

NPH

National Plastic Heater

Call Toll Free 1.877.674.9744

Water and Air Line Frozen Pipe Prevention

The easiest way to keep your water and air lines from freezing is through the combination of self-regulating heating cable and insulation. Self-regulating cable can be overlapped and insulated safely without the threat of burning out. Insulation adds to efficiency and prevents unnecessary heat loss. For extra safety and efficiency, use a surface sensor thermostat (included in installation pak). This ensures that your heater is only running when necessary. Choosing the right cable and insulation is easy.



Step 1: Choose the right size/type of heating cable

First, measure the length of your pipe line. This will determine the amount of self-regulating heating cable needed. Second, measure the diameter of the pipe. If the pipe has a 1" or less diameter, the 3-watt per foot cable is the ideal choice. For a greater than 1" but not more than 4" diameter pipe, we recommend using the 5-watt per foot cable. These recommendations are based on the assumption that ambient temperature will not drop below -10°F (-17.7°C) and that the proper amount of insulation will be provided. Think you have a more extreme situation or unsure of your recommendation? Call us for a FREE heat-loss analysis.

1" Diameter Pipe or Less

Watts	Volts	Part Number
3	120	SL-CAB-3-120-B
3	240	SL-CAB-3-240-B

Please add a \$30.00 cutting charge for spools under 100ft.
All prices are per foot.

Greater than 1" but Not Greater than 4" Diameter Pipe

Watts	Volts	Part Number
5	120	SL-CAB-5-120-B
5	240	SL-CAB-5-240-B

Please add a \$30.00 cutting charge for spools under 100ft.
All prices are per foot.

See next page for Step 2: Choose the Right Insulation

Step 2: Choose the right insulation

Insulation is based on the diameter of your pipe and the ambient conditions such as temperature and wind. For this particular application, we recommend 1/2" thick insulation if your diameter is 1" or less. If your diameter is greater than 1" but not more than 4", use a 1" thick insulation. We recommend using self-seal polyethylene insulation.



Our self-seal polyethylene insulation comes in 6 ft lengths. Insulation comes pre-slit for easy fit over pipe. The slit can then be closed with the self-seal adhesive included. Use contact adhesive (see page 8) to connect the ends of the insulation. For elbows and angles, simply cut the slit for a snug fit. It is recommended that installation be done when the ambient temperature is between 40°F (4°C) - 100°F (37.7°C).

1" Diameter Pipe or Less (1/2" thick insulation)

Nominal Pipe Diameter	Part Number
1/2"	SSPI-050-0050
3/4"	SSPI-050-0075
1"	SSPI-050-0100

Greater than 1" but Not Greater than 4" Diameter Pipe (1 inch thick insulation)

Nominal Pipe Diameter	Part Number
1 1/4"	SSPI-100-0125
1 1/2"	SSPI-100-0150
2"	SSPI-100-0200
2 1/2"	SSPI-100-0250
3"	SSPI-100-0300
4"	SSPI-100-0400

Insulation Facts

- Cost-effective, Flexible Thermal Insulation
- Handles a Temperature Range of -200°F (-128.9°C) to 200°F (93.3°C)
- Self-Seal Adhesive Slits for Easy Installation
- 1/2" or 1" Thickness
- Can be Used Outdoors

Don't Forget the Contact Adhesive!

Product	Part Number
1 Pint of Contact Adhesive with brush top	SSPI-ADHES-PB



Step 3: Installing your new water/air line frozen pipe prevention solution

Proper installation is essential for preventing frozen water lines. NPH Heater makes it easy with an installation pak that has everything you need for each 100ft run including the safeguard surface sensor thermostat.

Each pak includes

- 1 Universal Connection Kit
- 1 Pipe Stand-off Reducer
- 1 Junction Box-Double Hub
- 10 Ea-Caution Labels
- 1 Roll of High Temperature Fiberglass Adhesive Tape
- 1 Surface Sensing Thermostat set at 45°F (7.2°C)

Part Number
SLACC-OPAK

Step 4: Sit back and enjoy a warm cup of hot cocoa

Now you can go through this cold season not having to worry about frozen water or air lines. Just one more way that NPH Heater makes your life easier.



National Plastic Heater Sensor & Control Co.

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