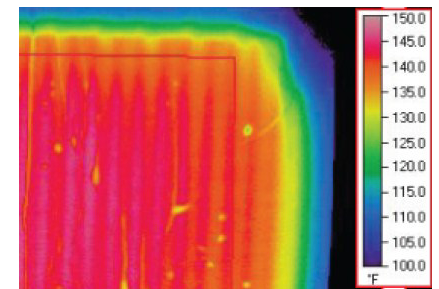
After calculating the savings in fuel, personnel to monitor the open flame, personnel and time to build and move enclosed shelters, and the heaters themselves, Walsh Construction realized it saved more than \$5.43 for every \$1.00 spent on the Powerblanket blankets.

Even better, the workers on the site found the blankets much easier to work with. In fact, Vern Adkins, Carpenter Foreman with

Walsh Construction, said this was the best heating/curing system he has worked with.

### THERMAL IMAGING

The advanced technology used in Powerblanket products spreads heat so evenly the corners and edges of the concrete receive protection. The thermal image records how evenly the product spreads heat. In fact, 98 percent of the temperature data points measured within a range of 137°F to 147°F – only 10 degree difference (58.3°C to 63.8°C).





- HOT**  
High watt density thaws frozen ground
- QUICK**  
Quickly remove frost prior to concrete pour
- MELT**  
Melt snow and ice from roofs, walkways, and construction areas
- EASY TO USE**  
Easily installed and removed
- CONTROL**  
Provides higher heat control when combined with a thermostatic controller
- SAVE**  
Saves time, money, and labor



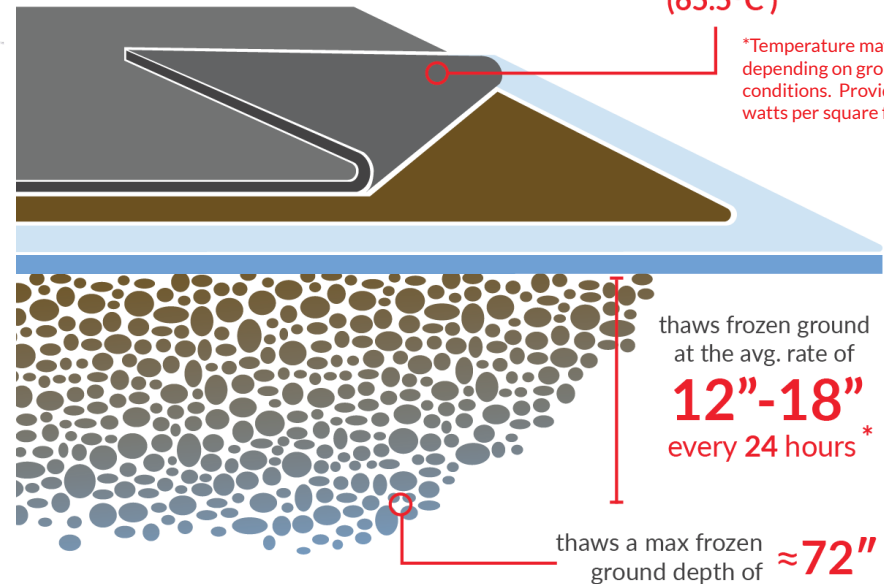
Now offering our professional series of ground thawing blankets with 20% more power and maximum durability for the toughest jobs!



# Ground Thawing Blankets

heats up to **150°F**  
(65.5°C)

\*Temperature may vary depending on ground conditions. Provides 36 watts per square foot.



thaws frozen ground at the avg. rate of **12"-18"** every 24 hours \*

thaws a max frozen ground depth of **≈72"** \*

\* results depend on ground composition and ambient conditions

## GROUND THAWING BLANKETS

Don't let the inconvenience of snow, ice, and frozen ground slow down your operations. The high-watt density in Powerblanket Ground Thawing Blankets help tackle the difficulty of thawing ground in harsh climates, thawing 12-18 inches of ground per day.



**KIM HERMAN OSP/COEI OPERATIONS MANAGER  
PRECISION UTILITIES GROUP**

Your blankets are absolutely excellent. Thanks to the Powerblankets we quickly thawed the ground to complete our job. We estimate a savings of 10 hours per site equaling a savings of \$5,000 already. Calculating this to our thousands of sites, the savings is huge!

## POWERBLANKET CREATED A SWEET SOLUTION

### FITTED

Cinch straps to secure tight fit

### ONE HEAT ZONE

Blanket temperature goes from ambient to 90°-110°F--preserves nutrients at hive temps

### EFFICIENT

Highly efficient design saves time and energy

### VERSATILE

Works on both poly and steel buckets/pails

### PROTECT

Prevent overheating your honey and help minimize crystallization

### SAFE

All models are certified by ETL to UL & CSA safety standards and water resistant



## HONEY PRODUCTS

The Powerblanket Bee Blanket heating solution will maintain the same temperature as a hive. With low-level internal thermostats, you can apply the Bee Blanket and leave it be. There's no need to worry about overheating your honey, because the Bee Blanket will never get too hot.

With this insulated vinyl heat blanket, you can heat your honey to the ideal temperature and maintain the viscosity required for bottling and managing honey stores.

## ZELLER AND SONS CRYSTALLIZED HONEY SOLUTION

Zeller and Sons Honey, a family-owned business based in northern Wyoming, manufactures sweet and delicious mild clover honey. They produce thousands of pounds of honey a year as well as other confections with chocolate and honey.

### WHAT WAS THE PROBLEM?

Zeller and Sons harvests the honey straight from the hives and stores it in big barrels. At first, they didn't have an efficient way to get the crystallized honey out of the barrels. Once the honey is harvested, it begins to crystallize which makes the honey very thick and hard. In order to jar the honey, they need to decrease the viscos-

ity. Warming honey can be difficult. If the temperature gets too hot too fast, the honey will darken and lose essential nutrients. Most beekeepers use big tanks of warm water to submerge a bucket of honey and wait for the honey to decrystallize. Although this method works, it takes a long time and may ruin the honey because it is difficult to manage the exact temperature of the water.

### THE POWERBLANKET SOLUTION

With the Bee Blanket, Zeller and Sons warm high quantities of honey at a time without having to worry about the temperature rising too much. The warming blanket not only decrystal-

lizes the honey, but it also keeps it warmed to the exact temperature needed. Ben Zeller, who has been beekeeping for over a decade, said, "Before, it was easier for the honey to go dark and it took much longer to get it to flow." He explained, "I use the blankets as a heater to decrystallize the honey. After it's fluid, we keep it consistently warmed at 95°F using the Bee Blankets."

### LASTING BENEFITS

Since Ben Zeller began using Bee Blankets, he is now able to warm 6,000 lbs of honey at a time rather than just 600 lbs. This has saved him a great amount of time and effort and has sped up production times tremendously.



