



BriskHeat®

Freeze Protection - Product Catalog

SAFEGUARDING OPERATIONS IN COLD WEATHER

Pipe Heat Tracing ■ Emergency De-Icing & Temporary PVC Pipe Warming
Tank & Vessel Heating ■ Roof & Gutter Ice Dam Prevention
Residential & Commercial Pipes ■ Protecting Mechanical Devices

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YOUR GUIDE TO SAFEGUARDING APPLICATIONS IN COLD WEATHER

Unpredictable weather is becoming the new norm, and that means you need a solid plan to protect your critical equipment, materials, and infrastructure from the costly damage freezing temperatures can cause.

Globally, industries are facing significant financial hits due to freeze damage. This guide will help you understand, anticipate, and prevent these issues, so you can keep things running smoothly and safely all winter long.

GET READY BEFORE THE COLD HITS

Think of effective freeze protection as more than just a winter chore; it's a vital part of keeping your operations resilient and your assets lasting longer. When you understand how freezing impacts your process, explore your heating options, and have a proactive maintenance plan in place, you'll protect your facility, equipment, and materials from the harsh effects of cold weather.

At BriskHeat, we're here to be your go-to partner for innovative and reliable heating and temperature control solutions. With over 75 years in the business, we offer a complete lineup of products—from heating tapes and cables to drum and tote heaters—designed to meet the unique needs of various industries. Plus, our expert application and engineering teams are ready to help you design the most efficient and effective freeze protection system for whatever you need.



BRISKHEAT APPLICATION BOOK:

Scan the QR code to view BriskHeat's extensive application book online!

INDUSTRIES BENEFITING FROM FREEZE PROTECTION:

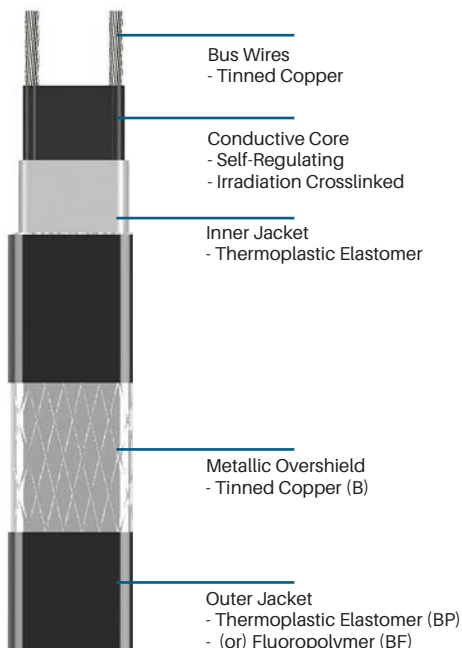
- Oil & Gas
- Water Treatment
- Transportation
- Agriculture
- Construction
- Mining
- Chemical Processing
- Food Processing
- Biotech
- Aviation
- Laboratory
- Power Generation
- Pharmaceutical
- Marine/Shipping
- HVAC & Refrigeration
- Warehousing & Logistics
- General Manufacturing



HEAT TRACE & ACCESSORIES

Heat trace solutions are fundamental for maintaining warm temperatures in pipelines and vessels, actively preventing freezing and ensuring continuous flow. Their importance lies in safeguarding essential infrastructure against costly downtime and damage caused by cold temperatures, making them a cornerstone of reliable freeze protection systems.

SLCBL SELF-REGULATING HEATING CABLE



FEATURES & BENEFITS

- Ideal for freeze protection, roof and gutter de-icing, snow melting systems, and low temperature process maintenance up to 150°F (65°C)
- Automatically adjusts heat output based on surface temperature
- Safe to overlap and insulate
- Moisture, chemical, and flame resistant
- Can be cut-to-length and terminated in the field

SPECIFICATIONS

Intermittent Exposure Temperature Range: -40°F to 185°F (-40°C to 85°C)

Supply Voltage: 110-120 VAC or 208-277 VAC

Nominal Power Output at 50°F (10°C):
3, 5, 8, 10, 12 watts/ft (10, 16, 26, 33, 39 watts/m)

T-Rating:

- T6: 3, 5, 8, 10 watts/ft (10, 16, 26, 33 watts/m)
- T5: 12 watts/ft (39 watts/m)

Bend Radius: 0.5 in (12 mm)



PART NUMBER MATRIX

Example: **SLCBL3120BF**

Product Series	Watts/ft	Voltage	Outer Layer
SLCBL	3	120 (110-120 VAC)	B (Dry Areas)
	5		(Tinned Copper Metal Braid)
	8	240 (208-277 VAC)	BP (Wet Areas)
	10		(Tinned Copper Metal Braid w/ Thermoplastic Elastomer Overjacket)
	12		BF (Corrosive Areas)
			(Tinned Copper Metal Braid w/ Fluoropolymer Overjacket)

Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.



Ordinary Locations,
-B, -BP Series Only
Industrial & Commercial Pipe
Heating, -B, -BP Series Only
Embedded de-icing and snow
melting systems, -BP Series
Only

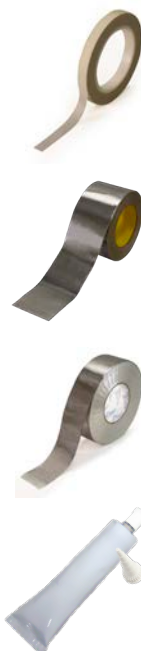
Roof & gutter de-icing and
snow melting systems, -BP
Series Only



Ordinary Locations
Hazardous (Classified)
Locations
Class I, Division 2,
Groups A, B, C, D
Class II, Division 2,
Groups E, F, G
Class III



ACCESSORIES



Part No.	Description
PSAT36A	Standard Fiberglass Tape Suitable for General Purpose Applications Size: 0.5 in x 108 ft (13 mm x 38 m) Silicone Adhesive Temp Limit: 392°F (200°C)
AAT25	Standard Aluminum Tape Suitable for General Purpose Applications Size: 2.5 in x 180 ft (64 mm x 55 m) Acrylic Adhesive Temp Limit: 305°F (152°C)
AAT260	Extra-Strength Aluminum Tape Enhanced Durability and Adhesion for More Rigorous Applications Size: 2 in x 180 ft (51 mm x 55 m) Acrylic Adhesive Temp Limit: 300°F (149°C)
RTV3.0	Silicone adhesive sealant used to seal 90° elbows and tees; 3 oz (89 ml)
HCP1	Heat Conductive Putty Size: 1 lb (0.5 kg)
HCP3	Heat Conductive Putty Size: 3 lb (1.4 kg)

SLCBL CONNECTION/TERMINATION KITS

For use in ordinary locations with SLCBL cable only (UL approved). For use in roof & gutter & de-icing applications with SLCBL cable only (UL approved).

UL US LISTED
Ordinary Locations

Approvals valid only when used with SLCBL-BP, -BF Series heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.



SLCBLUC Universal Connection Kit
(Junction Box sold separately) See Page 7



SLCBLUC-GF
Ground Fault Power Connection Kit

Part No.	Kit	Enough to Complete
SLCBLUC	Power Connection Kit	One input connection and one end seal termination Requires: (1) 0.5 in NPT junction box — with appropriate approvals* (1) Pipe strap
SLCBLUC-GF	Ground Fault Power Connection Kit	One ground-fault protection input power connection
SLCBLKC	Power Connection Kit	Two end seal terminations
SLCBLSK	UL Splice Connection Kit	One inline splice connection and one end seal termination, or one tee splice connection and one end seal termination

*Heating cable with no outer jacket (type -B) requires a metallic junction box for proper grounding



JHE-GET
Low-Profile End Seal Kit



JHT-GET
Low-Profile Tee Connection Kit

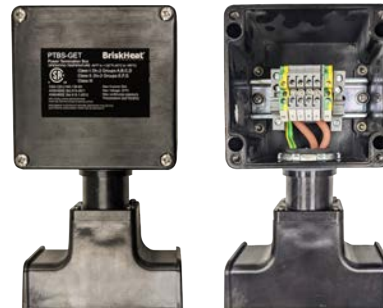
Part No.	Kit	Approval
PTBS-GET	Power Connection Kit with Multiple Entry Square Junction Box	CID2 (CSA) & Ordinary
JHE-LG-GET	Green Monitor Light Kit	CID2 (CSA) & Ordinary
JHE-LR-GET	Red Monitor Light Kit	CID2 (not CSA) & Ordinary
JHE-GET	Low-Profile End Seal Kit	CID2 (CSA) & Ordinary
JHS-GET	Low-Profile Splice Connection Kit	CID2 (CSA) & Ordinary
JHT-GET	Low-Profile Tee Connection Kit	CID2 (CSA) & Ordinary

For use in hazardous and ordinary area locations with SLCBL cable only (cCSAus approved).

CSA US

Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 2, Groups A, B, C, D
Class II, Division 2, Groups E, F, G
Class III
SLCBL -BP, -BF series only

Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.



PTBS-GET Power Connection Kit with Multiple Entry Junction Box

FEATURES & BENEFITS

- Installing three heating cables in one junction box saves installation time and money
- Terminal strip secures each wire separately for safe and easy wiring
- Compression fitting tightly secures to a range of power cords — 0.39 to 0.67 in (10 to 17 mm) diameter



JHE-LG-GET & JHE-LR-GET
Monitor Light

CSA US

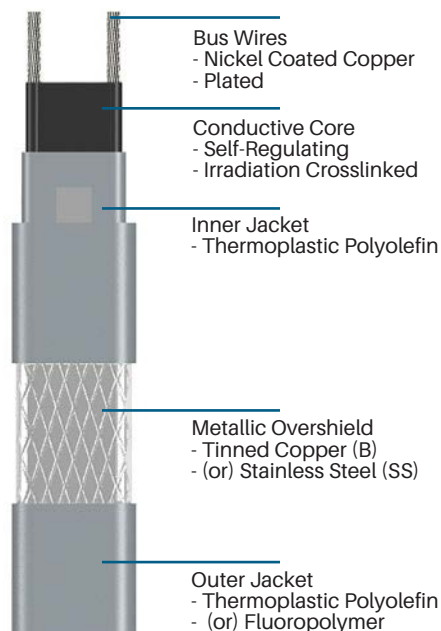
Ordinary Locations (with SLCBL heating cables) Hazardous (Classified) Locations (with SLCBL heating cable only)
Class I, Division 2, Groups A, B, C, D
Class II, Division 2, Groups E, F, G
Class III
T5: 3,5,8 watts/ft (10, 16, 26 watts/m).
T6: 10 watts/ft (33 watts/m)

Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.

FEATURES & BENEFITS

- End-of-Circuit super bright LED light with excellent visibility from all angles confirms at a glance your heat trace cable is energized
- Approved for ordinary and hazardous area locations
- Voltages up to 240 VAC
- Easy-to-install and easy re-entry for maintenance

SLCAB SELF-REGULATING HEATING CABLE



FEATURES & BENEFITS

- Ideal for freeze protection and low-temperature process maintenance up to 150°F (65°C)
- Automatically adjusts heat output based on surface and ambient temperatures
- Safe to overlap and insulate
- Moisture, chemical, and flame resistant
- Can be cut-to-length and terminated in the field

SPECIFICATIONS

Intermittent Exposure Temperature Range: -20°F to 185°F (-29°C to 85°C)

Supply Voltage: 110-120 VAC or 208-277 VAC

Nominal Power Output at 50°F (10°C):

3, 5, 8, 10 watts/ft (10, 16, 26, 33 watts/m)

T-Rating:

- T5: 3 watts/ft (10 watts/m)

Bend Radius: 0.5 in (12 mm)



PART NUMBER MATRIX

Example: **SLCAB3120BF** or **BF1**

Product Series	Watts/ft	Voltage	Outer Layer	Cable
SLCAB	3	120 (110-120 VAC)	B (Dry Areas) (Tinned Copper Metal Braid)	BF1 (Tinned Copper Metal Braid w/ Fluoropolymer Overjacket)
	5			
	8	240 (208-277 VAC)	BP (Wet Areas) (Tinned Copper Metal Braid w/ Thermoplastic Polyolefin)	CI/D1 approval for BF1 only. Contact a BriskHeat representative for information on Division I hazardous location systems.
	10		BF (Corrosive Areas) (Tinned Copper Metal Braid w/ Fluoropolymer Overjacket)	
			SS (Stainless Steel Metal Braid)	

Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.



Ordinary Locations
Hazardous (Classified)
Locations
Class I, Division 1 and 2,
Groups B, C, D Class II,
Division 2, Groups F, G
Class III, Groups F, G
3, 5, 8 watts/ft T6
10 watts/ft T5



Ordinary Locations 2E,
3 (A, B, C), 5 (A, B)
Hazardous (Classified)
Locations Class I,
Division 1 and 2,
Groups B, C, D
Class II, Division 2,
Groups E, F, G Class III,
Division 1 and 2
T4



Hazardous Locations
II 2GD Gb
Ex e IIC T**
Ex tb IIIC T**C Db
**3, 5, 8 watts/ft
T5/T85°C
**10 watts/ft
T4 /T100°C



Hazardous Locations
Ex e IIC T** II 2 Gb
Ex tb IIIC T**C Db
**3, 5, 8 watts/ft
T5/T85°C
**10 watts/ft
T4 / T100°C

ACCESSORIES



Part No.	Description
PSAT36A	Standard Fiberglass Tape Suitable for General Purpose Applications Size: 0.5 in x 108 ft (13 mm x 38 m) Silicone Adhesive Temp Limit: 392°F (200°C)
AAT25	Standard Aluminum Tape Suitable for General Purpose Applications Size: 2.5 in x 180 ft (64 mm x 55 m) Acrylic Adhesive watts/Liner Temp Limit: 305°F (152°C)
AAT260	Extra-Strength Aluminum Tape Enhanced Durability and Adhesion for More Rigorous Applications Size: 2 in x 180 ft (51 mm x 55 m) Acrylic Adhesive Temp Limit: 300°F (149°C)
RTV3.0	Silicone adhesive sealant used to seal 90° elbows and tees; 3 oz (89 ml)
HCP1	Heat Conductive Putty Size: 1 lb (0.5 kg)
HCP3	Heat Conductive Putty Size: 3 lb (1.4 kg)

SLCAB CONNECTION/TERMINATION KITS

Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.

