



ArcticVent®

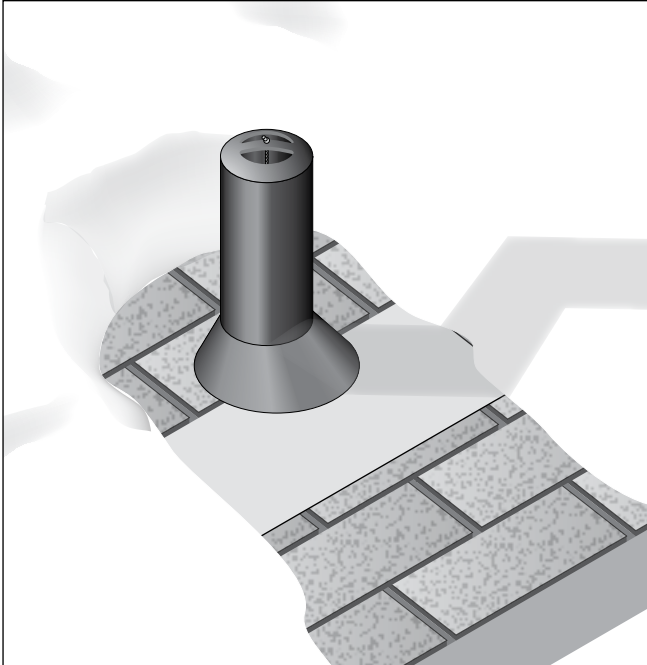
Installation Instructions for Electric Units

AV120-03CS

AV240-03CS

AV120-03GFC

AV240-03GFC



Description

ArcticVent is designed for installation by professional licensed tradespersons. ArcticVent must only be used when protected by the Ground Fault Circuit protection (GFC) included in the cord-set of GFC models and with approved Ground Fault Devices when protected at the electrical panel. These products must be installed and wired in accordance with the National Electrical Code (NEC) in the USA and the Canadian Electrical Code (CEC) in Canada.

- Never bypass the Ground Fault Protection.
- Never cut, drill or alter this product in any manner.
- ALWAYS test the system ground fault device before seasonal start-up and monthly while in use.

ArcticVent GFC systems simply plug in. The CS models will require Ground Fault Circuit protection (not included) and field wiring.

Proper completion of this installation will require the expertise of plumbing/mechanical and electrical trades. This is a professional product designed to be installed by licensed tradespersons and must be inspected by the proper electrical and mechanical authorities following completion of the finished installation.

For technical support call Heat-Line a Division of Christopher MacLean Ltd. at (800) 584-4944.

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

CAUTION! Failure to properly install and test this product while in use may be hazardous and may result in property damage or loss of life.

Approvals



Enclosure Type 3R

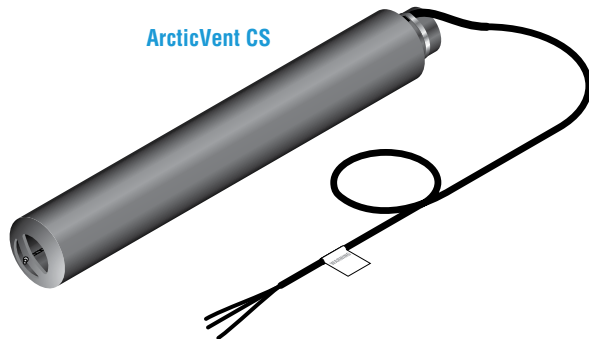
Kit Contents

Qty	Description
1	ArcticVent CS or ArcticVent GFC

ArcticVent GFC



ArcticVent CS



WARNING:

This component is an electrical device that must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all of the installation instructions.

- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of Heat-Line a Division of Christopher

MacLean Ltd., agency certifications, the National Electrical Code and Canadian Electrical Code, ground-fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.

- Component approvals and performance are based on the use of Heat-Line a Division of Christopher MacLean Ltd. specified parts only. Do not use substitute parts or vinyl electrical tape.

