



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.

TABLE OF CONTENTS

| | |
|----|--|
| 3 | Industries We Serve |
| 5 | Custom Solutions |
| | HEATING & FREEZE PROTECTION |
| 21 | Product Class PB, PB Lite |
| 23 | Drum and Bucket Heaters |
| 25 | Tote and DEF Tote Heaters |
| 29 | Roofer Hot Boxes |
| 31 | Gas Cylinder Heaters |
| 35 | Concrete Curing Blankets |
| 39 | Ground Thawing Blankets |
| 41 | Honey Products |
| 44 | Summerstep Snow |

| | |
|----|--|
| | COOLING |
| 45 | North Slope Chillers |
| 47 | Fluxwrap |
| 49 | Air Liquide Fluid Temperature Control Case Study |
| 51 | Spec Sheets |
| 63 | Custom Questionnaire |

powerblanket®

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

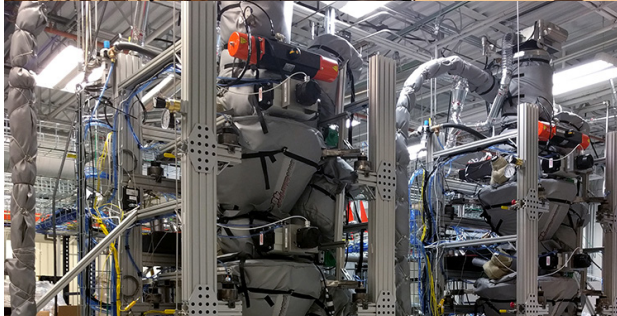
HAZARDOUS LOCATIONS

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

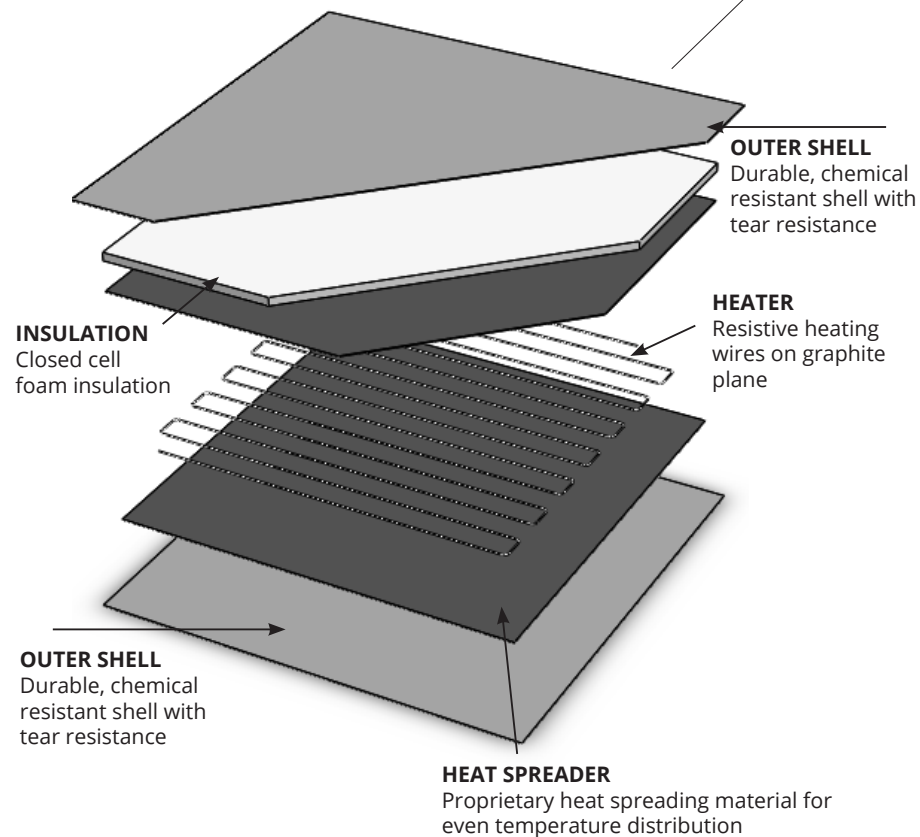
- Available in any width and length required
- Up to 80 Watts per Square Foot
- Maximum internal blanket temperature: $200 \pm 9^{\circ}\text{F}$ ($93 \pm 5^{\circ}\text{C}$)

CUSTOM HIGHER TEMPERATURE SOLUTIONS

- Custom solutions up to 400°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



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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 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 and 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!



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.

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

“

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.

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



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.

