SELF-REGULATING HEATING CABLES

Electric ArcticVent systems employ the unique performance and operating characteristics of advanced self-regulating heating cable technology. The heating cable is built around a conductive polymer core, which automatically adjusts its heat output to match heat loss at every point throughout the system length. As the temperature increases, Heat-Line products automatically decrease their heat output, and vice versa. The result is energy savings.

To further increase the energy efficiency, a thermostat or timer can be added to the system. The addition of a thermostat would allow you to duty cycle your ArcticVent system based on ambient air temperature, while a timer would duty cycle the ArcticVent on and off based on desired presets.

ARCTICVENT AT A GLANCE

- ArcticVent is the only approved freeze protected plumbing vent
- Proven throughout circumpolar regions
- Reliable and energy efficient
- 5 year warranty with optional 10 year
- ArcticVent can be easily adapted to pipes of various sizes
- Fast Installation — ArcticVent comes ready to use with a 3 inch polycarbonate slip coupling and 2 part epoxy cement
- Products and components meet plumbing, electrical and mechanical regulatory requirements
- Constructed of LEXAN® for high strength in severe cold

SPECIAL REQUIREMENTS

Since 1988 Heat-Line® has been specializing in freeze protection of all types. If you have a special application of any kind, give us a call. Special system designs are common to us. We manufacture many other innovative products not mentioned in this brochure.
### ABOUT ARCTICVENT

ArcticVent is designed for new installations or to replace and retro-fit existing non-protected (standard) 3 inch plumbing vent stacks. When reduction fittings are employed, ArcticVent can be used on top of 4 inch and 6 inch vent stacks where they exit the roof. ArcticVent melts ice from the inside of the vent. A longitudinal tether centered within the pipe holds the ice and prevents damage or mechanical injury from falling ice as it melts and is released.

**Application examples include but are not limited to:**
- Residential buildings
- Commercial/industrial buildings
- Modular homes and northern research laboratories
- Temporary mining and exploration camps
- Construction trailers
- High arctic housing communities

### CONSTRUCTION & OPERATION

#### Electrical

The electrically heated vent applies an average of 25 watts of heat per foot of pipe @ 50°F (10°C) using self-regulating heating cables by Heat-Line. This provides maximum heat when required and is highly energy efficient.

#### Hydronic

The hydronic system cycles heated fluid through the vent via small 1/4 inch copper capillaries. This model can be interfaced to hydronic heating systems using a closed loop circulating pump and heat exchanger system.

### PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Plumbing</th>
<th>3 inch (internal diameter) heated LEXAN® fire rated vent pipe</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>35 3/8 inch total product length</td>
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<tr>
<td></td>
<td>3 inch polycarbonate slip-fit coupling (two part epoxy cement included)</td>
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<tr>
<td>Electrical</td>
<td>120 or 240 volt, 75W @ 50°F (10°C) self-regulating heating cable</td>
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<tr>
<td></td>
<td>Enclosure Type 3R</td>
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<tr>
<td>GFC models</td>
<td>27 milliamp ground fault circuit interrupter plug-in device</td>
</tr>
<tr>
<td>CS models</td>
<td>14 AWG SJEOOW supply cord for direct hard wire connection, GFCI must be field installed</td>
</tr>
<tr>
<td>Hydronic</td>
<td>1/2 inch brass male NPT interface fittings supplied</td>
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### INSTALLATION

ArcticVent is designed to be easily installed in new applications as the vent interfaces to standard pipes with the use of two part epoxy. When retro-fitting ArcticVent, the existing 3 inch stack is cut at the required level within the building. ArcticVent has been designed to couple with existing 3 inch ABS or PVC pipe using two part epoxy. A skilled tradesperson must review the individual installation requirements when retro-fitting to determine the best transition point within the warm area of the building.

ArcticVent GFC systems simply plug into a 120 volt or 240 volt receptacle. The CS models will require Ground Fault Circuit protection (not included) and field wiring.

ArcticVent is designed for installation by a professional licensed tradesperson.

For complete installation instruction and specification refer to ArcticVent Installation Guide.

For technical support contact Heat-Line® for an application specialist.

This product must be installed in accordance with governing electrical, plumbing and building authorities.