

SELF-REGULATING HEATING CABLES

Electric ArcticVent systems leverage the exceptional performance of Heat-Line advanced self-regulating heating cable technology. Self-regulating heating cables effectively increase heat and energy output to sections along its length that are cold and simultaneously reduces heat and energy output to sections that are warm. Heat-Line self-regulating heating cables are remarkably energy efficient and will never overheat, making them an ideal plumbing vent stack freeze protection solution.

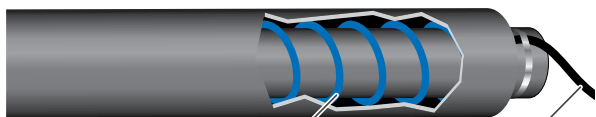
To further enhance energy efficiency, a thermostat control can be added to the system. This allows you to duty cycle your ArcticVent system based on ambient outdoor air temperatures.



SPECIFICATIONS

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

Electric Model



Self-regulating heating cable

Power supply

ArcticVent® AT A GLANCE

- The only approved freeze protected plumbing vent
- Proven throughout circumpolar regions
- Reliable freeze protection without overheating
- Energy efficient, rated at only 75 Watts
- Eliminates need for winter roof access for ice removal
- 5 year warranty with optional 10 year extended
- Can be easily adapted to pipes of various sizes
- Ready to install 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
- CSA certified for North America

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.



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HLAV-0724-4



ArcticVent®

Freeze Protected Plumbing Vent Stack That Eliminates Ice Blockage in Plumbing Vents



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
- High arctic housing communities
- Construction trailers

CONSTRUCTION AND 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.

INSTALLATION

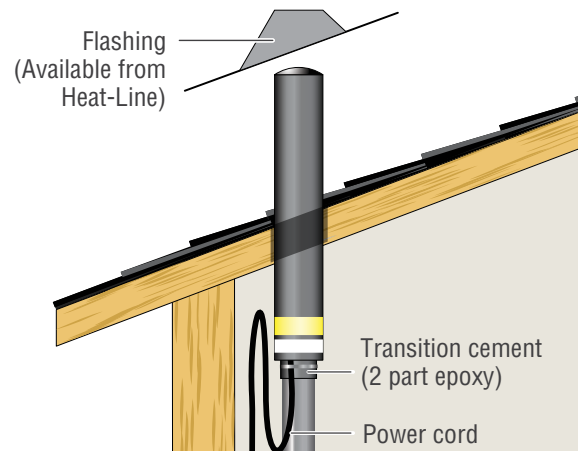
ArcticVent is designed to be easily installed in new applications as the vent interfaces to standard 3-inch pipes with the use of two part epoxy.

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 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.

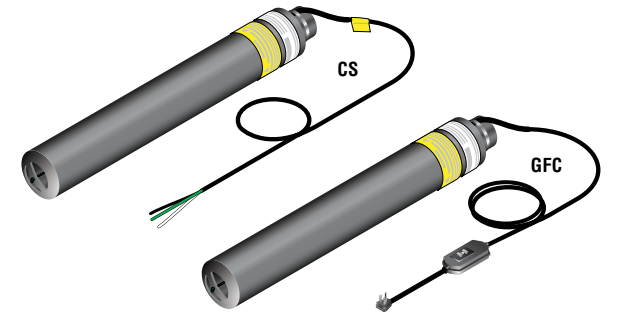
This product must be installed in accordance with governing electrical, plumbing and building authorities.



ORDERING GUIDE ELECTRIC

Example: **AV120 - 03 - CS**

Product	AV ArcticVent
Voltage	120 120 V ArcticVent 240 240 V ArcticVent
Length of System	3 3 ft long ArcticVent
Cord-Set Type	GFC Ground fault protected 5-15 P 120 V / 6-15 P 240 V CS Cord connected (no GFCI)



ORDERING GUIDE HYDRONIC

Example: **AV - HYDR - 03**

Product	AV ArcticVent
Hydronic	
Length of System	3 3 ft long ArcticVent