**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

“

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

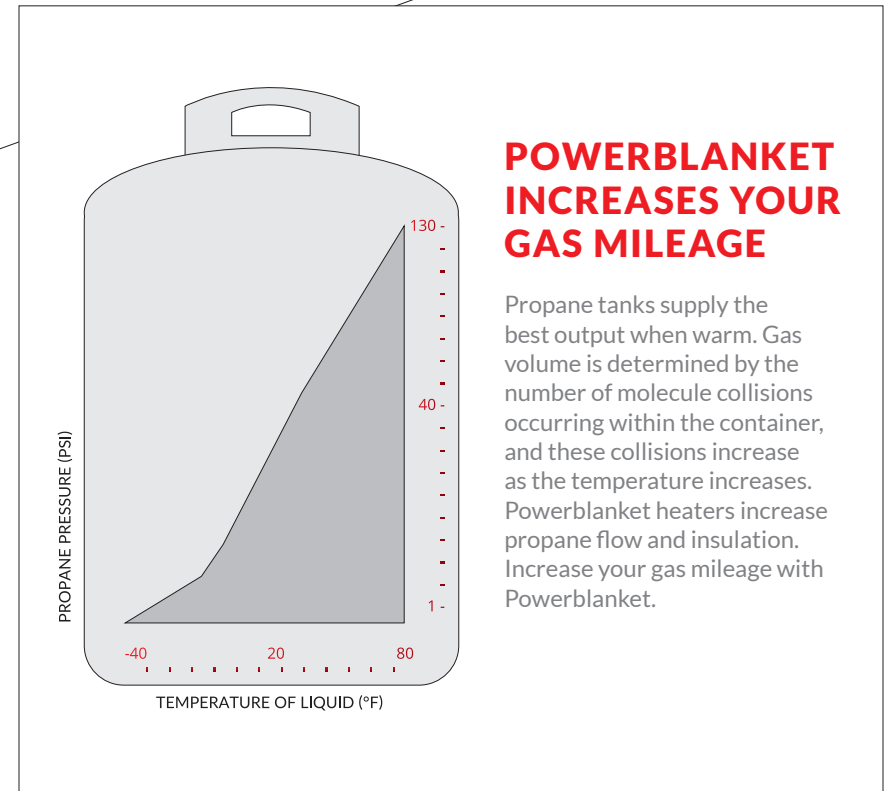
VISCOSITY

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



curepro

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.

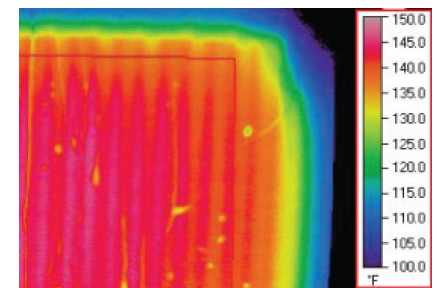
After calculating the savings in fuel, personnel to monitor the open flame, personnel and time to build and move enclosed shelters, and the heaters themselves, Walsh Construction realized it saved more than \$5.43 for every \$1.00 spent on the Powerblanket blankets.

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!



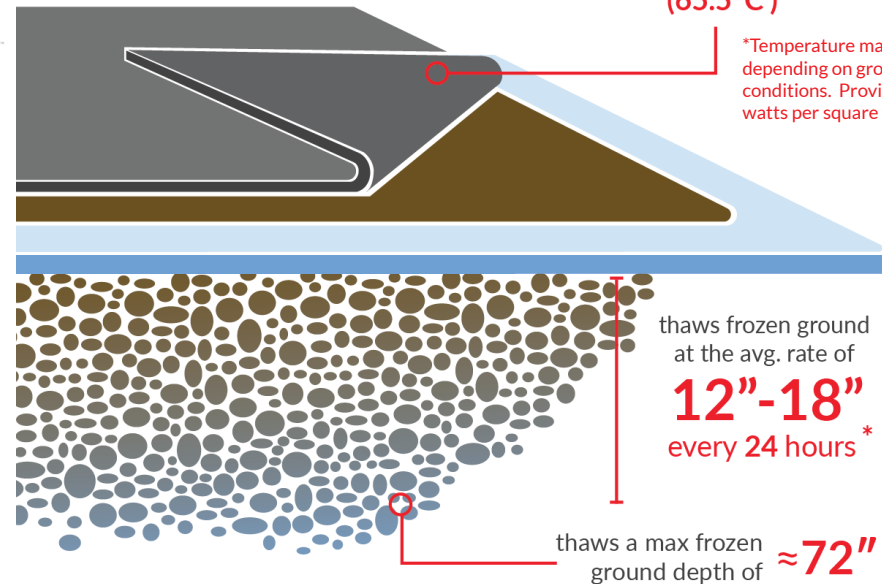
GROUND THAWING BLANKETS

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.

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



**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!

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.

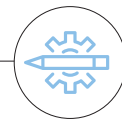


DEEP FREEZE

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.