*Contact a BriskHeat representative for information on Division I hazardous location systems.



Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 1¹ and 2, Groups B, C, D
Class II, Division 2, Group F, G
Class III, Division 2



SLCABUC Universal Connection Kit
(junction box sold separately)



SLCABUC1 Class I, Division 1
Power Connection Kit



SLCABKC1 Class I, Division 1
End Termination Kit



SLCABKC
End Seal Kit



SLCABSK
Splice Kit

ORDINARY, CLASS I DIVISION 2, & CLASS I DIVISION 1 LOCATION KITS - FM APPROVED

Part No.	Kit	Enough to Complete
SLCABUC	Ordinary or Class I Division 2 SLCAB Universal Connection Kit - FM Approved	1 input connection and 2 end terminations; or 1 input power splice Requires: 0.75 in (19 mm) NPT junction box — with appropriate approvals
SLCABSK	Ordinary or Class I Division 2 SLCAB Splice Kit - FM Approved	10 tee splices or 10 input power connections
SLCABKC	Ordinary or Class I Division 2 SLCAB End Seal Kit - FM Approved	10 end terminations
SLCABUC1	Class I, Division 1 SLCAB Power Connection Kit - FM Approved	1 power connection. C1D1 junction box included
SLCABKC1	Class I, Division 1 SLCAB End Termination Kit - FM Approved	1 end termination. C1D1 junction box included



JBM075
3 Hub Ordinary Locations Junction
Box



JBH075
7 Hub Class I Division 1 Locations Junction Box



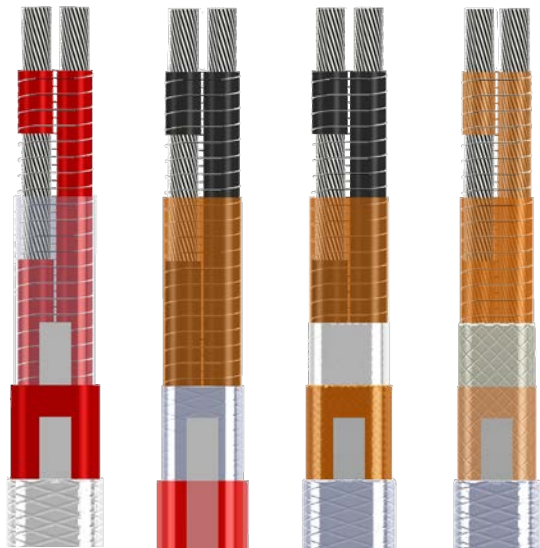
Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 1¹ and 2, Groups
B, C, D
Class II, Division 2, Group F, G
Class III, Division 2

Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.

JUNCTION BOXES

Part No.	Type	Approvals/Ratings	Dimensions in (mm)	Thread Size in (mm) NPT
JBM050	3 hub metallic junction box with 2 plugs and watertight cover	UL/CSA for ordinary locations NEMA 3R rated	2 x 4.5 x 2.75 (51 x 114 x 70)	0.50 (13)
JBM075				0.75 (19)
JBM100				1.00 (25)
JBH075	7 hub cast aluminum junction box with 6 plugs and watertight cover	UL/CSA for Hazardous Areas CI D1 & 2 Groups B, C, D CII D1 Groups D, F, G	4.6 x 4.6 x 3.5 (118 x 118 x 89)	0.75 (19)
JBH100				1.00 (25)

CONSTANT WATTAGE HEATING CABLE



FEATURES & BENEFITS

- Maintain precise temperatures with controller
- Temperatures up to 500°F (260°C)
- Ideal for long runs
- Can be cut-to-length at job site
- Tension wrapping holds resistance wire in place, even under extreme bending

NOTE: Temperature Controller is Required.

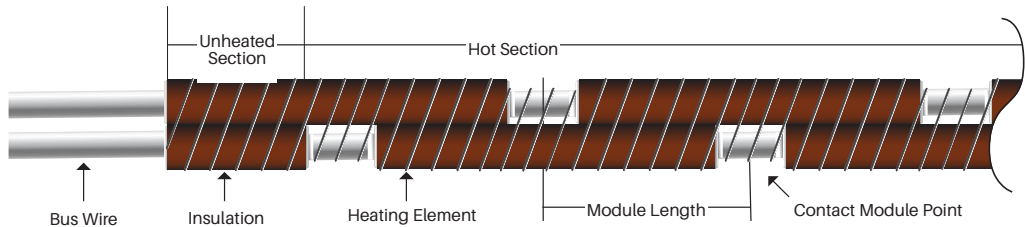
APPLICATIONS

- Process maintenance
- Viscosity control
- Low to high temperature control
- Freeze protection
- Ordinary locations
- Hazardous locations

SELECTION GUIDE

Constant-Wattage Heating Cables	FE Series	KE Series	KM Series	KK Series
Maximum Exposure Temperature	400°F (204°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Outer Jacket	FEP Extruded Jacket with Tinned Copper Overbraid	PFA Extruded Jacket	Polymide Film with Tinned Copper Overbraid	Polymide Film with Tinned Copper Overbraid
Available Voltages	120, 208, 240, 277, 480 VAC	120, 208, 240, 277, 480 VAC	120, 208, 240, 277, 480 VAC	120, 208, 240, 277, 480 VAC
Available Wattages	3, 5, 8, & 12 watts/ft (10, 16, 26, & 39 watts/m)	4, 8, & 12 watts/ft (13, 26, & 39 watts/m)	4, 8 & 12 watts/ft (13, 26, & 39 watts/m)	4, 8, 12, & 18 watts/ft (13, 26, 39, & 59 watts/m)
Nominal Dimensions	0.2 in x 0.3 in (5 mm x 8 mm) 12 AWG	0.2 in x 0.3 in (5 mm x 8 mm) 12 AWG	0.2 in x 0.3 in (5 mm x 8 mm) 12 AWG	0.15 in x 0.25 in (4 mm x 6 mm) 12 AWG
Weight per 500 Foot (152m) Spool	40 lb (18 kg)	41 lb (19 kg)	45 lb (20 kg)	30 lb (14 kg)
Dielectric Strength	Over 2000 volts	Over 2000 volts	Over 2000 volts	Over 2000 volts
Resistance to Moisture	Poor	Excellent	Good	Good
Resistance to Chemicals	Poor	Excellent	Good	Good
Resistance to Flame	Outstanding	Excellent	Outstanding	Excellent
Resistance to Radiation	Fair to good	Fair to good	Good	Outstanding flexibility after exposure to 10 ⁹ RADS

HOW CONSTANT WATTAGE CABLE WORKS



Constant-Wattage cable uses a fixed resistance wire wrapped around two main conductors (bus wires). At specific intervals the insulation is removed from the bus wires, forming the Contact Module Points.

These Contact Module Points are staggered along the length of the cable. This creates consistent heating circuits known as the Module Length. When power is applied to the bus wires each complete Module Length heats at the rated wattage output.

The incomplete Module Lengths, at the beginning and end of each cable, do not heat. This allows the “Cold” ends to be safely placed inside of a controller or junction box.

FE CONNECTION/TERMINATION KITS



FECABUC Contents

FECABEP:

End Termination Kit

- 1 - End pouch
- 1 - Shrink tube

Enough to complete one end termination.

FECABUC:

Universal Connection/Termination Kit

- 3 - Lead pouches
- 2 - End pouches
- 6 - Shrink tubes
- 1 - 3 oz (89 ml) tube RTV sealant
- 1 - Caution label
- 2 - Ring terminals
- 2 - Splice connectors 12-10
- 3 - Wire nuts
- 1 - 1 in NPT Pipe standoff
- 2 - Pipe straps

Enough to complete one power input connection or one power input splice, three lead terminations and two end terminations. NOTE: Requires double hub junction box.

FECABSK:

Splice Kit

- 3 - Lead pouches
- 1 - End pouch
- 4 - Shrink tubes
- 1 - 3 oz (89 ml) Tube RTV sealant
- 1 - Caution label
- 3 - Ring terminals
- 3 - Splice connectors 12-10

Enough to complete one in-line splice or one tee splice, three lead terminations and one end termination. NOTE: Requires single hub junction box, pipe standoff, two pipe straps.

FECABLP:

Lead Termination Kit

- 1 - Lead pouch
- 1 - Shrink tube

Enough to complete one lead termination.

FECABKC:

Lead/End Termination Kit

- 5 - Lead pouches
- 5 - End pouches
- 10 - Shrink tubes

Enough to complete five lead terminations and five end terminations.

KE/KM/KK CONNECTION/TERMINATION KITS



KCABUC Contents

KCABEP:

End Termination Kit

- 1 - End pouch

Enough to complete one end termination.
NOTE: Requires RTV silicone.

KCABUC:

Universal Connection/Termination Kit

- 2 - Lead pouches
- 2 - End pouches
- 1 - 3 oz (89 ml) Tube RTV sealant
- 1 - Caution label
- 2 - Ring terminals
- 2 - Splice connectors 12-10
- 2 - Wire nuts
- 1 - 1 in NPT pipe standoff
- 2 - Pipe straps

Enough to complete one power input connection or one power input splice, two lead terminations and two end terminations. NOTE: Requires double-hub junction box.

KCABSK:

Splice Kit

- 3 - Lead Pouches
- 3 - End pouches
- 1 - 3 oz (89 ml) Tube RTV sealant
- 1 - Caution label
- 3 - Ring terminals
- 3 - Splice connectors 12-10

Enough to complete one in-line splice or one tee splice, three lead terminations and three end terminations. NOTE: Requires single hub junction box, pipe standoff, two pipe straps.

KCABLP:

Lead Termination Kit

- 1 - Lead pouch

Enough to complete one lead termination.
NOTE: Requires RTV silicone

KCABKC:

Lead/End Termination Kit

- 5 - Lead pouches
- 5 - End pouches
- 1 - 3 oz (89 ml) Tube RTV sealant

Enough to complete five lead terminations and five end terminations.

SPEEDTRACE ROOF & GUTTER DE-ICING KITS



**COMPLETE KIT INCLUDES
EVERYTHING YOU NEED!**



THERMOCUBE-CUBE: THERMOSTATICALLY CONTROLLED OUTLET

- Red LED display
- 3-key push button interface
- Fuse protection
- Easy to use on/off digital controller with audible alarm
- Compatible with 120 VAC 3-Prong NEMA 5-15 outlet
- Available in three temperature ranges

FEATURES & BENEFITS

- Durable, long-lasting professional-grade self-regulating heating cable
- Suitable for residential, commercial, and industrial roofing applications
- Ideal for melting snow and de-icing roofs, gutters, and downspouts
- Easy-to-install: Pre-assembled with choice of 3-prong grounded plug (NEMA 5-15P) or bare wire leads
- Kit includes: SpeedTrace heating cable, downspout hanger brackets, roof clips, and UV resistant ties

SPECIFICATIONS

Supply Voltage: 110-120 VAC, 208-277 VAC

Nominal Wattage:

- 5 watts/ft (16 watts/m) at 50°F (10°C)
- 10 watts/ft (33 watts/m) at 32°F (0°C) in ice and snow

Minimum Exposure Temperature: -40°F (-40°C)

Maximum Exposure Temperature: 150°F (65°C)

Outer Jacket: Moisture and chemical-resistant thermoplastic outer jacket

Bus Wires: 16 AWG

Power Cord:

- **110-120 VAC:** 6 ft (1.8 m) power cord with 3-prong grounded plug (NEMA 5-15P)
- **208-277 VAC:** 2.5 ft (0.76 m) power cord with bare wire leads

ORDERING INFORMATION

SpeedTrace Roof & Gutter Kits

Part No. 110-120 V	Part No. 208-277 V	Cable Length ft (m)	Kit Includes			
			Roof Clips	Downspout Hangers	Cable Ties	Caution Labels
FFRG15-50	FFRG25-50	50 (15.2)	30	2	15	2
FFRG15-75	FFRG25-75	75 (22.8)	50	4	20	2
FFRG15-100	FFRG25-100	100 (30.5)	60	4	25	2
FFRG15-125	FFRG25-125	125 (38.1)	80	4	30	2
FFRG15-150	FFRG25-150	150 (45.7)	100	6	40	2

Additional items required, but not supplied:

UV resistant RTV sealant, roofing nails or screws

ACCESSORIES

Part No.	Description
THERMO-CUBE	Thermostatically Controlled Outlet 120 VAC
SLCBL-RDOWN1	Aluminum Downspout Hanger Bracket
SLCBL-RCLIP10	Aluminum Roof Clips (10 pack)
SLCBL-RCLIP50	Aluminum Roof Clips (50 pack)
SLCBL-RCLIPMAG10	Magnetic Roof Clips (10 pack)

SPEEDTRACE ROOF & GUTTER DE-ICING KITS

INSTALLATION REQUIREMENTS

Suitable for

- Standard pitched roofs with or without gutters
- Standard roofing materials including shingle, shake, rubber, tar, wood, metal and plastic roofs
- Gutters & downspouts made from standard materials including metal and plastic

Not Suitable for

- Flat, slate, stone, ceramic, composite tar/gravel roofs

Electrical Requirements

- GFCI protected circuit, local code-approved outlet (power source) within close proximity to the heating cable starting point, and protected from the weather