**PROTECT**

Numerous industries need to protect expensive and valuable materials from excessive heat.

**MAINTAIN**

Precise temperature control for your processes that only requires an electrical outlet

**SAVE**

Reliable and efficient, North Slope Chillers products will prevent waste and lost time, protecting your bottom line.

**WORLD-CLASS CUSTOM**

Our custom team is ready to create a cooling solution for your unique needs

**QUICKEST LEAD TIMES**

Receive your cooling solution in as little as two weeks.

**SMART CHILLER TECHNOLOGY**

With remote capabilities, you can monitor cooling from anywhere.



Industrial chillers are used to cool process fluids, typically water or a water/glycol mix. These process fluids remove heat from machinery, equipment, foods, chemicals, etc. The fluid absorbs the heat from the external source and is then recirculated through the chiller to cool again and again.

# INDUSTRIAL COOLING

North Slope Chillers provides several performance levels of industrial cooling equipment with precise temperature control that is compact, yet efficient. Easy to install, remove, and relocate, you will be happy to have a chilling system that is painless and easy to use. Preserve your valuable materials and equipment while avoiding downtime when you use North Slope Chillers and Fluxwrap accessories to maintain and regulate safe temperatures.

# CHOOSE THE CORRECT CHILLER FOR YOUR NEEDS

North Slope Chillers offers a range of compact chiller units ideal for process cooling applications. If you require additional engineering, North Slope Chillers can design and build custom solutions to fit your specific needs in a timely manner. Your ideal chilling solutions are a simple phone call away.



## FREEZE

THE COLD STANDARD

**40°F** COOLING CAPACITY **75°F**

Meet the compact chiller that is both dependable and powerful. Freeze is North Slopes' standard industrial chiller that cools fluids between 40°F-75°F (1/2-2 ton) and 40°F-65°F (5-10 ton). A small workhorse, Freeze boasts a robust condensing unit and high horsepower. It's a lot of chilling power in a little package.

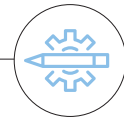


## DEEP FREEZE

THE COLDEST OF THE COLD

**-112°F** COOLING CAPACITY **70°F**

Intended to provide supreme industrial chilling, Deep Freeze shares many of the same hefty qualities of Freeze, along with the capacity to cool from -112°F to 70°F (depending on model) and fully insulated internal parts to ensure no internal temperature loss. Keep your critical materials and equipment cool even in hot conditions.



## NEED A CUSTOM SOLUTION?

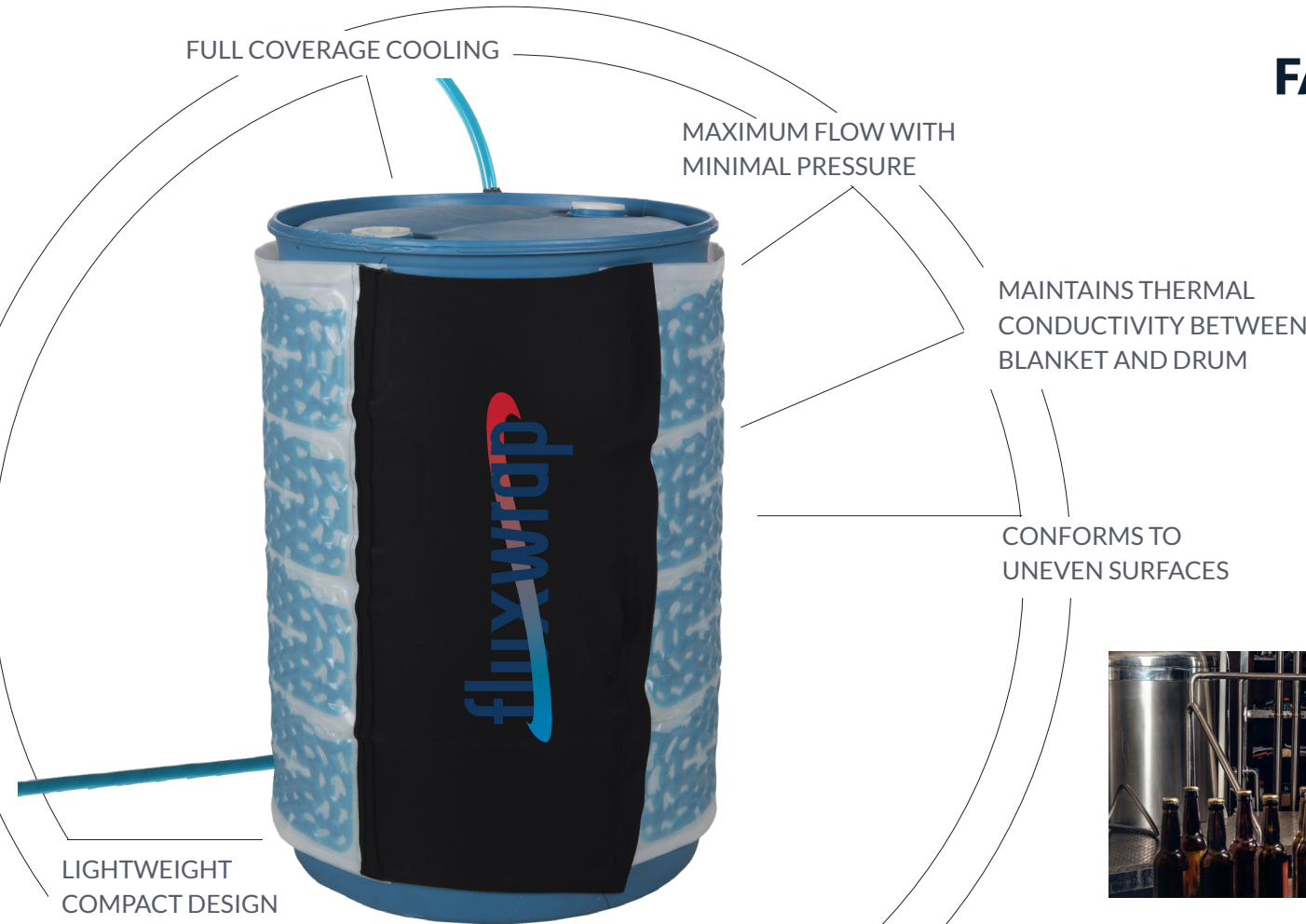
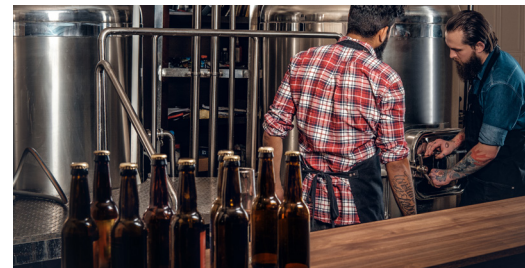
If North Slope Chillers standard chiller lines do not meet your unique temperature control needs, our world-class custom team will design a custom solution specifically for you.