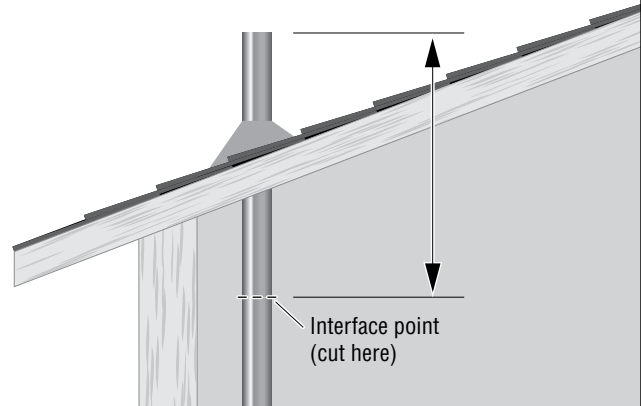
- This is a professional product designed to be installed by licensed tradespersons and must be inspected by the proper electrical and mechanical authorities following completion of the finished installation.

ArcticVent Installation Instructions

Plumbing / Mechanical Installation

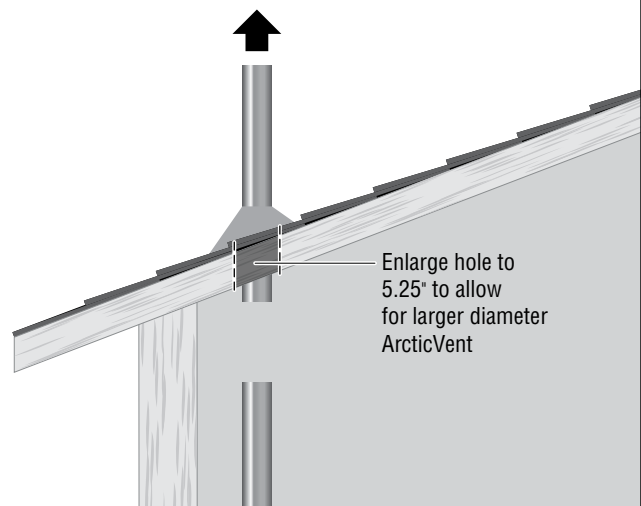
1 Retrofit Installations – (See page 3 for new installations)

- Carefully unpack the ArcticVent and inspect for any shipping damage.
- Determine the interface point of the 3-inch stack to the ArcticVent inside the dwelling.
- Use a pipe cutter or saw, cut the existing 3-inch diameter stack.



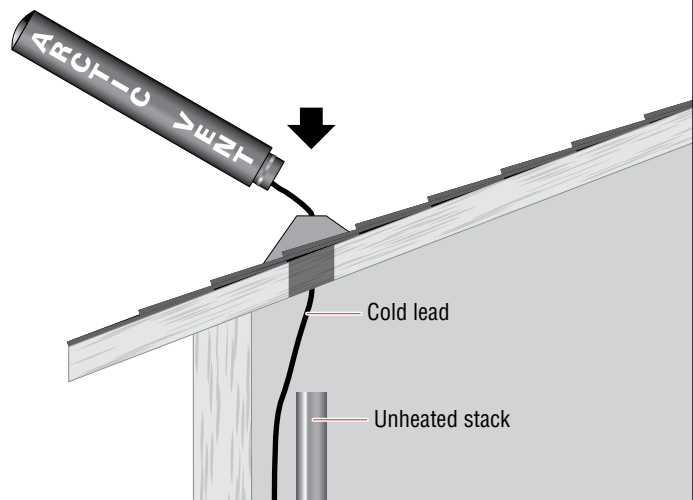
2

- Remove cut stack by pulling it up through the roof. Enlarge the hole in the roof (if necessary) to accommodate the larger diameter ArcticVent. Approximately 5.25 inches or as required.
- Common ABS fittings (not supplied) can be used to modify larger or smaller ABS vent pipes to 3-inch diameter.