MEASURING HEATING CABLE LENGTH FOR ROOF & GUTTER DE-ICING

Use the equation below to calculate heating cable length:

Cable Required for Roof = (R x M) + G + D

(R) Roof Edge Length (linear length of roof to protect)

(M) Multiplier from table to the right

(G) Gutter Length

(D) Downspout Length (X2 if heating cable returns back to gutter)

Heating Cable Kit Length Required [Round up to the nearest kit size]

M = Length of cable per foot (meter) of roof edge

Roof Overhang [Eave/Soffit] in (mm)	Standard Roof [M] ft (m)	Standing Seam Roof 18 in (457 mm) Seam [M] ft (m)	Standing Seam Roof 24 in (610 mm) Seam [M] ft (m)
None	2.0 (0.61)	2.5 (0.76)	2.0 (0.61)
12 (305)	2.5 (0.85)	2.8 (0.85)	2.4 (0.73)
24 (610)	3.0 (0.91)	3.6 (1.10)	2.9 (0.88)
36 (914)	4.0 (1.21)	4.3 (1.31)	3.6 (1.10)



SPEEDTRACE & SPEEDTRACE EXTREME



Power-indicating light
let's you know heater is
working



FEATURES & BENEFITS

- Ideal for freeze protection, metal or plastic pipe thawing, and indoor/outdoor valves
- Pre-assembled with choice of plug
- Easy-to-install and safe to overlap and insulate
- Automatically adjusts heat output based on surface and ambient temperature
- Suitable for temperatures down to -40°F (-40°C)

SPECIFICATIONS

Supply Voltage: 110-120 VAC; 208-277 VAC

- **SpeedTrace:** 5 watts/ft (16 watts/m) at 50°F (10°C)

- **SpeedTrace Extreme:** 8 watts/ft (26 watts/m) at 50°F (10°C)

- **SpeedTraceCE:** 5 watts/ft (17 watts/m) at 50°F (10°C)

Maximum Exposure Temperature: 150°F (65°C)

Outer Jacket Material: Moisture and flame-resistant thermoplastic elastomer

Bus Wire Gauge: 16 AWG

Power Cord:

- **110-120 VAC:** 6 ft (1.8 m) long with 3-prong grounded NEMA 5-15P plug
- **208-277 VAC (SpeedTrace):** 2.5 ft (0.76 m) long with bare wire leads
- **230 VAC (SpeedTraceCE):** 2.5 ft (0.76 m) long with Schuko (CEE 7/7) plug



SpeedTrace

5 watts/ft @ 50°F (16 watts/m @ 10°C)

Part No. 110-120 V	Part No. 208-277 V	Length ft (m)
FFSL1-6	FFSL2-6	6 (1.8)
FFSL1-12	FFSL2-12	12 (3.7)
FFSL1-18	FFSL2-18	18 (5.5)
FFSL1-24	FFSL2-24	24 (7.3)
FFSL1-37	FFSL2-37	37 (11.3)
FFSL1-50	FFSL2-50	50 (15.2)
FFSL1-62	FFSL2-62	62 (18.9)
FFSL1-75	FFSL2-75	75 (22.8)
FFSL1-87	FFSL2-87	87 (26.5)
FFSL1-100	FFSL2-100	100 (30.5)
FFSL1-125	FFSL2-125	125 (38.1)
FFSL1-150	FFSL2-150	150 (45.7)



**60% MORE
POWER**

SpeedTrace Extreme

8 watts/ft @ 50°F (26 watts/m @ 10°C)

Part No. 110-120 V	Part No. 208-277 V	Length ft (m)
FFSL81-6	FFSL82-6	6 (1.8)
FFSL81-12	FFSL82-12	12 (3.7)
FFSL81-18	FFSL82-18	18 (5.5)
FFSL81-24	FFSL82-24	24 (7.3)
FFSL81-50	FFSL82-50	50 (15.2)
FFSL81-75	FFSL82-75	75 (22.8)
FFSL81-100	FFSL82-100	100 (30.5)



SpeedTraceCE

5 watts/ft @ 50°F (17 watts/m @ 10°C)

Part No. 230 V	Length ft (m)
FFSLE2-2M	6.6 (2)
FFSLE2-4M	13.1 (4)
FFSLE2-8M	26.2 (8)
FFSLE2-16M	52.5 (16)



Safe to
overlap &
insulate

Secure the unit with
adhesive tape, wrap
with insulation, and
plug it in.

Adhesive
Tape

Heating
Cable

INSUL-LOCK FLEXIBLE CLOSED-CELL PIPE INSULATION



Tees

90° Elbows

Straight Sections

FEATURES & BENEFITS

- Provides a protective thermal barrier that helps retain heat, reducing the risk of pipe freezing in cold environments
- Environmentally-friendly, CFC-free, flexible elastomeric thermal insulation
- Straight Sections have a double seal that reduces air infiltration
- Non-porous, fiber-free, and resistant to mold growth
- Compatible with heating cable and tapes
- Temperature range of -70°F to 220°F (-57°C to 104°C)



Tee Part No.	Pipe/Tube O.D. in **	I.D. in	Pipe/Tube O.D. mm**	I.D. mm
INSUL78T	0.5-0.625	0.875	13-16	22
INSUL118T	0.75-0.875	1.125	19-22	29
INSUL138T	1	1.375	25	35
INSUL158T	1.125	1.625	29	41
INSUL2T	1.375	2	35	51
INSUL218T	1.625	2.125	41	54
INSUL238T	2	2.375	51	60
INSUL258T	2.125	2.625	54	67
INSUL278T	2.375	2.875	60	73
INSUL318T	2.625	3.125	67	79
INSUL312T	2.875	3.5	73	89
INSUL358T	3.125	3.625	79	92
INSUL418T	3.5	4.125	89	105
INSUL412T	4	4.5	102	114
INSUL558T	5	5.625	127	143
INSUL658T	6	6.625	152	168

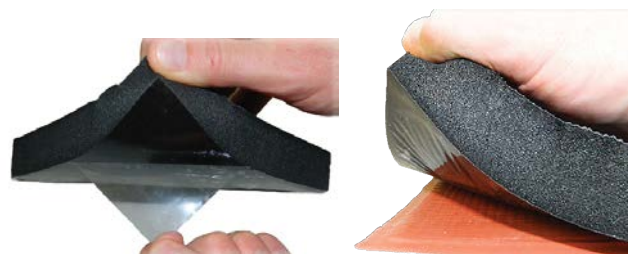
NOTE: I.D. = Inside Diameter, O.D. = Outside Diameter

90° Elbow Part No.	Pipe/Tube O.D. in **	I.D. in	Pipe/Tube O.D. mm**	I.D. mm
INSUL7890	0.5-0.625	0.875	13 - 16	22
INSUL11890	0.75-0.875	1.125	19 - 22	29
INSUL13890	1	1.375	25	35
INSUL15890	1.125	1.625	29	41
INSUL290	1.375	2	35	51
INSUL21890	1.625	2.125	41	54
INSUL23890	2	2.375	51	60
INSUL25890	2.125	2.625	54	67
INSUL27890	2.375	2.875	60	73
INSUL31890	2.625	3.125	67	79
INSUL31290	2.875	3.5	73	89
INSUL35890	3.125	3.625	79	92
INSUL41890	3.5	4.125	89	105
INSUL41290	4	4.5	102	114
INSUL55890	5	5.625	127	143
INSUL65890	6	6.625	152	168

NOTE: **Pipe/Tube Outside Diameters are recommended sizes

Straight Section Part No.	Pipe/Tube O.D. in **	I.D. in	Pipe/Tube O.D. mm**	I.D. mm
INSUL78	0.5-0.625	0.875	13-16	22
INSUL118	0.75-0.875	1.125	19-22	29
INSUL138	1	1.375	25	35
INSUL158	1.125	1.625	29	41
INSUL2T	1.375	2	35	51
INSUL218	1.625	2.125	41	54
INSUL238	2	2.375	51	60
INSUL258	2.125	2.625	54	67
INSUL278	2.375	2.875	60	73
INSUL318	2.625	3.125	67	79
INSUL312	2.875	3.5	73	89
INSUL358	3.125	3.625	79	92
INSUL418	3.5	4.125	89	105
INSUL412	4	4.5	102	114
INSUL558	5	5.625	127	143
INSUL658	6	6.625	152	168

NOTE: *1.8m (6ft) long



Part No.	Description
INSULEZ48	48 in x 48 in (122 cm x 122 cm) Adhesive Backed Sheet Insulation

A grayscale photograph of industrial machinery, likely a steam boiler or engine, with various pipes, valves, and a large flywheel. Steam is rising from the equipment, creating a hazy atmosphere. The image is used as a background for the text.

TEMPERATURE CONTROLLERS

Temperature Controllers are a vital piece in freeze protection, optimizing your systems energy efficiency. These devices ensure that heat is applied only when and where it's truly needed, preventing both under-protection and unnecessary energy consumption. Their role is crucial in maximizing efficiency, reducing operational costs, and enhancing the overall safety and effectiveness of heated systems.

TC4X DIGITAL CONTROLLER - NEMA 4X ENCLOSURE



FEATURES & BENEFITS

- Can be used in freezing conditions to prevent equipment damage, ensuring reliable cold-weather protection
- 3-key touch pad interface
- Includes temperature sensor
- On/off control with status indicator
- Outdoor and wet-area use — NEMA 4X/IP66 plastic enclosure

SPECIFICATIONS

Voltage: 110–240 VAC
Maximum Amp Load: 15 amps at 110–120 VAC; 10 amps at 208–240 VAC
Temperature Control Range: -30°F to 212°F (-34°C to 100°C)
Connections: Hardwire; NEMA 4X/IP66 requires liquid-tight fitting

ORDERING INFORMATION

Part No.	Sensor Lead Length in (mm)
TC4X-1	9 (229)
TC4X-2	78 (1981)

TD101 AUTOMATIC ON/OFF THERMOSTAT CONTROL



FEATURES & BENEFITS

- Weatherproof on/off thermostat control with temperature-sensitive bimetal disc
- Ideal for freeze protection systems in exposed or outdoor areas, helping maintain safe operating temperatures
- Mounts directly to heated surface
- Single pole double throw (SPDT) switch

SPECIFICATIONS

Voltage: 120–240 VAC UL (120–240 VAC CSA)
Maximum Amp Load: Up to 25 amps (depending on volts and temperature)

ORDERING INFORMATION

Part No.		Volts (VAC)	Amps	Settings	
Without Conduit Fitting	With Conduit Fitting			Close °F (°C)	Open °F (°C)
TD101N-050	TD101C-050	Up to 277	25	37 (3)	47 (9)
TD101N-060	TD101C-060	Up to 277	25	45 (7)	60 (16)
TD101N-075	TD101C-075	Up to 277	25	60 (16)	75 (24)
TD101N-105	TD101C-105	Up to 277	25	90 (32)	105 (41)
TD101N-200	TD101C-200	Up to 277	25	185 (85)	200 (93)

TB250N ALL PURPOSE BULB & CAPILLARY CONTROLLER



FEATURES & BENEFITS

- Wide temperature range ensures reliable freeze protection in extreme cold
- SPDT switch
- Suitable for outdoor use
- Simple dial setpoint
- NEMA 3R enclosure

SPECIFICATIONS

Maximum Amp Load: 22 amps

Sensor Input: Tinned copper bulb and capillary, 10 ft (3 m) long

Environmental Exposure Operating Range: -40°F to 160°F (-40°C to 71°C)

ORDERING INFORMATION

Part No.	Volts	Amps	Range
TB250N-250	Up to 277	22	100°F to 250°F (38°C to 121°C)

TB250P ALL-PURPOSE BULB & CAPILLARY



FEATURES & BENEFITS

- Reliable cold-weather temperature control protects vital equipment from freeze-related failures in outdoor environments.
- SPDT switch
- Simple dial setpoint
- NEMA 4X enclosure

SPECIFICATIONS

Maximum Amp Load: 22 amps (SPST)

Sensor Input: Tinned copper bulb and capillary, 10 ft (3 m) long

Environmental Exposure Operating Range: -26°F to 140°F (-3°C to 60°C)

ORDERING INFORMATION

Part No.	Volts	Amps	Range
TB250P-150	Up to 277	22	0°F to 150°F (-18°C to 66°C)

ETI SNOW SWITCH MODEL GIT-1

FEATURES & BENEFITS

- **Efficient Deicing:** Automatically activates heating systems only when conditions require, minimizing operating costs.
- **Enhanced Accuracy:** Gutter-mounted design provides precise sensing of actual moisture and temperature conditions.
- **Advanced Reliability:** Microcontroller-based technology prevents ice bridging and tunneling, common issues in standard gutter sensors.
- **Flexible Installation:** Features low-voltage operation and allows for sensor placement up to 2,000 ft (609.6 m) away from the control panel.



ORDERING INFORMATION

Part No.	Description
11351	GIT-1 Gutter Ice Sensor (Mounting clamps are included)

ETI SNOW SWITCH® MODEL GF PRO

FEATURES & BENEFITS

- **Efficient Control:** Automatic operation minimizes energy consumption; includes an adjustable "Hold-On" timer to ensure surfaces are completely dry.
- **Robust Design:** Weather-resistant NEMA 4X enclosure; rated for up to 30 amp resistive loads with a supply voltage of 100–277 VAC.
- **Advanced Safety:** Integrated 30mA GFEP with digital filtering to prevent false tripping; UL Listed for temperature regulating equipment.
- **Versatile Integration:** Compatible with up to two Environmental Technology sensors (sold separately) for tailored site requirements.
- **Flexible Operation:** Features manual-override controls and is compatible with the optional RCU-4 remote control unit for convenient management.