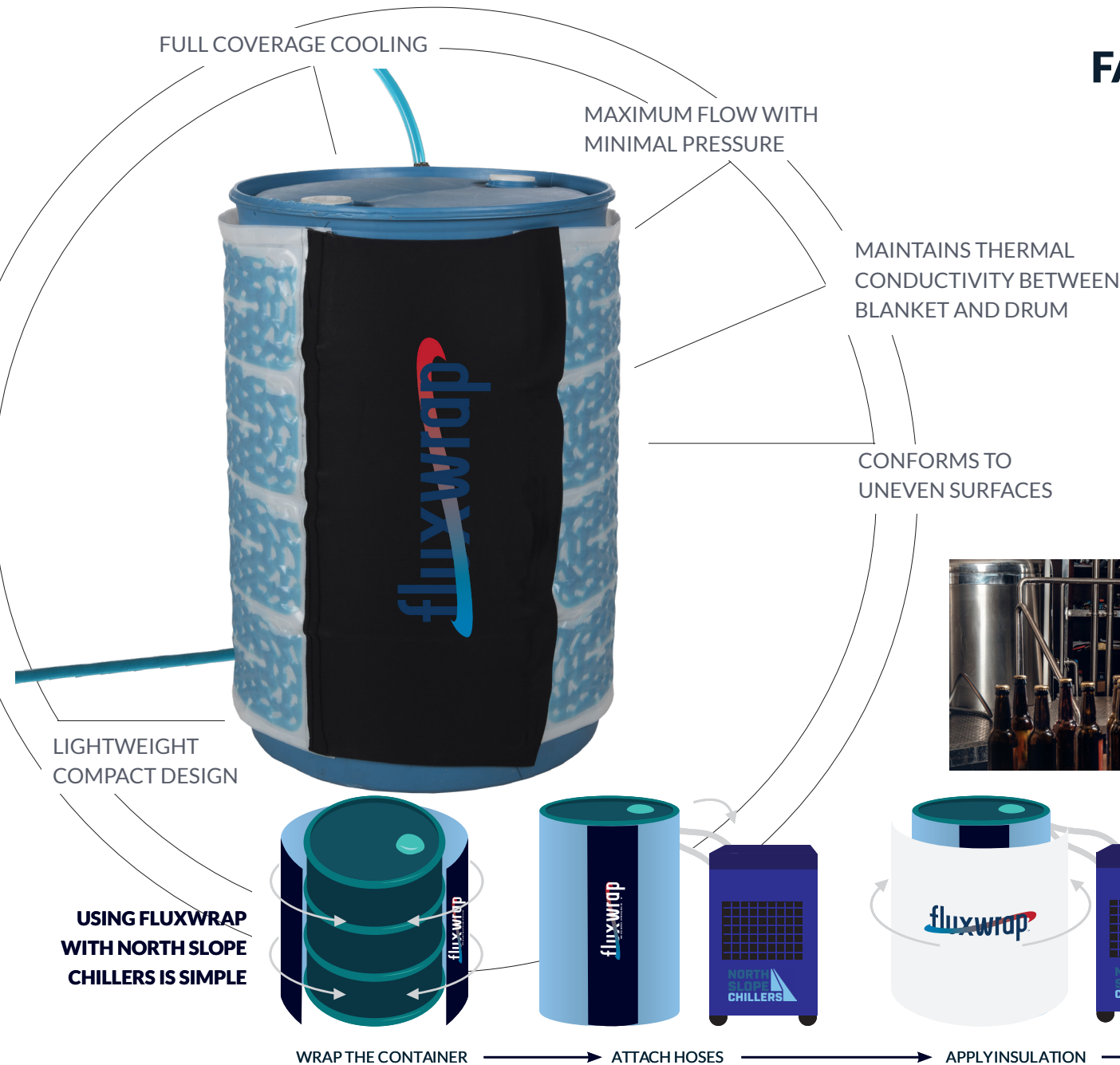
NEED A CUSTOM SOLUTION?

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.

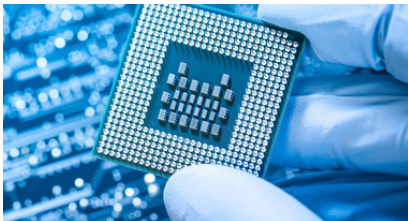
Shortest Industry Lead Times
Made in the USA
 Award-Winning Manufacturer



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 dichlorosilane 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 |
| DEF TOTE HEATERS | 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 |
| | 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 | | | *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. |
|--------------------------|---------|---------|---|
| | 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 | |

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 | HOT BOXES |
| | 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 | GROUND THAWING |
| | 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 | CONCRETE CURING |
| | 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 | |

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 | 48"L x 36"W x 48"H | 15 AMP Plug | 120V | 800W | 6.67A | 40 lbs / 18 kg |

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 | 28¼"L x 22½"W x 32½"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 | 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 | 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 | 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 | 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 | ¾" 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 ½ 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 & OUTDOOR INDUSTRIAL CHILLERS

ULTRA-LOW TEMP

CUSTOM APPLICATION QUESTIONNAIRE



IF A CUSTOM SOLUTION 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

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

[illegible][illegible]



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