

Flexotherm™ Drum Heaters and Insulating Blanket

Fully vulcanized fiberglass-reinforced silicone rubber encapsulating a nickel alloy wire heating element

Flexotherm™ produces drum heaters are thin, flexible electrical resistance heaters that may easily be wrapped and secured around drums, pails and tanks.

They are made of silicone rubber-reinforced fiberglass cloth laminated around a nickel alloy circuit. This construction provides an even heat transfer, which keeps contents at proper handling or process consistency and limits scorching or degradation of sensitive contents. Custom products available.



Available for both metal and non-metal (poly or plastic) drums.

Features:

- Fits four standard drum sizes
- Metal or non-metal drum versions
- 115V and 230V standard; high wattage 115V configuration available
- 3-prong plug or pigtail termination
- Electrically grounded, insulated screen
- Optional adjustable thermostat
- Heavy hook and spring attachment
- Resistant to many chemical substances
- Components UL Recognized and CSA Certified

Applications:

Viscosity control, freeze protection, temperature maintenance and melting of solids for:

- Adhesives
- Biofuels
- Mastics
- Plastics
- Resins
- Paints and varnishes
- Waxes
- Oils, fats and greases
- Molasses, syrups, chocolate
- Much more

UL and CSA Certified Components

Operating Temperature of 300°F

Drum Heater/Insulating Blanket Sets

Model Number	Fits Drum Size (Gal.)	Drum Material	Wattage (W)
IB-55	55	METAL	NONE
BXH-55-115-TS	55	NON-METAL	750
BXH-55-230-TS	55	NON-METAL	750
BH-55-115-TS	55	METAL	1000
BH-55-230-TS	55	METAL	1000
BHW-55-115-TS	55	METAL	1500
BHW-55-230-TS	55	METAL	1500

Warranty

All of our quality heated products are backed by a limited Two-Year Warranty:

- ◆ Full coverage on repairs caused by defects in workmanship
- ◆ Repaired on-site whenever possible to minimize downtime.
- ◆ Quick turn-around time on repairs
- ◆ Phone support during repair process.



About Us

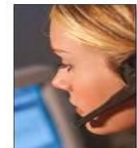
Flexotherm™ is a division of Neptech, Inc.— manufacturer of quality heated products since 1994. Our mission is to partner with industry leading companies to harness technologies that help reduce emissions and meet corporate, government and EPA standards.

We have built a quality reputation for consistently delivering innovative and cost-effective solutions that benefit the bottom line.

Our multi-faceted engineering, design and manufacturing capabilities enable us to provide a complete array of products and services to R&D facilities and OEMs worldwide.