ORDERING INFORMATION

GF Pro Snow Switch

Part No.	Description
23917	GF Pro Snow Switch

Snow/Ice Sensors (Not Included)

Part No.	Description
23917	Git-1 Gutter Ice Sensor
24219	SIT-6E Pavement Mounted Snow and Ice Sensor



SPECIFICATIONS

Area of Use: Nonhazardous locations

Dimensions: 5 1/2" (L) x 8 1/8" (W) x 4 3/8" (H) / 140mm (L) x 207mm (W) x 112mm (H)

Protection: IP 66, NEMA 4X

Entries:

- 2 x 3/4" entry (bottom right) for NEC Class 2 connections
- 3 x 1-1/16" entries (bottom left) for supply and load power

Mounting: Wall mount

Supply Voltage: 100 – 277 VAC; 50/60 Hz

Load: 30 amp maximum resistive

Power Cable: Size for heater load (30 amps maximum)

Heater Cable: Size for maximum heater load

Operating Temperature: -31°F to 113°F (-35°C to 45°C)

Storage Temperature: -67°F to 167°F (-55°C to 75°C)

ETI SNOW SWITCH® MODEL LCD-8



FEATURES & BENEFITS

- **Efficient Operation:** Automatically controls heater loads up to 16A (resistive) or 3A (inductive) to minimize energy costs.
- **Configurable Settings:** Easily adjust temperature set points and hold-on times to suit specific site requirements.
- **Sno-Test™ Technology:** Simplifies system verification by performing an automatic self-test upon power-up, eliminating the need for manual ice testing.
- **Intuitive Design:** Includes an internal magnetic reed switch for manual heater cycling and configuration without the need to open the enclosure.
- **Durable Construction:** Weather-resistant NEMA 3R rating; operates in extreme temperatures ranging from -40°F to 140°F (-40°C to 60°C).
- **Safety Certified:** C-UL-US Listed for Temperature Regulating Equipment.

SPECIFICATIONS

Area of Use: Nonhazardous locations

Dimensions: 4.6" (W) x 6.1" (H) / 117mm (W) x 155mm (H)

Protection: NEMA 3R

Entries: 1 x 3/4" entry (bottom)

Mounting: Pole mount

Supply Voltage:

- ETI PN 24619: 100VAC – 240VAC; 50/60 Hz
- ETI PN 24781: 24VAC; 50/60 Hz

Load: 3 amp maximum inductive, 16 amp maximum resistive

Power Cable: Size for heater load (16 amps maximum)

Heater Cable: Size for maximum heater load

Operating Temperature: -40°F to 104°F (-40°C to 40°C)

Storage Temperature: 67°F to 167°F (-55°C to 75°C)

ORDERING INFORMATION

Part No.	Description
24619	LCD-8, 120VAC – 240VAC
24781	LCD-8, 24VAC

ETI SIT-6E & HSC-24 PAVEMENT-MOUNTED SENSORS



Snow Switch® Model SIT-6E

This self-contained unit eliminates the need for an additional control panel, featuring an independent relay-contact output that integrates seamlessly with most electric and hydronic heater control systems. The sensor activates at pavement temperatures below 38°F (3.3°C) when moisture—including water, snow, sleet, or ice—is detected.

FEATURES & BENEFITS

- **Precise Control:** Enables deicing based on actual pavement conditions to reduce energy waste.
- **Rugged Reliability:** Durable construction designed for long-term, trouble-free operation in demanding outdoor environments.
- **Simplified Integration:** Low-voltage operation and straightforward installation; meets NEC Class requirements for wet locations.
- **System Flexibility:** Compatible with a wide range of ETI control panels and ideal for use with aerial sensors for proactive snow detection.

SPECIFICATIONS

Activation Temperature: 38° F (3.3° C)

Dimensions:

- Top Diameter: 3.875 in (9.84 cm)
- Top Thickness: 0.25 in (6.35 mm)
- Mounting Depth: 2 in (5 cm)

Supply Voltage: 24V FWR +/-15% (supplied by panel)

Supply Current: 5 mA idle, 0.25 A max., 6 W max.

Snow & Ice Response Time 10 to 20 seconds

Operating Temperature: -40°F to 160°F (-40°C to 71°C)

Storage Temperature: -50°F to 180°F (-45°C to 82°C)

Lead Length

- 60 ft (18.3 m) included; may be extended:
- Up to 500' (152m) using 18 AWG 3-wire jacketed cable
- Up to 2,000' (609m) using 12 AWG 3-wire jacketed cable

NOTE: The required pavement sensor housing (ETI part number 23832) is sold separately.

Snow Switch® Model HSC-24

Designed for use with any ETI APS, Pro Series, or EUR model control panel, this sensor ensures deicing heaters operate only when necessary, effectively minimizing energy costs while ensuring optimal snow melting performance. The sensor activates at pavement temperatures below 38°F (3.3°C) when moisture—including water, snow, sleet, or ice—is detected.

FEATURES & BENEFITS

- **Accurate Sensing:** Directly monitors pavement conditions to provide precise, reliable system control.
- **Self-Contained Design:** Operates independently, removing the need for extra control panels.
- **Versatile Compatibility:** 24-volt operation integrates with a wide range of electric and hydronic systems.
- **Advanced Safety:** NEC Class 2 circuit ensures safe operation in wet, outdoor locations.
- **Easy Verification:** Built-in self-test functions allow for quick and simple operational checks.
- **Durable Construction:** Engineered for a long, trouble-free service life in demanding environments.

SPECIFICATIONS

Activation Temperature: 38° F (3.3° C)

Dimensions:

- Top Diameter: 9.84 cm (3.875 in)
- Top Thickness: 6.35 mm (0.25 in)
- Mounting Depth: 5 cm (2 in)

Supply Voltage: 24 Vac +/- 15%

Supply Current: 5 mA idle, 0.25 A max.

Snow & Ice Response Time: 10 to 20 seconds

Operating Temperature: -40 °C to 70 °C (-40 °F to 158 °F)

Snow/Ice Sense Temperature Range: -30 °C to 3 °C (-22 °F to 38 °F)

Storage Temperature: -50°F to 180°F (-45°C to 82°C)

Lead Length:

- 60 ft (18.3 m) or 200ft (60.96 m) included; may be extended:
- Up to 500' (152m) using 18 AWG 3-wire jacketed cable
- Up to 2,000' (609m) using 12 AWG 3-wire jacketed cable

ORDERING INFORMATION

Order Number	Description
24219	SIT-6E Pavement-Mounted Sensor (requires 23832 Pavement Sensor Housing)
23832	Pavement Sensor Housing (not included)

Order Number	Description
25125	HSC-24 Pavement-Mounted Sensor (requires Pavement Sensor Housing)
23832	Pavement Sensor Housing (not included)

ETI SNOW SWITCH® PAVEMENT SENSOR HOUSING



Snow Switch® Pavement Sensor Housing:

The Snow Switch Pavement Sensor Housing is needed for each pavement sensor. This housing supports the sensor within the pavement and includes adjustment screws that allow proper leveling with the pavement surface.

NOTE: This Pavement Sensor Housings is **required** when using the Snow Switch Model SIT-65 or the HSC-24.

ACCESSORIES

Part No.	Description
23832	Pavement Sensor Housing

ETI SNOW OWL SNOW/ICE SENSOR

FEATURES & BENEFITS

- **Efficient Operation:** Reduces energy consumption by activating heating systems only when conditions require, with a 1-minute hold-on time.
- **Flexible Installation:** Mounts on 3/4" PVC conduit (with options for 1/2" conduit or NPT) and supports up to 2,000 ft. (609.6 m) separation from the control panel.
- **Reliable Performance:** Features a heated moisture-sensing grid and a convenient power-on self-test to verify operational status.
- **Durable Construction:** Built with UV-tolerant, corrosion-resistant materials for long-lasting outdoor service; Made in the U.S.A.
- **User-Friendly:** Wire colors match standard cable for easy installation; safe low-voltage (24V AC/DC) operation.

NOTE: Can be mounted 500 feet from the controller using 22ga cable or up to 1,000 ft. using 18ga cable (Depending on load requirements)



SPECIFICATIONS

Input Power: 24V AC 50/60Hz, 24V DC, or 24V full wave rectified AC/ pulsed DC 0.2A max

Output:

- Relay contacts: 2Amax, 30V
- Relay contacts close when ambient temperature is at or below the set points temperature and precipitation is detected
- Relay contacts remain closed during pre-set delay after snow event ends
- Three wire connections (2 for power, 1 for relay)

Dimensions: 3-3/4 inches tall, 1-3/4 inches diameter

Set Point Temperature: 38°F

Hold-on Times: Set 1minute

Storage Temp: -40°C to +85°C

ORDERING INFORMATION

Part No.	Description
25516	Snow Switch ETI Snow Owl



Additional ETi Sensors & Controllers

Scan the QR Code to view our full catalog of ETI Snow & Ice Melting Solutions for Aerial, Pavement, and Gutter Applications.

TB110 HAZARDOUS-AREA BULB & CAPILLARY CONTROLLER



FEATURES & BENEFITS

- Temperature control on heat tracing, freeze protection, and process maintenance applications
- Numerous temperature range choices to fit your application

SPECIFICATIONS

Voltage: Up to 480 VAC

Maximum Amp Load: 22 amps

Enclosure Rating: NEMA 7 & 9, for hazardous areas

ORDERING INFORMATION *Bulb & Capillary*

Part No. Single Setpoint	Part No. Dual Setpoint	Set-Point Range	Bulb Dimensions	
			Diameter in (mm)	Length in (mm)
TB111N-325	TB112N-325	25°F to 325°F (-4°C to 163°C)	0.25 (6)	10.25 (200)
TB113N-650	TB114N-650	300°F to 650°F (149°C to 343°C)	0.25 (6)	12.50 (318)

ORDERING INFORMATION *Ambient Sensing*

Part No.	Setpoint Range	Bulb Dimensions	
		Diameter in (mm)	Length in (mm)
TB110N-140	15°F to 140°F (-9°C to 60°C)	0.56 (14)	2.69 (68)

BH-510 & BH-610 OUTDOOR DIGITAL CONTROLLERS

BH-510



BH-610

FEATURES & BENEFITS

- Wide control range delivers precise freeze protection in harsh outdoor conditions
- Outdoor and wet-area use — IP65
- Fast-adaptive-tuning and 4-key touch pad interface

SPECIFICATIONS

Input Voltage: 90-260 VAC, 50-60 HZ

Maximum Amp Load: BH-510: 10 amps (16 amps with ext. fuse); BH-610: 40 amps

Display: LCD graphic display with 3-color LEDs for signaling of operating conditions

ORDERING INFORMATION

Part No.	Description	Amps	Temperature Control Range
WRW510SR-BH01	BH-510 wall mounted	16A max	-328°F to 2464°F (-200°C to 1350°C)
WRW610SR-BH01	BH-610 wall mounted	40A max	-328°F to 2464°F (-200°C to 1350°C)

TC4000 HIGH-CAPACITY WET-AREA DIGITAL CONTROLLER

FEATURES & BENEFITS

- Built to deliver reliable freeze protection with durable industrial-grade design
- Dual-zone controller suitable for outdoor, indoor, or industrial environments
- 24 amps for single zone and 48 amps for dual zone
- Handles self-regulating cable in-rush and high-watt heaters
- Circuit breakers for over-current protection



SPECIFICATIONS

Voltage: 100-240, 480 VAC single or 3-phase

Temperature Control Range: -40°F to 999°F (-40°C to 999°C)

Sensor Input: Type-J or Type-K thermocouple

Enclosure Rating/Classification Designation: NEMA 4X enclosure with clear door; IP65 (requires IP65 fittings)

Environmental Exposure Operating Range: 32°F to 104°F (0°C to 40°C)

PART NUMBER MATRIX

Example: **TC4223N**

Product Series	Control Zones	Current Rating	Voltage Rating	Ambient Temperature
TC4	1 Single Zone	1 One Output (30A)	1 100-240 VAC 1-Phase	N 32°F to 104°F (0°C to 40°C)
	2 Dual Zone	2 Two Outputs (30A each)	2 480 VAC 1-Phase	L -30°F to 104°F (-34°C to 40°C)
			3 100-240 VAC 3-Phase	
			4 480 VAC 3-Phase	

TB4000 HIGH-CAPACITY BULB & CAPILLARY CONTROLLER

FEATURES & BENEFITS

Precise temperature control prevents freeze damage in harsh outdoor conditions

- High amperage load up to 50 amps per zone
- Available with temperature cut-off
- Suitable for outdoor use
- NEMA 4X enclosure



SPECIFICATIONS

Voltage: 120, 240, 277, or 480 VAC with 3-phase option

Temperature Control Range: 0°F to 150°F, 50°F to 300°F, or 150°F to 650°F (-18°C to 66°C, 10°C to 149°C, 66°C to 343°C)

PART NUMBER MATRIX

Example: **TB4221-300**

Product Series	Type of Enclosure	Length	Contactors	Sensitive	Temperature Range
TB	4 - Plastic	1 Single Zone	0 No Contactor / 15 amps Single Phase	1 (120)	150 0 to 150°F (-17 to 66°C)
	5 - Metal	2 Single with Low or High Temperature Alarm	1 One Contactor / 50 amps Single or 3-Phase	2 (240)	300 50 to 300°F (10 to 149°C)
		3 Single with High Limit Cutout	2 Two Contactors / 50 amps each Single or 3-Phase	3 (277)	650 150 to 650°F [66 to 343°C]
		4 Dual Zone		4 (480)	



CONTAINER HEATERS

For materials stored in drums, totes, and gas cylinders, container heaters are indispensable for maintaining product integrity and flowability in cold environments. They prevent crystallization, solidification and gelling of liquids, moisture absorption of bulk powders, and underutilization of gases. Ensuring that materials remain at optimal temperature for storage, dispensing, and processing, helping avoid costly material waste, operational delays, and reduced product quality.