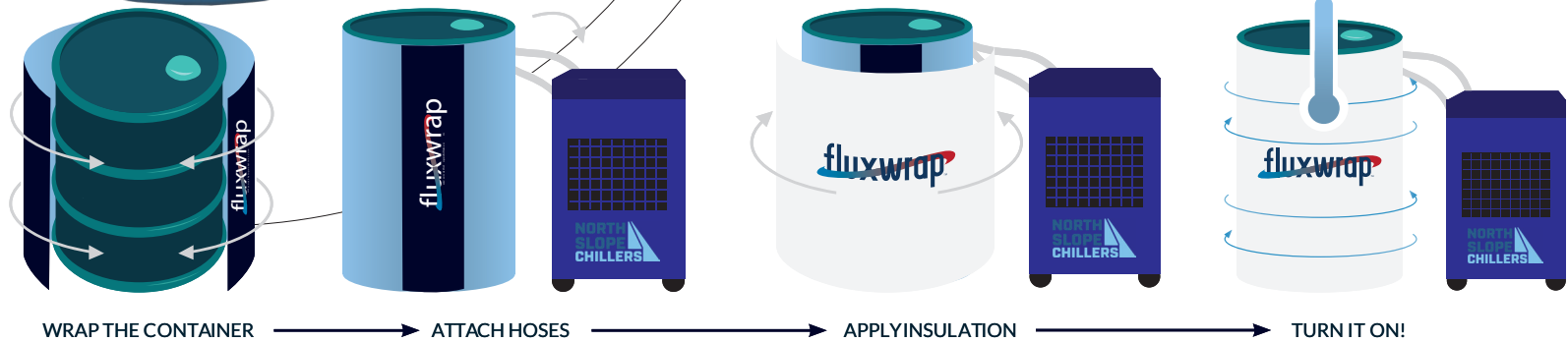
# A CHILLER'S FAVORITE ACCESSORY

Flux wrap can chill materials in drums, totes, tanks and all manner of vessels even when a heat exchanger is not currently present. Fluxwraps allow chilling to be applied to many vessels that were previously not able to be chilled or in situations that previously were not financially feasible. Then simply change the temperature of the fluid, and you have an effective medium for heating. Fluxwrap is a versatile fluid temperature control solution.

Shortest Industry Lead Times  
**Made in the USA**  
 Award-Winning Manufacturer



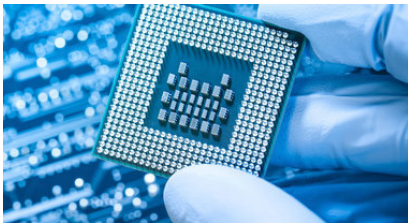
**USING FLUXWRAP WITH NORTH SLOPE CHILLERS IS SIMPLE**



# AIR LIQUIDE FLUID TEMPERATURE CONTROL

## WITH NORTH SLOPE CHILLERS

North Slope Chillers, a Powerblanket company, solves every kind of temperature problem from simple to very complex in a very short turnaround time.



### WHO NEEDED A SOLUTION?

The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 65,000 employees and serves more than 3.5 million customers and patients. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

The leader in molecule design, manufacturing and delivery, they contribute to the innovation in the electronics industry. They engineer innovative and cost-effective solutions and keep improving products and processes to move nanotechnology forward.

### WHAT WAS THE PROBLEM?

Air Liquide moves dichlorosaline gas from 1 ton cylinders to smaller, portable containers for distribution. The major hurdle they faced came as the gas became too cold in winter and cold conditions, preventing the container from draining completely. Ideally, this gas needed to maintain a regular temperature of 120° F to flow correctly in the winter. This is also a hazardous gas: extremely flammable chemical (C1D2). Two issues needed to be addressed and required the expertise of North Slope Chillers custom engineers: maintain temperature to improve flow and create a solution safe



for a highly flammable application. Cold weather can wreak havoc on gas cylinders. When the temperature drops, it's very difficult to maintain optimal pressure. This prevents the gas from vaporizing which in turn renders the gas cylinders unusable. Heat increases flow to fill more tanks, which in turn increases productivity.

### THE NORTH SLOPE CHILLERS SOLUTION

Because of the hazardous location, Air Liquide did not want to use Powerblanket's standard electric blankets. North Slope Chillers developed a custom solution for liquid temp control using a boiler system to heat a water/glycol mixture. The heater was positioned safely away from the hazardous area and pumped heated mixture into our signature fluid control jacket, Fluxwrap.

### LASTING BENEFITS

The custom solution is performing even better than expected. Because of the increased consistent heat, Air Liquide is nearly doubling their daily output. The colder it is outside, the lower the pressure will be in the tank; conversely, the higher the temperature, the higher the pressure. Air Liquide's gas volume is directly related to the temperature. North Slope Chillers' custom solution has optimized the system and improved operations.

# POWERBLANKET STANDARD PRODUCT SPECS

Product Category	Model #	Temperature Control	Approximate Product Temp*	Container Volume	Container Dimensions	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
BUCKET HEATERS	BH05RR	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	5 Gal / 19 L	11.8"D x 15.6"H/ 30 cm D x 40 cm H	15 AMP Plug	120V	120W	1.00A	4 lbs / 2 kg
	BH05PRO	Programmable Digital Controller	up to 145° F (± 5° F) / 63° C (± 3° C)	5 Gal / 19 L	11.8"D x 15.6"H/ 30 cm D x 40 cm H	15 AMP Plug	120V	160W	1.33A	6 lbs / 3 kg
DRUM HEATERS**	BH15RR	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	15 Gal / 57 L	14.5"D x 26.3"H/ 37 cm D x 67 cm H	15 AMP Plug	120V	320W	2.67A	7 lbs / 3 kg
	BH15PRO	Programmable Digital Controller	up to 145° F (± 5° F) / 63° C (± 3° C)	15 Gal / 57 L	14.5"D x 26.3"H/ 37 cm D x 67 cm H	15 AMP Plug	120V	400W	3.33A	9 lbs / 4 kg
	BH30RR	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	30 Gal / 114 L	20"D x 29.5"H/ 51 cm D x 75 cm H	15 AMP Plug	120V	560W	4.67A	9 lbs / 4 kg
	BH30PRO	Programmable Digital Controller	up to 145° F (± 5° F) / 63° C (± 3° C)	30 Gal / 114 L	20"D x 29.5"H/ 51 cm D x 75 cm H	15 AMP Plug	120V	720W	6.00A	11 lbs / 5 kg
	BH55RR-80	Internal Preset	80° F (± 10° F) / 27° C (± 5° C)	55 Gal / 208 L	23.3"D x 34.9"H/ 59 cm D x 89 cm H	15 AMP Plug	120V	800W	6.67A	11 lbs / 5 kg
	BH55RR-100	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	55 Gal / 208 L	23.3"D x 34.9"H/ 59 cm D x 89 cm H	15 AMP Plug	120V	800W	6.67A	11 lbs / 5 kg
	BH55RR-120	Internal Preset	120° F (± 10° F) / 49° C (± 5° C)	55 Gal / 208 L	23.3"D x 34.9"H/ 59 cm D x 89 cm H	15 AMP Plug	120V	800W	6.67A	11 lbs / 5 kg
BH55PRO	Programmable Digital Controller	up to 145° F (± 5° F) / 63° C (± 3° C)	55 Gal / 208 L	23.3"D x 34.9"H/ 59 cm D x 89 cm H	15 AMP Plug	120V	800W	6.67A	13 lbs / 6 kg	