3

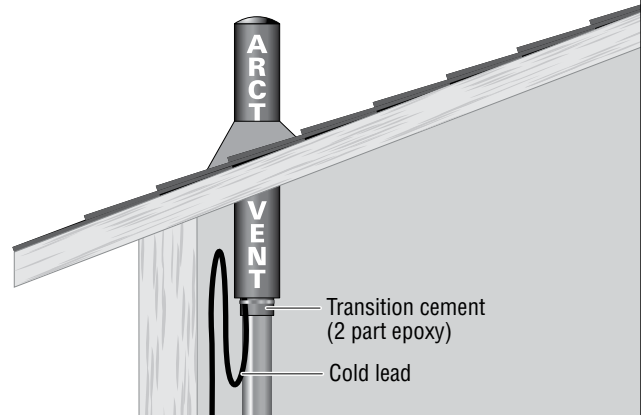
- Install the ArcticVent from the roof down (coupling down) and connect the ArcticVent bottom coupling to the unheated stack at the interface point using approved transition cement or 2-part epoxy.
- Be careful not to damage the cord-set when passing the vent through structures and while positioning it.
- The ArcticVent has a 5-inch outside diameter and the existing metal or neoprene flashing may require some alteration. Neoprene flashings are usually capable of accommodating the larger pipe diameter with little or no alteration but it may be very tight fitting. Non-toxic lubricants may be used to alleviate the friction while pushing ArcticVent through the Neoprene gasket.



ArcticVent Installation Instructions

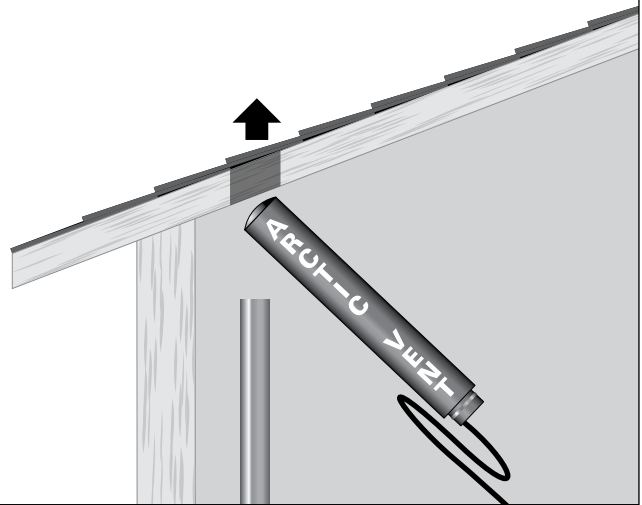
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- Install the ArcticVent from the roof down (coupling down).
- Connect the ArcticVent bottom coupling to the unheated stack at the interface point using approved transition cement or 2-part epoxy. Be careful not to damage the cord-set when passing the vent through structures and while positioning it.
- Support may be required (not supplied) to carry the added weight (9 lbs) of the ArcticVent. Use common approved construction practices to achieve this if necessary.



1 New Installations – (See page 2 for retrofitting)

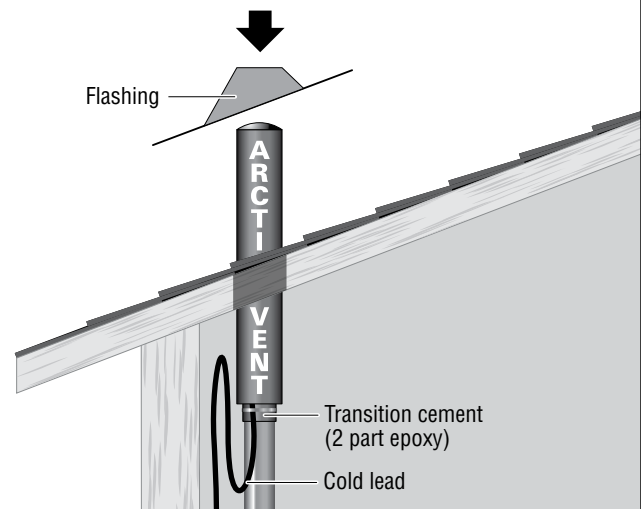
- On new installations the ArcticVent may be installed from below and pushed up through the roof and by using standard vent stack installation and flashing practices. Always be careful not to damage the electrical cord-set during installation movements and final fitting.



2

- If metal flashings or other types of flashings are used, be sure to weatherproof the ArcticVent around the flashing using standard and approved construction practices.
- Connect the ArcticVent bottom coupling to the unheated stack at the interface point using approved transition cement or 2-part epoxy. Be careful not to damage the cord-set when passing the vent through structures and while positioning it.
- Support may be required (not supplied) to carry the added weight (9 lbs) of the ArcticVent. Use common approved construction practices to achieve this if necessary.

The plumbing/mechanical portion of this installation is now complete.