WET-AREA WRAPAROUND HEATERS & INSULATORS

FEATURES & BENEFITS

- Delivers reliable freeze protection for IBC Tanks with insulated materials for cold or wet conditions
- Extra-durable, water-resistant design for outdoor/indoor use and in wash-down environments
- Insulated, full-coverage design
- Heater has easy-to-program digital controller: Adjustable up to 140°F (60°C)
- Lightweight and easy-to-install with adjustable buckles
- Suitable for both metal and plastic IBC/tote tanks
- Ideal for a wide range of environments including outdoor and wash-down locations
- Even heat distribution and maximum energy efficiency
- Does not contaminate or scorch your product
- Easy-to-use — simple plug-and-play design
- Reusable and rugged — long service life
- Safe — features a unique 360° grounded heating element and cool-touch surface for your safety



**Easy-to-program
digital controller**



**Adjustable nylon
straps with buckles**

WET-AREA WRAPAROUND IBC/TOTE TANK HEATERS & INSULATORS



**Heater
(TOTEW series)**

**Insulator
(TOTEWI series)**



Optional Insulating Cover

WET-AREA WRAPAROUND DRUM HEATERS & INSULATORS



**Heater
(FGDHW series)**

**Insulator
(FGDIW series)**



Optional Insulating Cover

WET-AREA WRAPAROUND IBC/TOTE TANK HEATERS & INSULATORS



SPECIFICATIONS

Outer Material: Extra-durable polyester cloth

Insulation: 0.5 in (13 mm) thick closed-cell melamine

Closure Method: Adjustable straps with buckles

Maximum Exposure Temperature: 180°F (82°C)

Height: 36 in (914 mm), 42 in (1067 mm), or 48 in (1220 mm)

Circumference: Fits any vessel from 160 in (4064 mm) to 192 in (4877 mm)

IP Rating: IP54

ADDITIONAL SPECIFICATIONS FOR HEATER

Operating Temperature: Up to 140°F (60°C)

Digital Control: Programmable in °F and °C

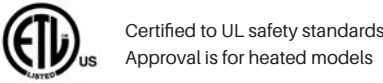
Built-in High-Limit Safety Thermostat: 185°F (85°C)

Heating Element: 360° grounded heating element for your safety

Dielectric Strength: Over 2000 volts

Power Cord: 6 ft (1.8 m) long

- **120 VAC:** 3-prong grounded plug (NEMA 5-15P)
- **240 VAC:** 3-prong grounded plug (NEMA 6-15P)



ORDERING INFORMATION

Heaters

Part No. 120VAC	Part No. 240VAC	Height in (mm)	Capacity gal (l)	Tank Perimeter Minimum	Tank Perimeter Maximum	Weight lbs (kg)	Total Wattage
TOTEW361-ADJV	TOTEW362-ADJV	36 (914)	175 - 250 (640 - 950)	160 (4060)	192 (4880)	19 (9)	1440
TOTEW421-ADJV	TOTEW422-ADJV	42 (1067)	275 (1000)	160 (4060)	192 (4880)	23 (10)	1440
TOTEW481-ADJV	TOTEW482-ADJV	48 (1220)	330 (1250)	160 (4060)	192 (4880)	26 (12)	1440

Insulators

Part No.	Height in (mm)	Capacity gal (l)	Tank Perimeter Minimum in (mm)	Tank Perimeter Maximum in (mm)	Weight lbs (kg)
TOTEW36IV	36 (914)	175 - 250 (640 - 950)	160 (4060)	192 (4880)	16 (7)
TOTEW42IV	42 (1067)	275 (1000)	160 (4060)	192 (4880)	20 (9)
TOTEW48IV	48 (1220)	330 (1250)	160 (4060)	192 (4880)	23 (11)

ACCESSORIES

Part No.	Description
TOTEW-TOPV	Optional insulated top cover

Dimensions of top cover: 40 x 40 in (1016 x 1016 mm) with 4 in (102 mm) wide flaps. Flaps expand maximum dimensions to 48 x 48 in (1219 x 1219 mm) Insulation thickness of top cover: 0.25 in (6 mm)

WET-AREA FULL-COVERAGE DRUM/PAIL HEATERS & INSULATORS



Certified to UL safety standards
Approval is for heated models

SPECIFICATIONS

- Outer Material:** Extra-durable polyester cloth
- Insulation:** 0.5 in (13 mm) thick closed-cell melamine
- Closure Method:** Adjustable straps with buckles
- Maximum Exposure Temperature:** 180°F (82°C)
- IP Rating:** IP54

ADDITIONAL SPECIFICATIONS FOR HEATER

- Operating Temperature:** Up to 140°F (60°C)
- Digital Control:** Programmable in °F and °C
- Built-in High-Limit Safety Thermostat:** 185°F (85°C)
- Heating Element:** 360° grounded heating element for your safety
- Dielectric Strength:** Over 2000 volts
- Power Cord:** 6 ft (1.8 m) long
 - **120 VAC:** 3-prong grounded plug (NEMA 5-15P)
 - **240 VAC:** 3-prong grounded plug (NEMA 6-15P)

- Heated Area:**
 - **55 and 30-gallon size (208 and 114 liter):** Lower two thirds
 - **15 and 5-gallon size (61 and 19 liter):** Lower third

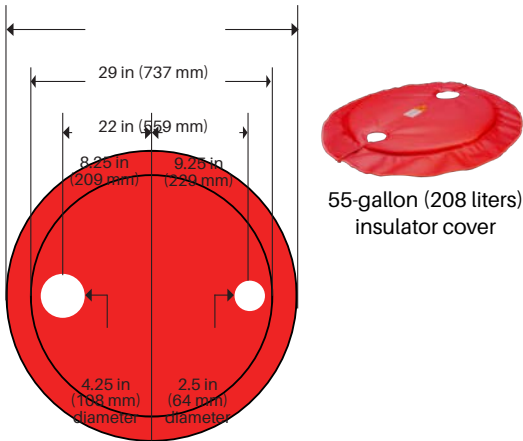
ORDERING INFORMATION

Heaters

Part No. 120VAC	Part No. 240VAC	Height in (mm)	Capacity gal (l)	Minimum Diameter in (mm)	Maximum Diameter in (mm)	Weight lbs (kg)	Total Wattage
FGPDHWC5120DV	FGPDHWC5240DV	13.5 (343)	5 (19)	10.8 (274)	12.4 (315)	6 (2.4)	165
FGPDHWC15120DV	FGPDHWC15240DV	26.7 (678)	15 to 16 (57 to 61)	14.3 (363)	15.9 (404)	8 (3.3)	210
FGPDHWC30120DV	FGPDHWC30240DV	29.5 (749)	30 (114)	18.8 (478)	20.3 (516)	10 (4.2)	300
FGPDHWC55120DV	FGPDHWC55240DV	36.4 (924)	55 (208)	22.2 (564)	24.2 (615)	13 (5.6)	600

Insulators

Part No.	Height in (mm)	Capacity gal (l)	Minimum Diameter in (mm)	Maximum Diameter in (mm)	Weight lbs (kg)
FGDIW5V	13.5 (343)	5 (19)	9.8 (249)	11.7 (297)	3 (1.4)
FGDIW15V	26.7 (678)	15 to 16 (57 to 61)	12.7 (323)	14.6 (371)	5 (2.3)
FGDIW30V	29.5 (749)	30 (114)	17.5 (444)	19.4 (493)	7 (3.2)
FGDIW55V	36.4 (924)	55 (200 -208)	21.1 (536)	22.9 (582)	10 (4.5)



ACCESSORIES

Part No.	Description	Diameter
FGDWC55V	Insulating cover; 55 gallon (208 liters)	22 to 29 in (559 to 737mm)

WRAPAROUND IBC/TOTE TANK HEATERS & INSULATORS



Image above shown with optional top cover (sold separately)

FEATURES & BENEFITS

- Prevents freezing of IBC contents with efficient, adjustable heat tailored to varying fill levels
- Insulated, full-coverage design
- Adjustable analog thermostat control up to 160°F (71°C)
- Two separate heat zones allow users to adjust heater output as content levels decrease
- Built-in high limit safety thermostat set at 195°F (91°C)
- Adjustable buckles allow heater to fit several sizes of caged, plastic, and metal tote tanks/IBCs
- Even heat distribution and maximum energy efficiency



Controls temperature easily with adjustable thermostats



Mouse hole provides easy access to spigot

ORDERING INFORMATION

Part No. 120 VAC with NEMA 5-15P Plug	Part No. 240 VAC with NEMA 6-15P Plug	Height in (mm)	Capacity gal (l)	Tank Perimeter Minimum in (mm)	Tank Perimeter Maximum in (mm)	Total Wattage
TOTE361-ADJV	—	36 (914)	175-250 (640-950)	160 (4060)	192 (4880)	1440
TOTE421-ADJV	—	42 (1067)	275 (1000)	160 (4060)	192 (4880)	1440
TOTE481-ADJV	—	48 (1220)	330 (1250)	160 (4060)	192 (4880)	1440
—	TOTE362-ADJV	36 (914)	175-250 (640-950)	160 (4060)	192 (4880)	2880
—	TOTE422-ADJV	42 (1067)	275 (1000)	160 (4060)	192 (4880)	2880
—	TOTE482-ADJV	48 (1220)	330 (1250)	160 (4060)	192 (4880)	2880

*For indoor, dry area use.

ACCESSORIES

Part No.	Description
TOTE-TOPV	Tote tank cover
FGDC55V	Drum insulation cover for 55 gal (208l)
FGDHSTRIPV	6 in (152 mm) wide strip



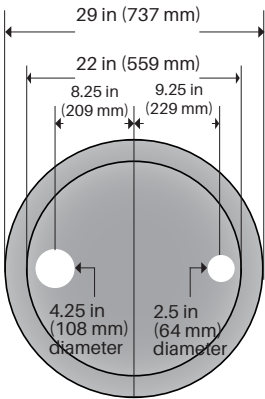
Tote Tank Insulating Cover
Minimizes heat loss



FGDC55V Drum Insulating Cover
Helps reduce heat loss and speeds up heat time



FGDHSTRIPV
Expansion Strip
Expands heater to fit up to a 24.2 in (615 mm) diameter drum



TTI TOTE TANK/IBC IMMERSION HEATERS

FEATURES & BENEFITS

- **Versatility** – Can be used on both poly and metal drums and tote tanks/IBC containers
- **Easy Installation** – Screws directly into the top of the tote/IBC for hassle-free setup
- Constructed with materials for their compatibility with food applications, as well as their exceptional temperature and corrosion resistance
- **Improved Design** – Heating partially empty containers
- **Adjustable Control** – Precise temperature regulation
- **Safety** – Grounded design and high-limit shutoff for added protection

SPECIFICATIONS

Voltage: 120 or 240 VAC

Wattage: 1500

Flange Connection Type: 2 in (51 mm) NPT bushing

Immersion Length: 31.75 in (806 mm), from the bushing adapter

Immersion Width: 19.0 in (483 mm) heated

Temperature Range: Up to 167°F (75°C)

Temperature Display: 3-digit 0.4 in (11.1 mm) high LED

Heater Construction: Incoloy 840 (heating element), 316 SS (screw plug)

Set-point Range: 41 to 122°F (5 to 50°C)

Controller Ingress Protection Rating: IP55

Accuracy: 0.2°F (0.1°C)

Alarm: High-limit visual at 180°F (82°C)

Power Cord: 10 ft (3 m) long

— **120V** includes standard 3-prong plug (NEMA 5-15)

— **240V** includes bare wire leads

NOTE: The heating element should be fully submerged. This should not be used with most acidic or caustic liquids.

ORDERING INFORMATION

Part No.	Volts	Temp Display Units	Wattage	Drum Size Gal (l)	Tote/IBC Length
TTI120	120	°F	1500	55(208)	31.75 (806)
TTI240	240	°F	1500	55(208)	31.75 (806)
TTI240-C	240	°C	1500	55(208)	31.75 (806)

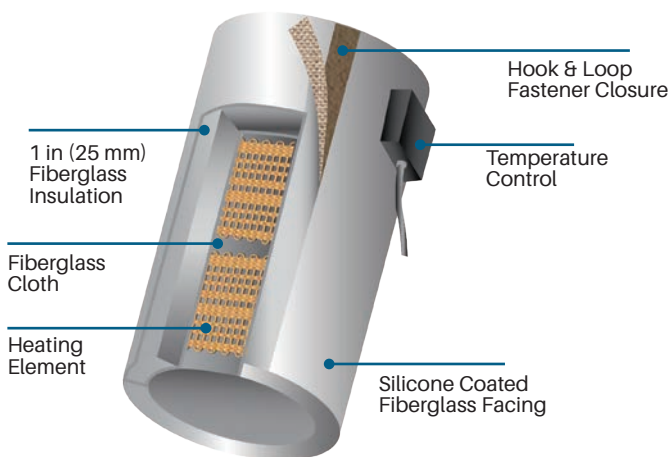


TTI Screws directly on top of tank - cap adapter for easy installation



★ Get **even faster heat-ups** when used with a BriskHeat® Wet-area IBC/tote Heaters & Insulators.