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Model Number	Drum Material	Drum Position	Fits Drum Capacity / Dia (gal./in.)	Total Wattage (W)	Voltage (V)	Adjustable Thermostat (°F)	Cord Termination	Length/ Width (in.)
DH-5-115-TS	METAL	VERTICAL	5/11.25	300	115	50 to 425	3-prong plug	30/3
DH-15-115-TS	METAL	VERTICAL	15/14.25	500	115	50 to 425	3-prong plug	35.88/3
DH-30-115-TS	METAL	VERTICAL	30/18.25	750	115	50 to 425	3-prong plug	52.50/3
DH-55-115-TS	METAL	VERTICAL	55/22.5	1000	115	50 to 425	3-prong plug	64.50/3
DHW-5-115-TS	METAL	VERTICAL	5/11.25	450	115	50 to 425	3-prong plug	30/4
DHW-15-115-TS	METAL	VERTICAL	15/14.25	750	115	50 to 425	3-prong plug	35.88/4
DHW-30-115-TS	METAL	VERTICAL	30/18.25	1100	115	50 to 425	3-prong plug	52.50/4
DHW-55-115-TS	METAL	VERTICAL	55/22.5	1500	115	50 to 425	3-prong plug	64.50/4
DH-55-115	METAL	VERTICAL	55/22.5	1000	115	None	3-prong plug	64.5/8
DHH-55-115-TS	METAL	HORIZONTAL	55/22.5	500	115	50 to 425	3-prong plug	65.50/8
XH-5-115-TS	NON-METAL	VERTICAL	5/11.25	300	115	50 to 160	3-prong plug	29/6
XH-15-115-TS	NON-METAL	VERTICAL	15/14.25	370	115	50 to 160	3-prong plug	38.5/6
XH-30-115-TS	NON-METAL	VERTICAL	30/18.25	590	115	50 to 160	3-prong plug	51/6
XH-55-115-TS	NON-METAL	VERTICAL	55/22.5	750	115	50 to 160	3-prong plug	64/6
DH-5-230-TS	METAL	VERTICAL	5/11.25	300	230	50 to 425	NONE	20/4
DH-15-230-TS	METAL	VERTICAL	15/14.25	500	230	50 to 425	NONE	35.88/4
DH-30-230-TS	METAL	VERTICAL	30/18.25	750	230	50 to 425	NONE	52.50/3
DH-55-230-TS	METAL	VERTICAL	55/22.5	1000	230	50 to 425	NONE	64.50/3
DHW-5-230-TS	METAL	VERTICAL	5/11.25	450	230	50 to 425	NONE	20/4
DHW-15-230-TS	METAL	VERTICAL	15/14.25	750	230	50 to 425	NONE	35.88/4
DHW-30-230-TS	METAL	VERTICAL	30/18.25	1100	230	50 to 425	NONE	35.88/4
DHW-55-230-TS	METAL	HORIZONTAL	55/22.5	1500	230	50 to 425	NONE	64.50/4
DHH-5-230-TS	METAL	HORIZONTAL	55/22.5	500	230	50 to 425	NONE	65.50/8
XH-5-230-TS	NON-METAL	HORIZONTAL	5/11.25	300	230	50 to 160	NONE	29/6
XH-15-230-TS	NON-METAL	HORIZONTAL	15/14.25	370	230	50 to 160	NONE	38.5/6
XH-20-230-TS	NON-METAL	HORIZONTAL	30/18.25	590	230	50 to 160	NONE	51/6
XH-55-230-TS	NON-METAL	HORIZONTAL	55/22.5	750	230	50 to 160	NONE	64/6

*Metal Version Drum Heaters have the following prefixes: DH, DHW, DHH; non-metal version Drum Heaters have the following prefix: XH

Flexotherm™ Flexible Outdoor Work Mat / Pad Heating Blankets

Flexotherm™ Heated / Insulating Blankets offer a continuous and even heat source for any type of job.

Flexotherm™ manufactures a custom designed, high quality drum blanket for a multitude of applications and industries.

Our blankets offer an even and continuous heat source for any type of job you need done.

Our Flexible Heating Blankets are made with the following features:

- ◆ Flexotherm™ Heated Blankets are suitable for a wide variety of plastic, fiber, and metal containers.
- ◆ The high efficiency carbon heating grid evenly distributes heat over the entire blanket area.
- ◆ The heating element is built with a integrated fixed temperature Thermostat as a Redundant Safety Feature
- ◆ Our heating elements, unlike others, decreases current as temperature increases which results in a safer product.



Can be used on many different types of materials

Construction:

- ◆ All models utilize Heavy Duty vinyl that is NFPA Certified Flame Retardant.
- ◆ The Heavy Duty vinyl used is also scuff, water, and UV resistant.
- ◆ Vinyl Panel Perimeters are sealed with Fully Welded Seam
- ◆ Every blanket includes a Full-Layer of high thermal efficiency Closed Cell Foil Faced Insulation, directing the infrared heat to the desired location.

Heavy Duty Vinyl is NFPA Certified Flame Retardant



Fully Welded Seam to ensure the blanket is sealed on the perimeter

Outdoor Work Mat / Pad Heating Blanket Specifications

Model	Approx. Temp	Blanket Dimensions	Element Dimensions	Wattage	Amps
100°F (38°C) Temperature Model	113°F -131°F (45°C - 55°C)	36" x 76" (91.44 cm x 193.04 cm)	33" x 74" (83.82 cm x 187.96 cm)	632 Watts	tbd

Warranty

All of our quality heated products are backed by a limited Two-Year Warranty:

- ◆ Full coverage on repairs caused by defects in workmanship
- ◆ Repaired on-site whenever possible to minimize downtime.
- ◆ Quick turn-around time on repairs
- ◆ Phone support during repair process.