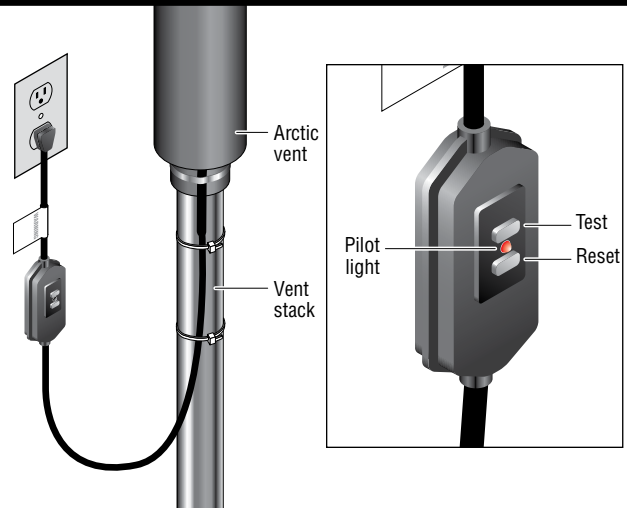


ArcticVent Installation Instructions

Electrical Installation and Testing

GFC Models

- A 15-amp 120-volt receptacle 5-15R (120 volt systems) or 240 volt receptacle 6-15R (240 volt systems) is all that is required for the power supply. When dealing with freeze protection a dedicated circuit is recommended whenever possible.
- Plug cord into an appropriate receptacle
- Push test and Re-set button
- Check for pilot light "on"
- When the pilot light is on your system is operational
- Test and Re-set monthly
- Push test button to shut system off or un-plug when not in use
- A single pole switch may be installed for easy on-off operation

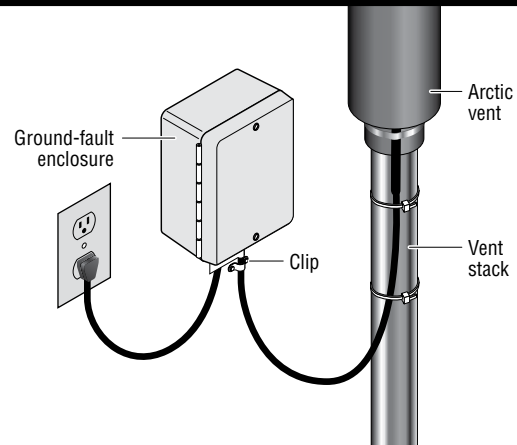


CS Models

- **GROUND FAULT PROTECTION MUST be used in the supply circuit**
- Wire the cord into an approved electrical enclosure with an approved fitting.
- Heat-Line's GF240 or 120 HLC products can be purchased for ground fault protection and are supplied with NEMA 3R enclosures.
- GF-STAT may also be purchased to provide ground fault protection and thermostatic on/off control, NEMA-4X rated.

SAFETY WARNINGS!

- **NEVER BYPASS THE GROUND FAULT CIRCUIT PROTECTION.**
- **DO NOT USE EXTENSION CORDS WITH THIS PRODUCT.**
- **NEVER CUT OR ALTER THIS PRODUCT IN ANY MANNER.**
- **IF THE GROUND FAULT DOES NOT RESET CALL AN ELECTRICIAN.**



DISCONNECT THE ARCTICVENT IN SUMMER MONTHS OR WHEN NOT REQUIRED.

The circuit supplying the ArcticVent may be controlled by an approved ambient sensing thermostat to activate the system automatically at the freezing point if desired.

The circuit supplying the ArcticVent may also be controlled with an approved single pole switch to conveniently disconnect power when not required.