FULL-COVERAGE DRUM/PAIL HEATERS & INSULATORS



FEATURES & BENEFITS

- Efficiently safeguards drum and pail contents from freeze damage with even heat distribution and precise control
- Insulated to maximize energy efficiency and reduce heat-up time
- Heater has easy-to-program digital controller that is adjustable up to 160°F or 450°F (71°C or 232°C)
- For use in indoor/dry environments — IP4X
- 6 ft (1.8 m) long power cord with choice of plug or leads
- Even heat distribution and maximum energy efficiency
- Display is mounted on top of controller box for increased visibility and user convenience
- For use in a wide range of poly and metal drum/pail heating applications including viscosity control, freeze protection, temperature maintenance, melting of solids, and thermal mixing

SPECIFICATIONS

Outer Material: Silicone impregnated cloth

Insulation: 1.0 in (25 mm) thick fiberglass

Closure Method: Hook and loop fasteners

Maximum Exposure Temperature: 500°F (260°C)

ADDITIONAL SPECIFICATIONS FOR HEATER

Operating Temperature:

- 50°F to 450°F (10°C to 232°C) for Metal Drums

- 50°F to 160°F (10°C to 71°C) for Poly Drums

Heated Area:

- 55 and 30 gal size (208 and 114 l): Lower two thirds

- 15 and 5 gal size (61 and 19 l): Lower third

Heating Element: 360° grounded heating element for your safety



ORDERING INFORMATION

General-Purpose (FGD Series) – for Metal & Poly Drums

Part No.									
120 VAC with °F display and NEMA 5-15P plug	240 VAC with °F display and NEMA 6-15P plug	240 VAC with °C display and crimped ferrule leads	Insulator Only	Size gal (l)	Diameter in (mm)	Height in (mm)	Number of Zones	Total Wattage	
FGDHC55120DV	FGDHC55240DV	FGDHC55240DCV	FGDI55V	55 (208)	22.3 (566)	36.4 (924)	1	1600	
FGDHC30120D	FGDHC30240D	FGDHC30240DC	FGDI30	30 (114)	18.6 (473)	29.5 (749)	1	1160	
FGDHC15120D	FGDHC15240D	FGDHC15240DC	FGDI15	16 (61)	14.0 (355)	26.7 (678)	1	870	
FGDHC5120D	FGDHC5240D	FGDHC5240DC	—	5 (19)	11.1 (282)	13.5 (343)	1	550	
FGPDHC55120DV	FGPDHC55240DV	FGPDHC55240DCV	—	55 (208)	22.3 (566)	36.4 (924)	1	770	
FGPDHC30120D	—	—	—	30 (114)	18.6 (473)	29.5 (749)	1	553	
—	FGDDC55240DV*	FGDDC55240DCV*	—	55 (208)	22.3 (566)	36.4 (924)	2	3200	

*Designed to quickly melt materials like molasses, syrups, and other highly viscous materials. For indoor, dry-area use.

DHI DRUM IMMERSION HEATERS



DHI screws directly on top of drum for an easy installation



*Get **even faster heat-ups** when used with a BriskHeat® Wet-area Drum Heaters & Insulators.

FEATURES & BENEFITS

- **Versatility** – Can be used on both poly and metal drums and tote tanks/IBC containers
- **Easy Installation** – Screws directly into the top of the tote/IBC for hassle-free setup
- Constructed with materials for their compatibility with food applications, as well as their exceptional temperature and corrosion resistance
- **Improved Design** – Heating partially empty containers
- **Adjustable Control** – Precise temperature regulation
- **Safety** – Grounded design and high-limit shutoff for added protection

SPECIFICATIONS

Voltage: 120 or 240 VAC

Wattage: 1000

Flange Connection Type: 2 in (51 mm) NPT bushing

Immersion Length: 31.75 in (806 mm), from the bushing adapter

Immersion Width: 19.0 in (483 mm) heated

Temperature Range: Up to 167°F (75°C)

Temperature Display: 3-digit 0.4 in (11.1 mm) high LED

Heater Construction: Incoloy 840 (heating element), 316 SS (screw plug)

Set-point Range: 41 to 122°F (5 to 50°C)

Controller Ingress Protection Rating: IP55

Accuracy: 0.2°F (0.1°C)

Alarm: High-limit visual at 180°F (82°C)

Power Cord: 10 ft (3 m) long

— **120V** includes standard 3-prong plug (NEMA 5-15)

— **240V** includes bare wire leads

NOTE: The heating element should be fully submerged. This should not be used with most acidic or caustic liquids.

ORDERING INFORMATION

Part No.	Volts	Temp Display Units	Wattage	Drum Size Gal (l)	Drum Diameter In (mm)	Drum Height In (mm)
DHI120	120	°F	1000	55(208)	22(57)	36(914)
DHI240	240	°F	1000	55(208)	22(57)	36(914)
DHI240-C	240	°C	1000	55(208)	22(57)	36(914)

SILICONE RUBBER DRUM/PAIL HEATERS (HEAVY & EXTRA HEAVY-DUTY)



Heaters should always be placed below fill level of container.



CE Models with bare wire leads



CSA /cURus models available upon request

FEATURES & BENEFITS

- Engineered for dependable freeze prevention with wide coverage and tough, weather-resistant construction
- Exceptional durability and flexibility for a wide range of poly and metal drum/pail heating applications
- Adjustable thermostat with temperatures up to 160°F or 425°F (71°C or 218°C)
- Extra-wide 4 in (102 mm) surface coverage
- Moisture and chemical resistant — IP54
- Solves a wide range of drum and pail heating applications including viscosity control, freeze protection, temperature maintenance, and melting solids
- Expandable spring closure expands up to 3 in (76 mm)

NOTE: If precise temperature control is required for your application, please contact BriskHeat or your local distributor for application assistance and product solutions.

WHAT IS THE DIFFERENCE BETWEEN HEAVY-DUTY AND EXTRA HEAVY-DUTY?

Heavy-Duty (DHCS/DPCS/DHLS series): Designed with two extra-thick layers of fiberglass reinforced silicone rubber for excellent strength and durability

Extra Heavy-Duty (DHCH/DPCH series): Designed with three extra-thick layers of fiberglass reinforced silicone rubber for ultimate strength and durability. The longest lasting and most durable silicone drum heater

ORDERING INFORMATION

Heavy-Duty											
Part No. 120 VAC	Part No. 240 VAC	Part No. 120 VAC	Part No. 240 VAC	Drum Size gal (l)	Drum Diameter in	Drum Diameter mm	Heater Length in (mm)	Drum Type	Adjustable Thermostat Range	Watt Density	Watts
DHCS10	DHCS20	DHCH10	DHCH20	3.5-7 (13-26)	11.1-12.1	282-307	35.0 (889)	Metal	Up to 425°F (218°C)	5.0 W/in ² (0.78 W/cm ²)	550
DHCS11	DHCS21	DHCH11	DHCH21	15-16 (57-61)	14.0-15.0	355-381	44.0 (1118)				700
DHCS13	DHCS23	DHCH13	DHCH23	30 (114)	18.6-19.6	472-498	58.5 (1486)				1000
DHCS15	DHCS25	DHCH15	DHCH25	55 (200-208)	22.3-23.2	566-589	70.0 (1778)				1200
DHLS10	DHLS20	—	—	3.5-7 (13-26)	11.1-12.1	282-307	35.0 (889)	Metal	Up to 160°F (71°C)	5.0 W/in ² (0.78 W/cm ²)	550
DHLS11	DHLS21	—	—	15-16 (57-61)	14.0-15.0	355-381	44.0 (1118)				700
DHLS13	DHLS23	—	—	30 (114)	18.6-19.6	472-498	58.5 (1486)				1000
DHLS15	DHLS25	—	—	55 (200-208)	22.3-23.2	566-589	70.0 (1778)				1200
DPCS10	DPCS20	DPCH10	DPCH20	3.5-7 (13-26)	11.1-12.1	282-307	35.0 (889)	Poly	Up to 160°F (71°C)	1.25 W/in ² (0.19 W/cm ²)	150
DPCS11	DPCS21	DPCH11	DPCH21	15-16 (57-61)	14.0-15.0	355-381	44.0 (1118)				208
DPCS13	DPCS23	DPCH13	DPCH23	30 (114)	18.6-19.6	472-498	58.5 (1486)				250
DPCS15	DPCS25	DPCH15	DPCH25	55 (200-208)	22.3-23.2	566-589	70.0 (1778)				300

ACCESSORIES

Part No.	Description
10180	Replacement spring for BriskHeat® Silicone Rubber Drum Heaters



HAZARDOUS-AREA RATED SILICONE RUBBER DRUM HEATERS



Hazardous Locations
Class I, Division 2, Groups
A*, B, C, D
Class II, Division 2, Groups
F, G



Up to 392°F (200°C)



FEATURES & BENEFITS

- Designed for continuous operation in hazardous locations, minimizing freeze risks with durable, high-performance heating
- FM Approved for Class I & II, Division 2 environments
- High-limit thermostat designed to keep heater below NEC Article 500 T-rating
- Dual setpoint NEMA 7 temperature controller connected to a high-temperature limit indicator light
- Extra-wide 8 in (203 mm) surface coverage
- Intrinsically safe and can be used in hazardous environments

SPECIFICATIONS

Power Density: 2.50 watts/in² (0.39 watts/cm²)

Voltage Options: 120 VAC or 240 VAC

High-Limit Thermostat:

- **T3 model:** 292°F (144°C)

- **T4A model:** 158°F (70°C)

DHCX Series: With NEMA 7 controller and pilot light indicator. Includes 6 ft (1.8 m) long power cord with an explosion proof NEMA 5-15P (120 VAC) or NEMA 6-15P plug (240 VAC)

ORDERING INFORMATION

Part No.		Size	Diameter	Total	Length	Width	T-Rating	High-Limit
120 VAC NEMA 5-15P plug	240 VAC bare wire leads	Gal (l)	in (mm)	Wattage	in (mm)	in (mm)		Thermostat Temperature °F (°C)
DHCX131000T3	DHCX231000T3	30 (114)	18.6 (473)	1000	58.5 (1486)	8 (203)	T3	292 (144)
DHCX131000T4A	DHCX231000T4A						T4A	158 (70)
DHCX151300T3	DHCX251300T3	55 (208)	22.3 (566)	1300	70.0 (1778)	8 (203)	T3	292 (144)
DHCX151300T4A	DHCX251300T4A						T4A	158 (70)

*Group A approval valid only for heater without controller. Order DHNX model for heater only.

SILICONE IBC/TOTE TANK HEATER

Includes
an outdoor
digital tem-
perature
controller.



FEATURES & BENEFITS

- Provides consistent bottom-up heat to protect contents from freezing in cold environments
- Installs underneath plastic bladder with direct surface contact
- Optional digital controller
- Does not contaminate product
- Rugged, reusable design for long service life
- 32 x 36 in (813 x 914 mm) heater with 0.25 in (6.35 mm) insulation

SPECIFICATIONS

Operating Temperature: 0°F to 175°F (-18°C to 79°C)

Maximum Exposure Temperature: 180°F (82°C)

Heating Element: 360° grounded heating element

ORDERING INFORMATION

Part No. with °F Control	Part No. with °C Control	Part No. without Control	Volts	Watts
TTH32361DK	TTH32361DK-C	TTH32361D	120	1600
TTH32362DK	TTH32362DK-C	TTH32362D	240	3200

GAS CYLINDER WARMERS



FEATURES & BENEFITS

- Maintains optimal gas pressure in cold conditions by protecting cylinders from freezing
- Self-regulating heating element requires no additional temperature control
- Full coverage warms entire body of gas cylinder
- Boosts process control and reduces waste by increasing pressure through convection
- Even heat distribution and maximum energy efficiency

SPECIFICATIONS

Voltage: 120-240 VAC

Control: Built-in thermostat preset at 45°F (7°C)

Outside Material: Silicone impregnated cloth

Insulation Material: Thick fiberglass

Power Cord: 10 ft (3 m) long (HWC comes with bare wire leads)

- **120 VAC:** Grounded 3-prong plug (NEMA 5-15P)

- **240 VAC:** Crimped ferrule leads

ORDERING INFORMATION

Part No. 120 VAC	Part No. 240 VAC	Environment	Cylinder Size in	Cylinder Size mm	Watts
GCW8481501	GCW8481502	Ordinary Location	8 x 48	203 x 1219	150
GCW9511501	GCW9511502		9 x 51	229 x 1295	150
GCW15431501	GCW15431502		15 x 43	381 x 1092	150
HCW8481501	HCW8481502	Hazardous-Area	8 x 48	203 x 1219	150
HCW9511501	HCW9511502		9 x 51	229 x 1295	150
HCW15431501	HCW15431502		15 x 43	381 x 1092	150

WINTERSHIELD™ FREEZE PROTECTION HEATED POCKETS



ORDERING INFORMATION

Part No. 120 VAC	Part No. 240 VAC	Size	Watts	Dimensions in (mm)
WSP120V	WSP240V	Standard	94	6 x 6 x 7 (152 x 152 x 178)
WSP120LGV	WSP240LGV	Large	200	14 x 20 x 26 (356 x 508 x 660)

FEATURES & BENEFITS

- Creates a pocket of warmth to protect devices against extreme cold
- For use in all weather, sub-freezing environments
- Plug-and-play with extra-long 16 ft (5 m) power cord
- Rugged, one-piece, lightweight design
- Versatile — Fits any object with overall dimensions up to 6 x 6 x 7 in (152 x 152 x 186 mm)
- Easy-to-install and remove — saves on labor cost

SPECIFICATIONS

Voltage: 120-240 VAC

Control: Built-in thermostat preset at 45°F (7°C)

Outside Material: Extra-durable polyester cloth

Insulation Material: Mold/mildew resistant melamine

Power Cord: 16 ft (5 m) long with

- **120 VAC:** Grounded 3-prong plug (NEMA 5-15P)

IP Rating: IP54

Lace-up openings on three sides makes it easy to install and maneuver around obstructions like pipes, electrical wiring, conduits, and bases/stands. Available in custom shapes and sizes.