About Us

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Heated Vinyl Blankets Utilizing HeatedMesh™ Technology

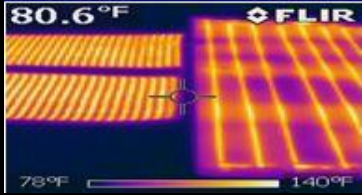


Diagram A:

The above image shows temperature coverage of *HeatedMesh™* (left) vs. *traditional heated technology* (right)

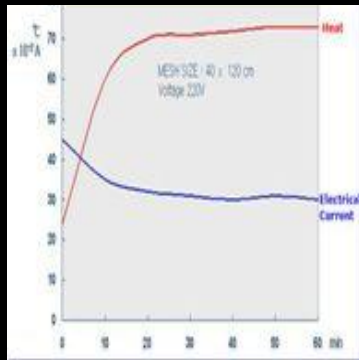


Diagram B:

The above graph measures the Relationship between *HeatedMesh™* temperature and electrical currents.

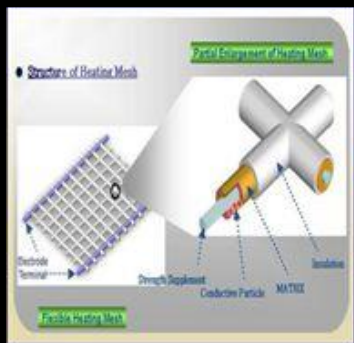


Diagram C:

The above illustration shows the relationship between *HeatedMesh™* temperature and electrical currents.

Flexotherm™ brand of heated vinyl blankets are water resistant and constructed of rugged, wear resistant, 18oz vinyl, protected by an integrated GFCI and utilizes HeatedMesh™ heating technology.

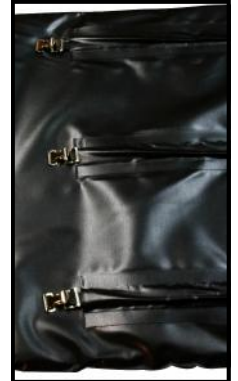
HeatedMesh™ is a patented heating technology that is a positive temperature coefficient device. Opposed to traditional heating technology, HeatedMesh™ temperature increases during the first 20 minutes of operation, while the electrical current decreases. (See Diagram B).



HeatedMesh™ is comprised of electrode terminals that are made of flexible copper wire—providing a rapid heat source with excellent bending capabilities and effective, even heating—up to 165°F (74°C).

Diagram C on the left shows the external AC or DC (optional) voltage being applied to the outer edge terminals. Each hot mesh structure consists of at least two terminal. The electrode terminals are interconnected by a flexible mesh which contains the thermal alloy.

Flexotherm™ brand of heated vinyl blankets with HeatedMesh™ technology are available in multiple size and voltage configurations.



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- Full Coverage on repairs caused by defects in Workmanship
- Quick turn-around times on repairs
- Phone support during repair process.



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Flexotherm™ 55 Gallon (208 Liter) Flexible Drum / Barrel Heating Blankets

Flexotherm™ Heated / Insulating Blankets offer a continuous and even heat source for any type of job.

Flexotherm™ manufactures a custom designed, high quality drum blanket for a multitude of applications and industries. Our blankets offer an even and continuous heat source for any type of job you need done. Our Flexible Heating Blankets are made with the following features:



Construction:

- ◆ All models utilize Heavy Duty vinyl that is NFPA Certified Flame Retardant.
- ◆ The Heavy Duty vinyl used is also scuff, water, and UV resistant.
- ◆ We outfit our blankets with adjustable retaining straps and quick release plated buckles (Container Models ONLY)
- ◆ Vinyl Panel Perimeters are sealed with Fully Welded Seam
- ◆ Every blanket includes a Full-Wrap of high thermal efficiency Closed Cell Foil Faced Insulation, directing the infrared heat to the product being heated.