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Heat-Line

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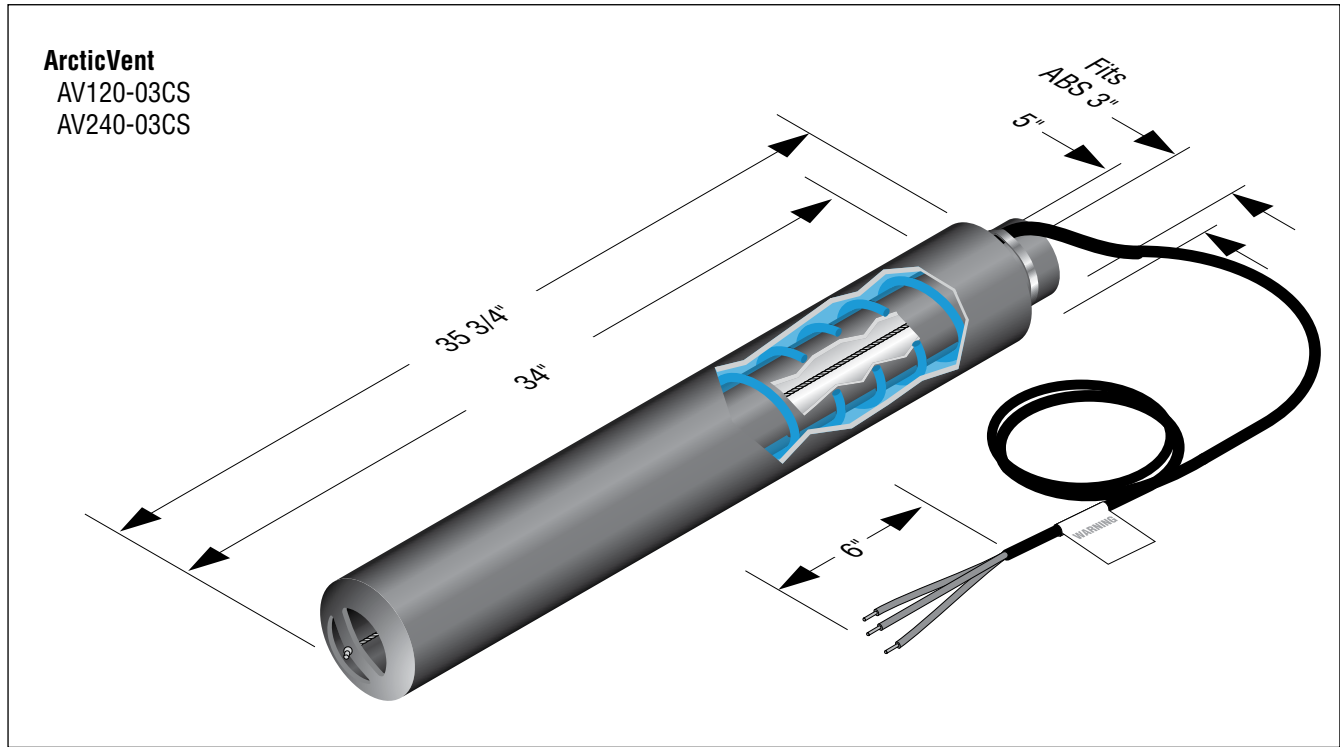
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ArcticVent® CS Specification



ArcticVent
AV120-03CS
AV240-03CS

120 Volt Specifications

Voltage: 120
Watts: 75 @ 50°F
Cord set: 36" cord with 6" tails
Interface adhesive: 2-part epoxy (not included)
GFCI: Not included (Circuit must be protected with ground fault equipment to CEC & NEC standards.)
Weight: 10 lbs

240 Volt Specifications

Voltage: 240
Watts: 75 @ 50°F
Cord set: 36" cord with 6" tails
Interface adhesive: 2-part epoxy (not included)
GFCI: Not included (Circuit must be protected with ground fault equipment to CEC & NEC standards.)
Weight: 10 lbs

Heating Element

5 watt per foot @ 50°F, self regulating

Approvals



Enclosure Type 3R

Tubes

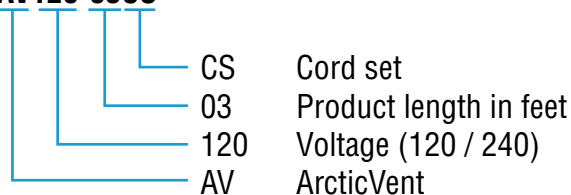
Outer: 5 inch
Inner: 3 inch
Material: Lexan
EXL9330 Resin
Impact Resistance: 11.0 ft lb/in @ -58°F
Flame Rating: UL - UL94
(.0590 in): V-0
(.118 in): 5VA