HEATING BLANKETS

Heating blankets provide versatile and uniform surface heating for a broad spectrum of equipment, offering a highly adaptable solution for freeze protection. Their ability to deliver consistent warmth over various shapes and sizes is crucial for preventing condensation, maintaining temperature sensitive components, and safeguarding critical assets from cold-induced damage.

SRL/SRP/SRM HEAVY-DUTY SILICONE RUBBER HEATING BLANKETS



FEATURES & BENEFITS

- Maintains safe temperatures and prevents freezing on metal and plastic surfaces in harsh industrial environments
- Built-in temperature control for plug-and-play operation
- Exceptional durability for a wide range of industrial uses
- Easy-to-apply industrial strength pressure-sensitive adhesive backing option
- Moisture, chemical, and radiation resistant
- Optional 150°F or 450°F high-limit thermostat on heaters without control

ADDITIONAL SPECIFICATIONS FOR HEATER

Power Density:

- **SRL Series:** 2.50 watts/in² (0.39 watts/cm²) * for metal surfaces
- **SRP Series:** 1.25 watts/in² (0.19 watts/cm²) for plastic surfaces
- **SRM Series:** 2.50 watts/in² (0.39 watts/cm²) for metal surfaces

Adjustable Thermostat:

- **SRL Series:** Up to 425°F (218°C)†
- **SRP Series:** Up to 160°F (71°C)†
- **SRM Series:** Up to 160°F (71°C)†

Voltage: 120 or 240 VAC single phase

Exposure Temperature: -60°F to 450°F (-51°C to 232°C)

Power Cord: 6 ft (1.8 m) long

- 120 VAC with standard 3-prong plug (NEMA 5-15)
- 240 VAC with standard 3-prong plug (NEMA 6-15)

*Consult factory if SRL Series will be used on plastic surface.

†If precise temperature is required, contact your distributor or BriskHeat.



ORDERING INFORMATION

Standard Sizes & Wattage

Size		Total Watts		
Width in (mm)	Length in (mm)	SRL Series 2.5 watts/ in ² (0.39 watts/ cm ²)	SRP Series 1.25 watts/in ² (0.19 watts/ cm ²)	SRM Series 2.5 watts/ in ² (0.39 watts/ mm ²)
6 (152)	12 (305)	180	90	180
6 (152)	24 (610)	360	180	360
6 (152)	36 (914)	540	270	540
12 (305)	12 (305)	360	180	360
12 (305)	24 (610)	720	360	720
12 (305)	36 (914)	1080	540	1080
18 (457)	18 (457)	810	405	810
18 (457)	36 (914)	1472*	810	1472*
24 (610)	24 (610)	1440	720	1440
24 (610)	36 (914)	N/A	1080	1440

PART NUMBER MATRIX

Example: **SRL | 12 | 36 | 2 | P | ADJB = SRL12362PADJB**

Product Series	Width (Inches)	Length (Inches)	Voltage	Sensitive	Ordering Options
SRL (2.50 W/ in ²)	6	12	1 (120 VAC)	P (w PSA)	ADJB (with NEMA 5-15 Plug)
	12	24		Blank (w/o PSA)	
	18	36			
SRP (1.25 W/ in ²)	24		2 (240 VAC)		ADJ (w/o Plug, Ferrule Crimped Wire Terminations) (CSA & CE Approved)
SRM (2.5 W/ in ²)					

SRW STANDARD-DUTY SILICONE RUBBER HEATING BLANKETS



FEATURES & BENEFITS

- Delivers cost-effective freeze prevention with versatile application across various industrial surfaces
- Suitable for tanks, hoppers, conveyors, silos, vessels, etc.
- Economical solution
- Thin, low-profile design with good flexibility

SPECIFICATIONS

Power Density: 5.0 watts/in² (0.78 watts/cm²)

Voltage: 120 or 240 VAC

Exposure Temperature: -60°F to 450°F (-51°C to 232°C)

Power Leads: 10 in (25 cm) PFA extruded 22 AWG leads with bare wire (no plug)

NOTE: Temperature controller is required for this product



ORDERING INFORMATION

Part No. 120 VAC	Part No. 240 VAC	Width in (mm)	Length in (mm)	Watts
SRW010-100A010A00-UR	SRW010-100B010A00-UR	1 (25)	10 (254)	50
SRW010-150A010A00-UR	SRW010-150B010A00-UR	1 (25)	15 (381)	75
SRW010-300A010A00-UR	SRW010-300B010A00-UR	1 (25)	30 (762)	150
SRW010-400A010A00-UR	SRW010-400B010A00-UR	1 (25)	40 (1016)	200
SRW020-050A010A00-UR	SRW020-050B010A00-UR	2 (51)	5 (127)	50
SRW020-100A010A00-UR	SRW020-100B010A00-UR	2 (51)	10 (254)	100
SRW020-250A010A00-UR	SRW020-250C010A00-UR	2 (51)	20 (508)	250
SRW020-300A010A00-UR	SRW020-300F010A00-UR	2 (51)	30 (762)	300
SRW030-100A010A00-UR	SRW030-100B010A00-UR	3 (76)	10 (254)	150
SRW030-150A010A00-UR	SRW030-150B010A00-UR	3 (76)	15 (381)	225
SRW030-200A010A00-UR	SRW030-200B010A00-UR	3 (76)	20 (508)	300
SRW040-100A010A00-UR	SRW040-100B010A00-UR	4 (102)	10 (254)	200
SRW040-200A010A00-UR	SRW040-200B010A00-UR	4 (102)	20 (508)	400
SRW040-250A010A00-UR	SRW040-250E010A00-UR	4 (102)	25 (635)	500
SRW050-100A010A00-UR	SRW050-100B010A00-UR	5 (127)	10 (254)	250
SRW050-250A010A00-UR	SRW050-250C010A00-UR	5 (127)	25 (635)	625
SRW050-300A010A00-UR	SRW050-300E010A00-UR	5 (127)	30 (762)	750
SRW060-100A010A00-UR	SRW060-100B010A00-UR	6 (152)	10 (254)	300
SRW060-150A010A00-UR	SRW060-150B010A00-UR	6 (152)	15 (381)	450
SRW060-200A010A00-UR	SRW060-200B010A00-UR	6 (152)	20 (508)	600

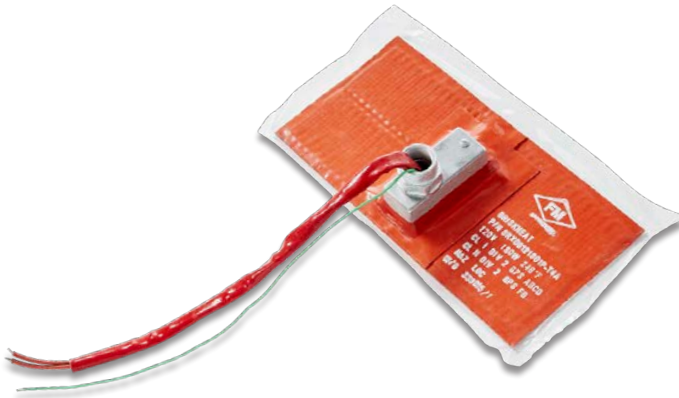
*Other sizes, watts, and voltages available upon request.



CUSTOMIZE YOUR BLANKET

- Built-in thermostats, sensors, or high limits
- Closed-cell silicone sponge insulation in 1/8, 3/16, 1/4, 3/8, or 1/2 inch thicknesses for applications up to 450°F (232°C)
- Cut profiles, holes, and cutouts
- Attachment options such as PSA, hook & lace, hook & loop, and snaps
- Watt densities up to 20 w/in² (3.1 w/cm²)
- Custom lead lengths and plug types

SRX HAZARDOUS-AREA SILICONE RUBBER HEATING BLANKETS



(Zone 2/22)

FEATURES & BENEFITS

- Helps maintain critical process temperatures in cold conditions and hazardous areas to prevent freezing-related disruptions
- High-limit thermostat designed to keep blanket below NEC Article 500 T-Rating
- Easy-to-apply, industrial-strength pressure-sensitive adhesive backing option
- Exceptional durability and suitable for a large range of metal surfaces like tanks, hoppers, conveyors, silos, etc.

SPECIFICATIONS

Power Density: 2.50 watts/in² (0.39 watts/cm²)

Voltage: 120 or 240 VAC, 12 or 24 VDC

NOTE: Temperature controller is required for this product, plug not included

ORDERING INFORMATION

Standard Sizes & Wattage

Width in (mm)	Length in (mm)	Total Watts
6 (152)	12 (305)	180
6 (152)	24 (610)	360
12 (305)	12 (305)	360
12 (305)	24 (610)	720
24 (610)	24 (610)	1440

PART NUMBER MATRIX

Example: **SRX2448180APT4A**

Product Series	Width	Length	Wattage	Voltage	Pressure Sensitive Adhesive	T-Rating
SRX - (FM) (1.25 W/ in ²)	(inches)	(inches)	180	1 - (120 VAC) 2 - (240 VAC) A - (24 VDC) B - (12 VDC)	P (w PSA) Blank (w/o PSA)	T3 (T3) T4A (T4A)

TSREH ENCLOSURE HEATERS



FEATURES & BENEFITS

- Ambient-sensing thermostat for most models
- Prevents condensation or freezing of electronics located within enclosures and control panels
- Heater vulcanized to an aluminum mounting plate for easy installation

SPECIFICATIONS

Voltage: 120 or 240 VAC (other voltages available upon request)

Maximum Exposure Temperature: -70°F to 392°F (-57°C to 200°C)

ORDERING INFORMATION

Part No. 120 VAC	Part No. 240 VAC	Width* in (mm)	Length in (mm)	Mounting Holes Center in (mm)	Total Watts	Thermostat	
						Opens °F (°C)	Closes °F (°C)
TSREH600	TSREH2600	2.5 (64)	6 (152)	4 (102)	60	w/o thermostat	
TSREH640	TSREH2640	2.5 (64)	6 (152)	4 (102)	60	60 (15)	40 (4)
TSREH6110	—	2.5 (64)	6 (152)	4 (102)	60	140 (60)	110 (43)
TSREH1200	TSREH21200	2.5 (64)	12 (305)	9 (229)	120	w/o thermostat	
TSREH1240	TSREH21240	2.5 (64)	12 (305)	9 (229)	120	60 (15°)	40 (4)
TSREH12110	—	2.5 (64)	12 (305)	9 (229)	120	140 (60°)	110 (43)

*Dimension is for heater and bracket. Actual heat width is 2 in (51 mm).

A grayscale photograph of industrial equipment, including pipes and valves, wrapped in white silicone heating tapes. The tapes are applied in a spiral pattern around the pipes and valves. Several valves have black handles and are labeled with small white tags: 'S5', 'A1', 'V19', 'V4', and '3'. The background is a light, textured surface.

HEATING TAPES

Silicone heating tapes are essential for precise, localized freeze protection, particularly for pipes, valves, and irregularly shaped components. Their flexibility, moisture resistance, and durability allow for direct application of heat in tight spaces or on complex geometries, ensuring vulnerable areas are protected from freezing and their operational integrity is maintained.

HSTAT/MSTAT XTREMEFLEX® SILICONE RUBBER HEATING TAPES



HSTAT/MSTAT
with controller

FEATURES & BENEFITS

- Helps maintain critical process temperatures in cold conditions and hazardous areas to prevent freezing-related disruptions
- Adjustable thermostat control with choice of two temperature ranges: Up to 160°F and 425°F (71°C and 218°C)
- Can wrap around and heat a wide range of objects, including valves, pipes, bearings, pumps, gas tubing, filter housings, actuators, and more

ORDERING INFORMATION

Part No. 120 VAC	Part No. 240 VAC	Width in (mm)	Length ft (m)	Total Watts	Temperature Range
HSTAT101006	HSTAT102006	1.0 (25)	6 (1.8)	432	Up to 425°F (218°C)
HSTAT101010	HSTAT102010	1.0 (25)	10 (3.1)	720	
HSTAT201006	HSTAT202006	2.0 (51)	6 (1.8)	864	
HSTAT201010	HSTAT202010	2.0 (51)	10 (3.1)	1440	
HSTAT301006	HSTAT302006	3.0 (76)	6 (1.8)	1296	Up to 160°F (71°C)
HSTAT301010	HSTAT302010	3.0 (76)	10 (3.1)	1800	
MSTAT101006	MSTAT102006	1.0 (25)	6 (1.8)	432	
MSTAT101010	MSTAT102010	1.0 (25)	10 (3.0)	720	
MSTAT101015	MSTAT102015	1.0 (25)	15 (4.5)	1080	Up to 160°F (71°C)
MSTAT101030**	MSTAT102030*	1.0 (25)	30 (9.1)	1440	
MSTAT101050**	MSTAT102050*	1.0 (25)	50 (15.2)	1440	Up to 425°F (218°C)
HSTAT101006G*	HSTAT102006G	1.0 (25)	6 (1.8)	432	
HSTAT101010G*	HSTAT102010G	1.0 (25)	10 (3.1)	720	

*Grounded **Reduced Watt Density | Other widths and lengths available upon request.