DRUM & BUCKET HEATERS

Product Category	Model #	Temperature Control	Approximate Product Temp*	Container Volume	Container Dimensions	Plug Type	AC Voltage	Wattage (+/-5%)	Amps	Approximate Weight/ Mass
IBC TOTE HEATERS	TH250	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	250 Gallon / 950 L	48"L x 42"W x 35"H	15 AMP Plug	120V	1033	8.6	39 lbs / 18 kg
	TH250-240V	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	250 Gallon / 950 L	48"L x 42"W x 35"H	15 AMP Plug	240V	1650	6.8	39 lbs / 18 kg
	TH275	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	275 Gallon / 1040 L	48"L x 40"W x 46"H	15 AMP Plug	120V	1440	12	41 lbs / 19 kg
	TH275-240V	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	275 Gallon / 1000 L	48"L x 40"W x 46"H	15 AMP Plug	240V	2400	10	41 lbs / 19 kg
	TH330	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	330 Gallon / 1250 L	48"L x 40"W x 53"H	15 AMP Plug	120V	1440	12	45 lbs / 20 kg
	TH330-240V	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	330 Gallon / 1250 L	48"L x 40"W x 53"H	15 AMP Plug	240V	2400	10	45 lbs / 20 kg
	TH350	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	350 Gallon / 1325 L	48"L x 42"W x 47"H	15 AMP Plug	120V	1440	12	47 lbs / 21 kg
	TH350-240V	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	350 Gallon / 1325 L	48"L x 42"W x 47"H	15 AMP Plug	240V	2400	10	47 lbs / 21 kg
	TH450	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	450 Gallon / 1325 L	48"L x 42"W x 59"H	15 AMP Plug	120V	1440	12	50 lbs / 23 kg
	TH450-240V	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	450 Gallon / 1325 L	48"L x 42"W x 59"H	15 AMP Plug	240V	2400	10	50 lbs / 23 kg
	TH550	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	550 Gallon / 1325 L	48"L x 42"W x 71"H	15 AMP Plug	120V	1440	12	53 lbs / 24 kg
TH550-240V	Programmable Digital Controller	up to 145° F (+ 5° F) / 63° C (+/- 3° C)	550 Gallon / 1325 L	48"L x 42"W x 71"H	15 AMP Plug	240V	2400	10	53 lbs / 24 kg	
DEF TOTE HEATERS	TH275D	Internal Preset	70° F (+ 10° F) / 21° C (+/- 5° C)	275 Gallon / 1000 L	48"L x 40"W x 46"H	15 AMP Plug	120V	1440	12	100 lbs / 45 kg
	TH330D	Internal Preset	70° F (+ 10° F) / 21° C (+/- 5° C)	330 Gallon / 1250 L	48"L x 40"W x 53"H	15 AMP Plug	120V	1440	12	105 lbs / 48 kg

IBC TOTE & DEF TOTE HEATERS

Product Category	Model #	Temperature Control	Approximate Product Temp*	Container Volume	Container Dimensions	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
GAS CYLINDER HEATERS	GCW20	Internal Preset	90° F (± 10° F) / 32°C (± 5° C)	20 lb Tank	12.2" D x 18" H / 31cm x 46cm	15 AMP Plug	120V	120W	1.00A	4 lbs / 2 kg
	GCW30	Internal Preset	90° F (± 10° F) / 32°C (± 5° C)	30 lb Tank	12.2" D x 24" H / 31cm x 61cm	15 AMP Plug	120V	160W	1.33A	6 lbs / 3 kg
	GCW40	Internal Preset	90° F (± 10° F) / 32°C (± 5° C)	40 lb Tank	12.2" D x 29" H / 31cm x 74cm	15 AMP Plug	120V	280W	2.33A	8 lbs / 4 kg
	GCW100	Internal Preset	90° F (± 10° F) / 32°C (± 5° C)	100 lb Tank	15.1" D x 48" H / 38cm x 122cm	15 AMP Plug	120V	560W	4.67A	12 lbs / 5.5 kg
	GCW420	Internal Preset	90° F (± 10° F) / 32°C (± 5° C)	420 lb Tank	30" D x 52" H / 76cm x 132cm	15 AMP Plug	120V	960W	8.00A	18 lbs / 8 kg

GAS CYLINDER WARMERS

STANDARD SPECIFICATIONS		
	MINIMUM	MAXIMUM
VOLTAGE	48	250
POWER DENSITY (W/ft^2)	5	75
ELECTRICAL CURRENT (A)	0.1	24
MATERIAL WIDTH (in.)	6	60
HEATED WIDTH (in.)	5	59
OVERALL THICKNESS (mils)	6	12

\*If our standard Powerblanket Core offering does not fit your needs, we can work with you to develop the best solution for your application. We can provide watt density from 1 to 100. Please contact us directly to discuss OEM product options: custom sizes, product thickness, and variable voltages.

\*\*Insulated tops and bottoms available for all drum heater sizes.