Suggested Coupling Adhesive

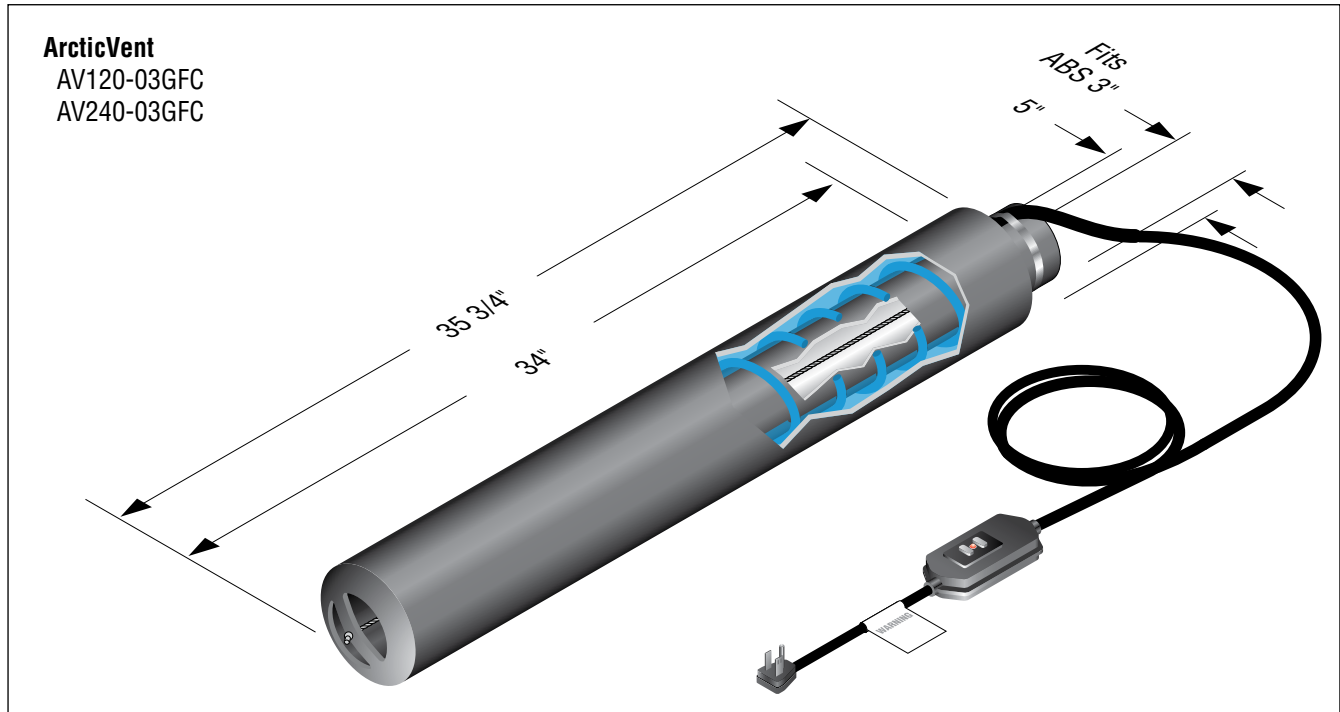
2-part epoxy or Loctite E-90FL (not included)

Part number configuration guide:

Example: AV120-03CS



ArcticVent® GFC Specification



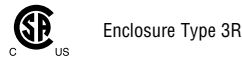
120 Volt Specifications

Voltage:	120
Watts:	75 @ 50°F
Cord cap:	5 -15
Cord set:	42"
Interface adhesive:	2-part epoxy (not included)
GFCI:	27 milliamp
Weight:	10 lbs

240 Volt Specifications

Voltage:	240
Watts:	75 @ 50°F
Cord cap:	6 -15
Cord set:	42"
Interface adhesive:	2-part epoxy (not included)
GFCI:	27 milliamp
Weight:	10 lbs

Approvals



Heating Element

5 watt per foot @ 50°F, self regulating

Tubes

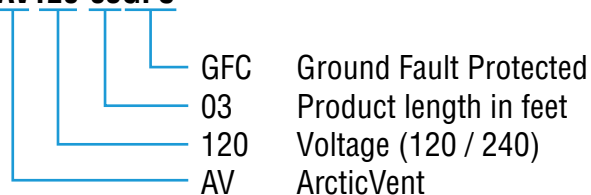
Outer:	5 inch
Inner:	3 inch
Material:	Lexan EXL9330 Resin
Impact Resistance:	11.0 ft lb/in @ -58°F
Flame Rating:	UL – UL94 (.0590 in): V-0 (.118 in): 5VA

Suggested Coupling Adhesive

2-part epoxy or Loctite E-90FL (not included)

Part number configuration guide:

Example: AV120-03GFC



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