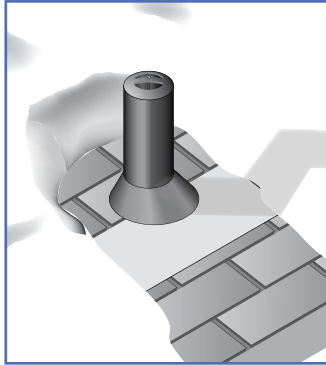


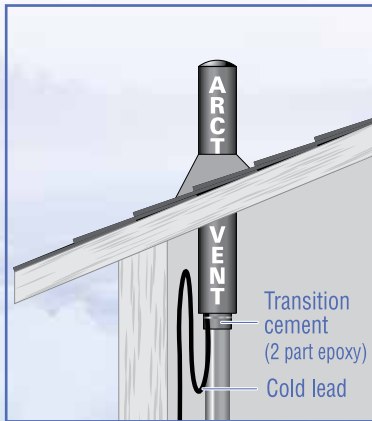
## INSTALLATION

**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.

## THE HEAT-LINE® PRODUCT GROUP

**Heat-Line®**

**Retro-Line®**

**Paladin®**

**CARAPACE®**

**ArcticVent®**

**Kompensator®**

**EDGE-CUTTER®**

**EXT Series**

**Commercial/Industrial  
self-regulating heating cables**

## 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.

**ArcticVent®** is a registered trademark of Heat-Line® Corporation.

Patent Pending

For more information contact



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# ArcticVent®

by Heat-Line®

**ArcticVent®** is a freeze protected plumbing vent stack for use in cold climates to prevent freezing and subsequent ventilation blockage. Extreme and prolonged arctic cold causes plumbing vents to ice up and form a blockage as warm moist air rises, condenses and freezes. When this blockage occurs, sewer gases leak into the dwelling presenting pungent odours along with possible serious health issues. **ArcticVent®** eliminates ice blockage in plumbing vents where they exit the roof of a building.



## APPLICATION

**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.

## FEATURES & BENEFITS

- **ArcticVent®** is the only approved freeze protected plumbing vent
- Proven throughout circumpolar regions
- Reliable and energy efficient
- 5 Year Limited Warranty
- **ArcticVent®** simply plugs into a receptacle\*
- Multiple **ArcticVent®**s can be used on one circuit
- **ArcticVent®** can be easily adapted to pipes of various sizes (Additional support may be required)
- Fast Installation — **ArcticVent®** comes ready to use with a 3 inch polycarbonate slip coupling and 2 part epoxy cement
- A GFEPD (ground fault equipment protection device) is integral to the system\*\*
- Products and components meet plumbing, electrical and mechanical regulatory requirements
- Constructed of LEXAN® for high strength in severe cold

\* For AV 120 and AV 240 GFC models only.

\*\* The AV 120 and AV 240 CS models are cord connected and require ground fault circuit protection (not included).

## 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 small circulating pump and a heat exchanger or plate exchanger.



## SELF-REGULATING HEATING CABLES

The development of **ArcticVent®** systems by Heat-Line® required the most advanced and reliable heating cable technology in the world to ensure high performance and reliability. The self-regulating heating cable is built around a conductive polymer core, which automatically adjusts, increasing or decreasing heat output to match heat loss at each point throughout the **ArcticVent®**. This technology applied to **ArcticVent®** compensates for cold ambient temperatures as it gently applies heat to the inside of the pipe, preventing freezing. Where conditions dictate, **ArcticVent®** can be turned off until required. When ice blockage occurs, **ArcticVent®** can be energized and over a period of time will clear the blockage. (Ambient temperature and ice thickness within the vent determine time required for full clearance).

For the plug in version (GFC) a 120 Volt or 240 Volt receptacle is all that is required for the operation of **ArcticVent®**. GFEPD (ground fault equipment protection device) is integral to the system. This device is designed to shut the system down should the electrical components become damaged. The device has test and reset buttons along with a pilot light to indicate the system is ON and functioning properly. This device does not require resetting, even after a power failure. The cord set version (CS) comes complete with a 6 foot cold lead for electrical connection to a ground fault protected circuit.



## PRODUCT SPECIFICATIONS

- |                   |   |
|-------------------|---|
| <b>Plumbing</b>   | 3 inch (internal diameter) heated LEXAN® fire rated vent pipe and heated yoke - 35 3/8 inch total product length<br><br>3 inch polycarbonate slip-fit coupling (two part epoxy cement included) |
| <b>Electrical</b> | 120 or 240 volt , 75W @ 50°F (10°C) self-regulating heating cable<br><br>Enclosure Type 3R<br><br>Integral 27 milliamp GFEPD (ground fault equipment protection device)*                        |
| <b>Hydronic</b>   | 1/2 inch brass male NPT interface fittings supplied   |