PB CORE OEM HEATING

## POWERBLANKET STANDARD PRODUCT SPECS

Product Category	Model #	Temperature Control	Approximate Product Temp*	Container Volume	Container Dimensions	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
HOT BOXES	HB48-1200	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	N/A	48"L x 36"W x 48"H	15 AMP Plug	120V	1200W	10.00A	50 lbs / 22.5 kg
	HB54-1200	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	N/A	48"L x 40"W x 48"H	15 AMP Plug	120V	1200W	10.00A	50 lbs / 22.5 kg
	HB64PRO-1440	Programmable Digital Controller	100° F (± 10° F) / 38° C (± 5° C)	N/A	48"L x 48"W x 48"H	15 AMP Plug	120V	1440W	12.00A	75 lbs / 34 kg
	HB64ROOF	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	N/A	48"L x 48"W x 48"H	15 AMP Plug	120V	1440W	12.00A	73 lbs / 34 kg
Product Category	Model #	Temperature Control	Heated Dimensions	Finished Dimensions	Heated Area	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
GROUND THAWING BLANKETS	EH0509	Internal Preset	5' x 9' / 1.52m x 2.7m	6' x 10' / 1.83m x 3.0m	45 sq ft / 4.2 sq m	20 AMP Plug	120V	1650W	13.8A	25 lbs / 11 kg
	EH0325	Internal Preset	3' x 25' / 0.91m x 7.6m	4' x 26' / 1.22m x 7.9m	75 sq ft / 7.0 sq m	30 AMP Plug, L5-30P	120V	2750W	22.9A	38 lbs / 17 kg
	EH0310	Internal Preset	3' x 10' / 0.91m x 3.0m	4' x 11' / 1.22m x 3.4m	30 sq ft / 2.8 sq m	15 AMP Plug	120V	1100W	9.17A	15 lbs / 7 kg
	EH0304	Internal Preset	3' x 4' / 0.91m x 1.22m	4' x 5' / 1.22m x 1.52m	12 sq ft / 1.11 sq m	15 AMP Plug	120V	400W	3.33A	6 lbs / 3 kg
	EH0202	Internal Preset	1.85' x 1.85' / 0.57m x 0.57m	2' x 2' / 0.61m x 0.61m	3.4 sq ft / 0.32 sq m	15 AMP Plug	120V	95W	0.79A	3 lbs / 1.5 kg
Product Category	Model #	Temperature Control	Heated Dimensions	Finished Dimensions	Heated Area	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
CONCRETE CURING BLANKETS	MD1010	Internal Preset	10' x 10' / 3.0m x 3.0m	12' x 12' / 3.6m x 3.6m	100 sq ft / 9.3 sq m	15 AMP Plug	120V	1440W	12A	50 lbs / 23 kg
	MD0520	Internal Preset	5' x 20' / 1.52m x 6.1m	6' x 21' / 1.83m x 6.4m	100 sq ft / 9.3 sq m	15 AMP Plug	120V	1440W	12A	50 lbs / 23 kg
	MD0510	Internal Preset	5' x 10' / 1.52m x 3.0m	6' x 11' / 1.83m x 3.4m	50 sq ft / 4.6 sq m	15 AMP Plug	120V	720W	6A	25 lbs / 11 kg
	MD0320	Internal Preset	3' x 20' / 0.91m x 6.1m	4' x 21' / 1.22m x 6.4m	60 sq ft / 5.6 sq m	15 AMP Plug	120V	960W	8A	30 lbs / 14 kg
	MD0310	Internal Preset	3' x 10' / 0.91m x 3.0m	4' x 11' / 1.22m x 3.4m	30 sq ft / 2.8 sq m	15 AMP Plug	120V	480W	4A	15 lbs / 7 kg
	MD0304	Internal Preset	3' x 4' / 0.91m x 1.22m	4' x 5' / 1.22m x 1.52m	12 sq ft / 1.11 sq m	15 AMP Plug	120V	240W	2A	6 lbs / 3 kg

HOT BOXES

GROUND THAWING

CONCRETE CURING

**POWERBLANKET STANDARD PRODUCT SPECS**

Product Category	Model #	Temperature Control	Max Product Temp* (With Max # of Blankets)	Max # of Blankets used Per Container	Container Volume Size	Container Dimensions	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
PB LITE BARREL HEATERS	PBL05	Internal Preset	145° ± (10° F)/63°C (± 5° C)	1	5 Gallon / 19 Liter Bucket	11.8"D x 15.6"H	15 AMP Plug	120V	120W	1A	2 lbs / 1 kg
	PBL15	Internal Preset	145° ± (10° F)/63°C (± 5° C)	2	15 Gallon / 57 Liter Bucket	14.4"D x 26.3"H	15 AMP Plug	120V	180W	1.5A	3 lbs / 1.5 kg
	PBL30	Internal Preset	145° ± (10° F)/63°C (± 5° C)	2	30 Gallon / 114 Liter Drum	12.5"Dx24"H / 32cmx61cm	15 AMP Plug	120V	280W	2.33A	4 lbs / 2 kg
	PBL55	Internal Preset	145° ± (10° F)/63°C (± 5° C)	3	55 Gallon / 208 Liter Drum	23.3"D x 34.9"H	15 AMP Plug	120V	240W	2A	3 lbs / 1.5 kg
	PBL55F	Internal Preset	145° ± (10° F)/63°C (± 5° C)	1	55 Gallon / 208 Liter Drum	23.3"D x 34.9"H	15 AMP Plug	120V	400W	3.33A	10 lbs / 5 kg
PB LITE GAS CYLINDER HEATERS (PROPANE)	PBL20	Internal Preset	90° ± (10° F) / 32°C (± 5° C)	1	Gas Cylinder Heaters (Propane)	12.5"Dx18"H / 32cmx46cm	15 AMP Plug	120V	120W	1A	2 lbs / 1 kg
	PBL100	Internal Preset	90° ± (10° F) / 32°C (± 5° C)	2	Gas Cylinder Heaters (Propane)	14.5"Dx48"H / 37cmx122cm	15 AMP Plug	120V	280W	2.33A	4 lbs / 2 kg
	PBL420	Internal Preset	90° ± (10° F) / 32°C (± 5° C)	2	Gas Cylinder Heaters (Propane)	30"Dx52"H / 76cmx132cm	15 AMP Plug	120V	400W	3.33A	7 lbs / 3 kg
	PBL500	Internal Preset	90° ± (10° F) / 32°C (± 5° C)	1	Gas Cylinder Heaters (Propane)	37"Dx120"L / 94cmx305cm	15 AMP Plug	120V	720W	6A	9lbs / 4 kg
	PBL1K	Internal Preset	90° ± (10° F) / 32°C (± 5° C)	1	Gas Cylinder Heaters (Propane)	41"D182"L / 104cmx462cm	15 AMP Plug	120V	1400W	12A	17lbs / 8 kg
PB LITE HOT BOX HEATERS	PBLHB48-800	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	N/A	N/A	48"L x 36"W x 48"H	15 AMP Plug	120V	800W	6.67A	40 lbs / 18 kg
	PBLHB54-800	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	N/A	N/A	48"L x 40"W x 48"H	15 AMP Plug	120V	800W	6.67A	43 lbs / 19.5 kg
PB LITE PAIL HEATERS	PBL1G	Internal Preset	70° F (± 10° F) / 21° C (± 5° C)	1	1 Gallon / 4 Liter Pail	6.5"D x 7.5"H	15 AMP Plug	120V	45W	0.38A	1 lbs / 0.5 kg
	PBL2G	Internal Preset	70° F (± 10° F) / 21° C (± 5° C)	1	2 Gallon / 8 Liter Pail	9.2"D x 9.5" H	15 AMP Plug	120V	45W	0.38A	1 lbs / 0.5 kg
PB LITE EQUIPMENT HEATERS	PBLCAUW	Internal Preset	70° F (± 10° F) / 21° C (± 5° C)	N/A	Equipment Heater	Fits 5 10.1 oz caulk containers	15 AMP Plug	120V	45W	0.38A	2 lbs / 1 kg