RKP XTREMEFLEX® SILICONE RUBBER HEATING TAPES



RKP with
thermostat

FEATURES & BENEFITS

- Extremely flexible heating tape with preset thermostat: 70°F or 122°F (21°C or 50°C)
- Ideal for emergency de-icing situations
- Moisture and chemical resistant — IP66

SPECIFICATIONS

Power Density: 1.0 watts/in² (0.2 watts/cm²)

Power Cord: 5 ft (1.5 m) long with

- **120 VAC:** Standard 2-prong plug (NEMA 1-15)

- **240 VAC:** Crimped ferrule leads

ORDERING INFORMATION

Thermostat Setting 70°F (21°C)		Thermostat Setting 122°F (50°C)		Width in (mm)	Length ft (m)	Watts
Part No. 120 VAC	Part No. 240 VAC	Part No. 120 VAC	Part No. 240 VAC			
RKP1A0072	RKP2A0072	RKP1B0072	RKP2B0072	0.5 (13)	6 (1.8)	50
RKP1A0096	RKP2A0096	RKP1B0096	RKP2B0096		8 (2.4)	55
RKP1A0120	RKP2A0120	RKP1B0120	RKP2B0120		10 (3.1)	60
RKP1A0240	RKP2A0240	RKP1B0240	RKP2B0240	0.5 (13)	20 (6.1)	120
RKP1A0480	RKP2A0480	RKP1B0480	RKP2B0480		40 (12.2)	240
RKP1A0600	RKP2A0600	RKP1B0600	RKP2B0600		50 (15.2)	300
RKP1A0720	RKP2A0720	RKP1B0720	RKP2B0720	0.5 (13)	60 (18.3)	360
RKP1A0900	RKP2A0900	RKP1B0900	RKP2B0900		75 (22.9)	450
RKP1A0960	RKP2A0960	RKP1B0960	RKP2B0960		80 (24.4)	480
RKP1A1200	RKP2A1200	RKP1B1200	RKP2B1200	0.5 (13)	100 (30.5)	600
RKP1A1500	RKP2A1500	RKP1B1500	RKP2B1500		125 (38.1)	750

BSO XTREMEFLEX® SILICONE RUBBER HEATING TAPES



ORDERING INFORMATION *BSO Series Non-Grounded*

Part No. 120 VAC	Part No. 240VAC	Width in (mm)	Length ft (m)	Total Watts
BS0051040L	BS0052040L**	0.5 (13)	4 (1.2)	104
BS0051080L	BS0052080L**	0.5 (13)	8 (2.4)	209
BS0051120L	BS0052120L**	0.5 (13)	12 (3.7)	313
BS0101040L	BS0102040L**	1.0 (25)	4 (1.2)	209
BS0101100L	BS0102100L**	1.0 (25)	10 (3.1)	522
BS0101160L	BS0102160L**	1.0 (25)	16 (4.9)	836
BS0101200L		1.0 (25)	20 (6.1)	1075
BS0201040L	BS0202040L*	2.0 (51)	4 (1.2)	418
BS0201100L	BS0202100L*	2.0 (51)	10 (3.1)	1045
BS0201200L*	BS0202200L*	2.0 (51)	20 (6.1)	2090

*Bare wire, plug not included, **Crimped ferrule leads

FEATURES & BENEFITS

- Maintains critical temperatures in cold conditions to safeguard equipment and materials from freezing
- Exceptional flexibility for a wide range of heating applications
- Moisture and chemical resistant — IP66
- Rapid thermal response
- Wide range of sizes to choose from

SPECIFICATIONS

Maximum Exposure Temperature: 450°F (232°C)

Power Density: 4.3 watts/in² (0.7 watts/cm²)

Power Leads: 2 ft (0.6 m) long with

- **120 VAC Non-grounded:** Separable 2-prong plug

- **240 VAC Non-grounded:** Crimped ferrules or bare wires

ORDERING OPTION: For a single power lead on opposite ends, remove "L" from end of part number.



Models with
crimped ferrule
or bare wire
leads



RKF/RKH XTREMEFLEX® SILICONE RUBBER HEATING TAPES



ORDERING INFORMATION *RKF Series Non-Grounded*

Part No. 120 VAC	Part No. 240 VAC	Product Series & Watt Density	Width in (mm)	Length ft (m)	Watts
RKF051200480	RKF052400480	RKF series		40 (12.2)	240
RKF051201200	RKF052401200	1.0 watts/in ² (0.2 watts/cm ²)	0.5 (13)	100 (30.5)	600
RKF051202400	RKF052402400			200 (70.0)	1200
RKH051200480	RKH052400480	RKH series		40 (12.2)	480
RKH051200720	RKH052400720	2.0 watts/in ² (0.4 watts/cm ²)	0.5 (13)	60 (18.3)	720
RKH051201200	RKH052401200			100 (30.5)	1200

FEATURES & BENEFITS

- Designed to deliver reliable freeze prevention for large surface areas in harsh, cold environments
- Exceptional flexibility and durability
- Long lengths up to 200 ft (61 m)
- Moisture and chemical resistant — IP66

SPECIFICATIONS

Power Cord: Standard 5 ft (1.5 m) power cord with

- **120 VAC:** 2-prong plug (NEMA 1-15P)

- **240 VAC:** Crimped ferrule leads



Models with
crimped ferrule
or bare wire
leads



A black and white photograph of a pressure gauge with a snow cap on top, set against a blurred background of snow and industrial structures. The gauge has a scale from 0 to 100 bar, with the needle pointing to approximately 55 bar. The word 'bar' is printed at the bottom of the gauge face.

ADDITIONAL SOLUTIONS

Beyond standard applications, a range of specialized heating and temperature maintenance solutions address unique freeze protection challenges. These solutions are vital for providing heat for enhancing equipment performance in cold conditions, and ensuring comprehensive protection for specific components. These items might otherwise be overlooked by general systems.

MICA BAND, NOZZLE, & STRIP HEATERS



MORE THAN 140 BAND AND NOZZLE HEATERS AVAILABLE!

SEE BRISKHEAT CATALOG 15 FOR STANDARD SIZES.

FEATURES & BENEFITS

- Engineered for reliable freeze prevention with efficient heat transfer on pipes and nozzles in industrial applications
- High-temperature galvanized sheath provides oxidation resistance and extreme durability
- Premium grade mica insulation offers excellent electrical isolation and corrosion resistance
- Stainless steel band barrel clamps maintain clamping pressure at elevated temperatures
- Low-profile designs are approximately 1/8 in (3 mm) thick
- High-watt density up to 40 watts/in² (6 watts/cm²) for high-performance heating
- Operating temperature 900°F (482°C) standard, or 1200°F (649°C) with stainless steel sheath

STRIP HEATER SPECIFICATIONS

Length: 2.5 in-48 in (64 mm-1219 mm)

Width: 0.75 in (19 mm) minimum

Voltage: Up to 480 VAC, dual 120/240 or 240/480, single or 3-phase

STANDARD BAND HEATER SPECIFICATIONS

Diameter: 1.5- 12 in (35-305 mm)⁺

Width: 1-12 in (25-305 mm)⁺

Voltage: Up to 480 VAC, dual 120/240 or 240/480; single or 3-phase

STANDARD NOZZLE HEATER SPECIFICATIONS

Diameter: 1-3 in (25-76 mm)

Width: 1-6 in (25-152 mm)

Voltage: Up to 480 VAC

CUSTOMIZE YOUR MICA HEATER

Clamping Options: Weld-on barrel nut, heavy-duty barrel nut, spring-loaded barrel nut, full strap, wedge, flange

Lead Wire Protection: Stainless steel braid or flexible conduit, spring guard, right-angle cap, strain relief

Terminal Options: Ground post, ceramic terminal cover, button terminals, terminal box

Other Options: Europlug, temperature sensor, two-piece design, hinged custom holes and slots

**Not all options are available in all sizes.*

+Consult BriskHeat for maximum dimensions.



HOTBELT™ WRAPAROUND REFRIGERANT JUG WARMER



FEATURES & BENEFITS

- Designed to preheat and keep refrigerant jug cylinders warm, preventing freezing to ensure consistent flow and reliable HVACR system performance in cold weather
- Adjustable design with hook & loop strap fits common size cylinders: 30 lb, 50 lb, and 125 lb (13 kg, 23 kg, and 57 kg)
- Designed to heat the tank surface to 120°F (49°C)
- Moisture and chemical resistant — IP56
- Easy-to-use with simple plug-and-play design

SPECIFICATIONS

Heater Width: 6 in (152 mm)

Length: 26 in (660 mm)

Thermostat: Preset to 158°F (70°C) and the heater is designed to heat the surface of the tank to 120°F (49°C)

Exposure Temperature: -60°F to 450°F (-51°C to 232°C)

Power Density: 1.4 watts/in² (0.2 watts/cm²)

Closure Method: Adjustable strap

Cylinder Diameter Range: Minimum 9 in (229 mm)

**Variations in ambient temperature and material contents within the cylinder may affect actual surface temperature of the cylinder.*

ORDERING INFORMATION

Part No.	Voltage VAC	Plug Type	Total Watts
HB1001	120	NEMA 5-15P	200

SURESTART COMPRESSOR SOFT STARTERS



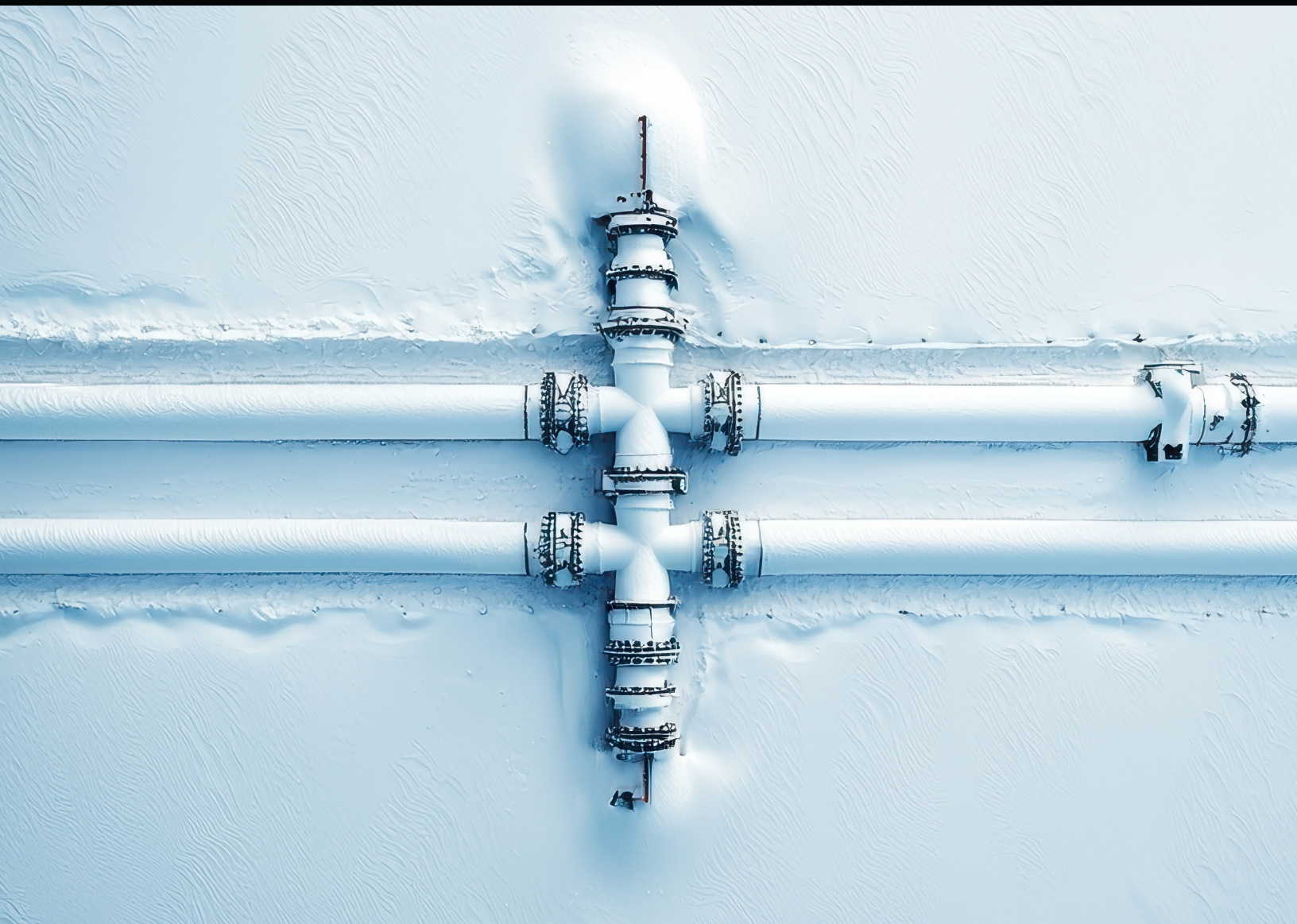
FEATURES & BENEFITS

- Helps prevent freeze-related compressor damage by enabling smooth, controlled starts that reduce mechanical stress.
- Reduces inrush start current by up to 70%
- Automatically optimizes the starting current without a user interface
- Voltages from 110-460 VAC, single and 3-phase
- Reduces required size of back-up generators or solar power systems
- Extends equipment life by reducing torque by up to 70%



ORDERING INFORMATION

Part No.	Nominal Voltage Rating VAC	Phase	Frequency Hz ±3%	Max Load Amps	Max Starting Amps	Motor Current max FLA Range	Motor Size hp	Min Startup Voltage	Max High Voltage	Shutdown on Low Voltage
SS0C04-20RW	115 - 120	Single	60	20	120	4 - 20 A	—	103	130	98
SS0B12-20SN	110-115	Single	60	20	35	12-20 A	0.75-1.5	103	126	98
SS1B08-16SN	208-230		50/60	16	35	8-16 A	1.75-3.5	180	253	175
SS1B16-32SN	208-230		50/60	32	65	16-32 A	3.5-7	180	253	175
SS2A04-28SN	208-230	Three	50/60	38	150	4-28 A	2-10	187	253	176
SS3A04-27SN	380		50/60	38	150	4-27 A	2-15	342	422	323
SS4A04-34SN	415		50	38	150	4-34 A	2-20	373	460	353
SS5A04-27SN	460		60	38	150	4-27 A	2-20	414	510	391



WE CAN HELP YOU ANY TIME, ANY WHERE

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