Can be used on many different types of materials

- ◆ Flexotherm™ Heated Blankets are suitable for a wide variety of plastic, fiber, and metal containers.
- ◆ The high efficiency carbon heating grid evenly distributes heat over the entire blanket area.
- ◆ The heating element is built with a integrated fixed temperature Thermostat as a Redundant Safety Feature
- ◆ Our heating elements, unlike others, decreases current as temperature increases.

Flexible wrap feature allows product to be completely wrapped



Blanket design keeps the cold air out and the warm air in.

55 Gallon Flexible Drum / Barrel Heating Blanket Specifications

Model	Approx. Temp	Blanket Dimensions	Element Dimensions	Wattage	Amps
122°F (50°C) Temperature Model	113°F - 131°F (45°C - 55°C)	36" x 84" (91.44 cm x 213.36 cm)	33" x 74" (83.82 cm x 187.96 cm)	720 Watts	6 Amps (6000000 microamps)
158°F (70°C) Temperature Model	149°F - 167°F (65°C - 75°C)	36" x 84" (91.44 cm x 213.36 cm)	33" x 74" (83.82 cm x 187.96 cm)	960 Watts	8 Amps (8000000 microamps)

Warranty

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- ◆ Full coverage on repairs caused by defects in workmanship
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- ◆ Quick turn-around time on repairs
- ◆ Phone support during repair process.



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Flexotherm™ 5 Gallon (19 Liter) Flexible Pail / Bucket Heating Blankets

Flexotherm™ Heated / Insulating Blankets offer a continuous and even heat source for any type of job.

Flexotherm™ manufactures a custom designed, high quality pail/bucket blanket for a multitude of applications and industries.

Our blankets offer an even and continuous heat source for any type of job you need done.

Our Flexible Heating Blankets are made with the following features:

- ◆ Flexotherm™ Heated Blankets are suitable for a wide variety of plastic, fiber, and metal containers.
- ◆ The high efficiency carbon heating grid evenly distributes heat over the entire blanket area.
- ◆ The heating element is built with an integrated fixed temperature Thermostat as a Redundant Safety Feature
- ◆ Our heating elements, unlike others, decreases current as temperature increases which results in a safer product.

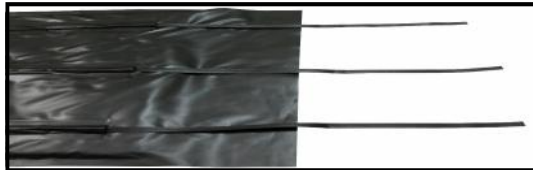
Can be used on many different types of materials



Construction:

- ◆ All models utilize Heavy Duty vinyl that is NFPA Certified Flame Retardant.
- ◆ The Heavy Duty vinyl used is also scuff, water, and UV resistant.
- ◆ We outfit our blankets with adjustable retaining straps and quick release plated buckles (Container Models ONLY)
- ◆ Vinyl Panel Perimeters are sealed with Fully Welded Seam
- ◆ Every blanket includes a Full-Wrap of high thermal efficiency Closed Cell Foil Faced Insulation, directing the infrared heat to the product being heated.

Flexible wrap feature allows product to be completely wrapped



Blanket design keeps the cold air out and the warm air in.

5 Gallon Flexible Pail / Bucket Heating Blanket Specifications

Model	Approx. Temp	Blanket Dimensions	Element Dimensions	Wattage	Amps
122°F (50°C) Temperature Model	113°F - 131°F m (45°C - 55°C)	16" x 46" (40.64 cm x 116.84 cm)	14" x 39.4" (35.56 cm x 100.076 cm)	160 Watts	1.3 Amps (1300000 microamps)
158°F (70°C) Temperature Model	149°F - 167°F (65°C - 75°C)	16" x 46" (40.64 cm x 116.84 cm)	14" x 39.4" (35.56 cm x 100.076 cm)	215 Watts	1.8 Amps (1800000 microamps)

Warranty

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