All Standard AC Products are Certified by ETL to Applicable ANSI/UL/CSA (cETLus). Most products can be built to CE Safety Standards (CE). Additional specifications available including: 240 VAC and Class I Division 2 Groups A through D ; T4

Powerblanket reserves the right to improve products and change specifications without notification  
\*All temperatures may vary based on boundary conditions

PB LITE HEATERS

Product Category	Model #	Temperature Control	Approx Product Temperature	Container Volume	Container Dimensions	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/Mass
BEE BLANKETS	BB05	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	5 Gallon / 19 L	11.8"D x 15.6"H	15 AMP Plug	120V	120W	1A	4 lbs / 2 kg
	BB05GV	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	5 Gallon / 19 L	11.8"D x 15.6"H	15 AMP Plug	120V	120W	1A	4 lbs / 2 kg
	BB05-240V	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	5 Gallon / 19 L	11.8"D x 15.6"H	15 AMP Plug	240V	120W	0.5A	4 lbs / 2 kg
	BB05PRO	Programmable Digital Controller	up to 145° F (± 5° F) / 63° C (± 3° C)	5 Gallon / 19 L	11.8"D x 15.6"H	15 AMP Plug	120V	120W	1A	4 lbs / 2 kg
	BB55	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	55 Gallon / 208 L	23.3"D x 34.9"H	15 AMP Plug	120V	800W	6.67A	11 lbs / 5 kg
	BB55-240V	Internal Preset	100° F (± 10° F) / 38° C (± 5° C)	55 Gallon / 208 L	23.3"D x 34.9"H	15 AMP Plug	240v	800W	3.33A	11 lbs / 5 kg
	BB55PRO	Programmable Digital Controller	up to 145° F (± 5° F) / 63° C (± 3° C)	55 Gallon / 208 L	23.3"D x 34.9"H	15 AMP Plug	120V	800W	6.67A	11 lbs / 5 kg
	BBHB48-800	Internal Preset	100° F (+- 10° F) / 38° C (+- 5° C)	Covers 48"x36" pallet, 48" tall	Covers 48"x36" pallet, 48" tall	48"L x 36"W x 48"H	15 AMP Plug	120V	800W	6.67A

BEE BLANKETS

## POWERBLANKET STANDARD PRODUCT SPECS

Product Category	Model #	Temperature Control	Heated Dimensions	Finished Dimensions	Heated Area	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
CUREPRO CONCRETE CURING BLANKETS	CONCRETE-0520	Internal Preset	5' x 20' / 1.52m x 6.1m	6' x 21' / 1.83m x 6.4m	100 sq ft / 9.3 sq m	15 AMP Plug	120V	1440W	12A	50 lbs / 23 kg
	CONCRETE-0310	Internal Preset	3' x 10' / 0.91m x 3.0m	4' x 11' / 1.22m x 3.4m	30 sq ft / 2.8 sq m	15 AMP Plug	120V	500W	4.2A	15 lbs / 7 kg
	CONCRETE-0304	Internal Preset	3' x 4' / 0.91m x 1.22m	4' x 5' / 1.22m x 1.52m	12 sq ft / 1.11 sq m	15 AMP Plug	120V	250W	2.1A	6 lbs / 3 kg

CUREPRO  
CONCRETE  
CURING  
BLANKETS

Product Category	Model #	Temperature Control	Heated Dimensions	Finished Dimensions	Heated Area	Plug Type	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
THAWPRO GROUND THAWING BLANKETS	THAW-0509	Internal Preset	5' x 9' / 1.52m x 2.7m	6' x 10' / 1.83m x 3.0m	45 sq ft / 4.2 sq m	20 AMP Plug	120V	1840W	16A	25 lbs / 11 kg
	THAW-0310	Internal Preset	3' x 10' / 0.91m x 3.0m	4' x 11' / 1.22m x 3.4m	30 sq ft / 2.8 sq m	15 AMP Plug	120V	1440W	12A	15 lbs / 7 kg
	THAW-0304	Internal Preset	3' x 4' / 0.91m x 1.22m	4' x 5' / 1.22m x 1.52m	12 sq ft / 1.11 sq m	15 AMP Plug	120V	500W	4.2A	6 lbs / 3 kg

THAWPRO  
GROUND  
THAWING  
BLANKETS

Product Category	Model #	Temperature Control	Approximate Product Temp*	Container Volume	Container Dimensions	AC Voltage	Nominal Power	Nominal Amperage	Approximate Weight/ Mass
HAZARDOUS AREA HEATERS	BH55-C1D2T4-100F	Internal Preset	80° F (± 20° F) / 27° C (± 7° C)	55 Gal / 208 L	23.3"D x 34.9"H / 59 cm D x 89 cm H	120V	800	6.67	11 lbs / 5 kg
	TH275-CID2-122F	Internal Preset	80° F (+, -20° F) / 27° C (+, -7° C)	275 Gallon / 1000 L	48"L x 40"W x 46"H	120V	1440	12	100 lbs / 45 kg
	TH330-CID2-122F	Internal Preset	80° F (+, -20° F) / 27° C (+, -7° C)	330 Gallon / 1250 L	48"L x 40"W x 53"H	120V	1440	12	105 lbs / 48 kg
*Cord length is 33 ft w/ no plug									

