National Plastic Heater

Call Toll Free 1.877.674.9744

Prevent Freezing of Condensate Return Lines During Downtime

When a boiler and steam system is running fine, it is hard to think about heating condensate return lines. But in the winter during boiler downtime, a frozen condensate line is a real possibility. Prevent the risk by using mid-temperature self-regulating heating cable with insulation.

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

First, measure the length of your condensate return line. This will determine the amount of mid-temperature self-regulating heating cable needed. Second, measure the diameter of the pipe. If the pipe is up to 4" diameter, we recommend 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 application? Call us for a FREE heat-loss analysis.

Up to 4" Diameter

Watts	Volts	Part Number
5	120	SLMCAB5120B
5	240	SLMCAB5240B

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

Have over a 4" inch diameter pipe? Call us for your FREE heat loss analysis!

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 condensate return line during downtime solution

Proper installation is essential for keeping your condensate lines running during downtime. 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

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