HAZARDOUS  
AREA  
HEATERS

# NORTH SLOPE CHILLERS STANDARD PRODUCT SPECS

Model Number	Fluid Temp Range (F)	Ambient Temp Range	Refrigerant	Inlet/Outlet	Pump			Reservoir Capacity	Cooling Capacity (BTU/hr)	Dimensions	Max Amps (FLA)	Recommended Breaker/Service (MCA)	Available Voltages
NSC0300	15°F - 65°F	35°F - 100°F	r134a	5/8"	6.0 GPM Pump	60 Watt Centrifugal Pump	1 GPM @ 15 PSI 4 GPM @ 10 PSI 6 GPM @ 7 PSI	2.5 Gallon Poly Tank	15°F - 2,000 BTU/hr 45°F - 3,100 BTU/hr 65°F - 4,000 BTU/hr	18 5/8"L x 16"W x 19"H	10.5A @ 110/1/60	15 Amp	120/1/60
NSC0500	40°F - 75°F	40°F - 100°F	R134a	1/2" NPT	Continuous Duty, non-ferrous	1/3 HP Fixed Displacement Pump	4 GPM Fixed 50 PSI Max	4 Gallon Poly Tank	40°F - 3,800 BTU/hr 65°F - 6,000 BTU/hr	28 1/4"L x 22 1/2"W x 32 1/2"H	15.6 Amps (std) 9.1 Amps	20 Amp (std) 15 Amp	120/1/60 (std) 208-240/1/60
NSC1000	40°F - 75°F	40°F - 100°F	R134a	1/2" NPT	Continuous Duty, non-ferrous	1/3 HP Fixed Displacement Pump	4 GPM Fixed 50 PSI Max	15 Gallon Poly Tank	40°F - 7,600 BTU/hr 65°F - 12,000 BTU/hr	34 1/2"L x 28 1/4"W x 39"H	16.3 Amps (std) 14 Amps 6 Amps	20 Amp (std) 20 Amp 15 Amp	208-240/1/60 (std) 208-240/3/60 480/3/60
NSC2000	40°F - 75°F	40°F - 100°F	R134a	3/4" NPT	Continuous Duty, Stainless Steel	3/4 HP Centrifugal Pump	15 GPM @ 28 PSI 25 GPM @ 23 PSI 35 GPM @ 16 PSI 45 GPM Max	15 Gallon Poly Tank	40°F - 16,100 BTU/hr 65°F - 25,400 BTU/hr	34 3/4"L x 43 1/4"W x 40"H	30.9 Amps (std) 20.1 Amps 9.2 Amps	40 Amp (std) 25 Amp 15 Amp	208-240/1/60 (std) 208-240/3/60 480/3/60
NSC5000	40°F - 65°F	40°F - 100°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	1-1/2 HP Centrifugal Pump	15 GPM @ 39 PSI 30 GPM @ 35 PSI 45 GPM @ 28 PSI 60 GPM Max	50 Gallon Poly Tank	40°F - 41,400 BTU/hr 65°F - 60,500 BTU/hr	34"L x 65"W x 62"H	29.3 Amps 13.6 Amps (std)	35 Amp 20 Amp (std)	208-240/3/60 480/3/60 (std)
NSC5000E	40°F - 65°F	0°F - 100°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	1-1/2 HP Centrifugal Pump	15 GPM @ 39 PSI 30 GPM @ 35 PSI 45 GPM @ 28 PSI 60 GPM Max	50 Gallon Poly Tank	40°F - 41,400 BTU/hr 65°F - 60,500 BTU/hr	34"L x 65"W x 62"H	29.3 Amps 13.6 Amps (std)	35 Amp 20 Amp (std)	208-240/3/60 480/3/60 (std)
NSC10000	40°F - 65°F	40°F - 100°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	2 HP Centrifugal Pump	15 GPM @ 54 PSI 30 GPM @ 48 PSI 45 GPM @ 40 PSI 65 GPM Max	50 Gallon Poly Tank	40°F - 83,000 BTU/hr 65°F - 120,000 BTU/hr	34"L x 65"W x 62"H	26.6 Amps (std)	35 Amp (std)	480/3/60 (std)
NSC10000E	40°F - 65°F	0°F - 100°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	2 HP Centrifugal Pump	15 GPM @ 54 PSI 30 GPM @ 48 PSI 45 GPM @ 40 PSI 65 GPM Max	50 Gallon Poly Tank	40°F - 83,000 BTU/hr 65°F - 120,000 BTU/hr	34"L x 65"W x 62"H	26.6 Amps (std)	35 Amp (std)	480/3/60 (std)

FREEZE

Model Number	Maximum Pressure Rating	Flow Rate	Connection	Max Temperature	Approx Fluid Volume	Cooling Fluid	Wrap Dimensions	Min/Max Surface Temperature
FLUX05	6 PSI @ inlet	4 GPM @ 5 PSI	3/4" Barbed Fitting	120°F (70°F Water/Glycol mix)	1/8 Gallon	"Water (if fluid temp is greater than 45F) -OR- Propylene Glycol / Water (50/50 max concentration) -OR- Ethylene Glycol / Water (50/50 max concentration)"	38" x 8 1/4"	-10°F/150°F -23.3°C/65.5°C
FLUX15					3/4 Gallon		47" x 22 3/4"	
FLUX30					5/8 Gallon		60" x 23 1/4"	
FLUX55					1 1/2 Gallon		76" x 30 1/4"	
FLUX275					4 Gallons		Panel a - 1x) 44" x 38 1/2" Panel b - 2x) 45 3/4" x 38 1/2" Panel c - 1x) 39" x 30 3/4"	

FLUXWRAP

Product	Model	Description	Ice Packs
IceWrap	PBICE05IP	Ice Wrap-5 Gallon Drum	8 Ice Packs
	PBICE015IP	Ice Wrap-15 Gallon Drum	12 Ice Packs
	PBICE030IP	Ice Wrap-30 Gallon Drum	18 Ice Packs
	PBICE055IP	Ice Wrap-55 Gallon Drum	24 Ice Packs
Keg Cooler	PBICEKEGIP	Ice Wrap-Keg	12 Ice Packs

ICEWRAP

## NORTH SLOPE CHILLERS STANDARD PRODUCT SPECS

Model Number	Fluid Temp Range (F)	Ambient Temp Range	Refrigerant	Inlet/Outlet	Pump			Reservoir Capacity	Cooling Capacity (BTU/hr)	Dimensions	Max Amps (FLA)	Recommended Breaker/Service (MCA)	Available Voltages
NSC0500-LT	10°F - 45°F	40°F - 100°F	R404a	1/2" NPT	Continuous Duty, non-ferrous	1/3 HP Fixed Displacement Pump	4 GPM Fixed 50 PSI Max	4 Gallon Poly Tank	10°F - 2,500 BTU/hr 45°F - 5,070 BTU/hr	28.25"L x 22.5"W x 32.5"H	16.6 Amps	20 Amp	120/1/60 (std)
NSC1000-LT	10°F - 45°F	40°F - 100°F	R404a	1/2" NPT	Continuous Duty, non-ferrous	1/3 HP Fixed Displacement Pump	4 GPM Fixed 50 PSI Max	15 Gallon Poly Tank	10°F - 5,900 BTU/hr 45°F - 11,900 BTU/hr	34½"L x 28¾"W x 39"H	16.3 Amps (std) 14 Amps 6 Amps	20 Amp (std) 20 Amp 15 Amp	208-240/1/60 (std) 208-240/3/60 480/3/60
NSC2000-LT	10°F - 45°F	40°F - 100°F	R404a	3/4" NPT	Continuous Duty, Stainless Steel	3/4 HP Centrifugal Pump	15 GPM @ 28 PSI 25 GPM @ 23 PSI 35 GPM @ 16 PSI 45 GPM Max	15 Gallon Poly Tank	10°F - 13,800 BTU/hr 45°F - 27,200 BTU/hr	34¾"L x 43¾"W x 40"H	30.9 Amps (std) 20.1 Amps 9.2 Amps	40 Amp (std) 25 Amp 15 Amp	208-240/1/60 (std) 208-240/3/60 480/3/60
NSC5000-LT	10°F - 45°F	40°F - 90°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	1-1/2 HP Centrifugal Pump	15 GPM @ 39 PSI 30 GPM @ 35 PSI 45 GPM @ 28 PSI 60 GPM Max	50 Gallon Poly Tank	0°F - 19,200 BTU/hr 45°F - 44,900 BTU/hr	34"L x 65"W x 62"H	29.3 Amps 13.6 Amps (std)	35 Amp 20 Amp (std)	208-240/3/60 480/3/60 (std)
NSC5000E-LT	10°F - 45°F	0°F - 90°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	1-1/2 HP Centrifugal Pump	15 GPM @ 39 PSI 30 GPM @ 35 PSI 45 GPM @ 28 PSI 60 GPM Max	50 Gallon Poly Tank	0°F - 19,200 BTU/hr 45°F - 44,900 BTU/hr	34"L x 65"W x 62"H	29.3 Amps 13.6 Amps (std)	35 Amp 20 Amp (std)	208-240/3/60 480/3/60 (std)
NSC10000-LT	10°F - 45°F	40°F - 90°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	2 HP Centrifugal Pump	15 GPM @ 54 PSI 30 GPM @ 48 PSI 45 GPM @ 40 PSI 65 GPM Max	50 Gallon Poly Tank	15°F - 53,000 BTU/hr 45°F - 90,000 BTU/hr	34"L x 65"W x 62"H	26.6 Amps (std)	35 Amp (std)	480/3/60 (std)
NSC10000E-LT	10°F - 45°F	0°F - 90°F	R404a	1-1/4" NPT	Continuous Duty, Stainless Steel	2 HP Centrifugal Pump	15 GPM @ 54 PSI 30 GPM @ 48 PSI 45 GPM @ 40 PSI 65 GPM Max	50 Gallon Poly Tank	15°F - 53,000 BTU/hr 45°F - 90,000 BTU/hr	34"L x 65"W x 62"H	26.6 Amps (std)	35 Amp (std)	480/3/60 (std)
Model Number	Fluid Temp Range (F)	Refrigerant	Condenser	Inlet/Outlet	Pump			Reservoir Capacity	Cooling Capacity (BTU/hr)	Dimensions	Max Amps (FLA)	Recommended Breaker/Service (MCA)	Available Voltages
NSC0500-ULT	-112°F to +70°F -80°C to +21°C	R404a/ R508b	Air-cooled	1/2" NPT	Continuous Duty, Stainless Steel	Fixed Displacement	4 GPM Fixed	5 Gallon Stainless Steel	-40°C (-40°F) - 1,700 Watts (5,800 BTU/hr) -80°C (-112°F) - 600 Watts (2,000 BTU/hr)	28.25"L x 22.5"W x 32.5"H	16 Amps	20 Amp	208-240/3/60 (std)
NSC01000-ULT	-112°F to +70°F -80°C to +21°C	R404a/ R508b	Air-cooled	3/4" NPT	Continuous Duty, Stainless Steel	Fixed Displacement	4 GPM Fixed	10 Gallon Stainless Steel	-40°C (-40°F) - 3,700 Watts (12,000 BTU/hr) -80°C (-112°F) - 1,750 Watts (4,600 BTU/hr)	34½"L x 28¾"W x 39"H	25 Amps (std)	30 Amp (std)	208-240/3/60 (std)
NSC2000-ULT	-112°F to +70°F -80°C to +21°C	R404a/ R508b	Air-cooled	3/4" NPT	Continuous Duty, Stainless Steel	Fixed Displacement	8 GPM Fixed	20 Gallon Stainless Steel	-40°C (-40°F) - 7,000 Watts (24,000 BTU/hr) -80°C (-112°F) - 3,000 Watts (10,200 BTU/hr)	34¾"L x 43¾"W x 40"H	20 Amps (std)	30 Amp (std)	480/3/60 (std)

DEEP FREEZE INDOOR &amp; OUTDOOR INDUSTRIAL CHILLERS

ULTRA-LOW TEMP



## IF A CUSTOM SOLUTIONS IS WHAT YOU NEED, FOLLOW THESE STEPS TO BEGIN YOUR CUSTOM PROCESS

- Gather as much information as possible using the Custom Application Questionnaire. Be thorough.
- The dimension needs to be as built, not a CAD drawing. ALL dimensions must be submitted to the custom team for quote.
- Once quote is accepted and PO is sent, engineering will begin.
- Custom products will normally be completed within two weeks.



**JEN REYES- POWERBLANKET CUSTOM SALES**

We need all of the dimensions that will allow the custom solution to fit like a glove.

### SEND THE COMPLETED QUESTIONNAIRE TO POWERBLANKET

EMAIL: [info@powerblanket.com](mailto:info@powerblanket.com)

FAX: 866.245.9483

**Name:**

**Phone:**

**Email:**

**Company/Job Title:**

1. Which of these best describes the system requiring Cooling: drum/bucket, tote, tank, gas cylinder, pipe, flat surface (vertical or horizontal?), other?
2. Can you provide drawings and/or photos?
3. What are the critical dimensions of the system?
4. What material is the container or surface made of (i.e. tank wall, drum wall)? How thick?
5. What is the substance being Cooled (i.e. water, oil, pipe contents, concrete, frozen ground)?
6. Is this a flowing system? If so, what is the flow rate (include units, gpm, cfm, etc.)?
7. What is the expected ambient temperature (include units, °F, °C)?
8. What is the maximum expected wind velocity (include units, mpg, km/h, etc.)?
9. Are there other environmental conditions that may be relevant?
10. What is the beginning temperature of the substance or contents (include units, °F, °C)?
11. What is the desired final temperature of the substance or contents (include units, °F, °C)?
12. What temperature range is acceptable?
13. Are there upper or lower temperatures where the substance or contents will be damaged?
14. Is there a time frame requirement for the initial cool down?
15. What power source is preferred (120, 208, 240, DC)?
16. How far away is the power source (cord length)?
17. Do you require UL/CSA certified products?
18. Is your location considered hazardous (Class I Division 2)?
19. How many units do you need now and in the future?
20. What is the required delivery date?

NOTES

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