Meet the SVA-CS:

Reliable Smoke Ventilation for Freezer and Cold Storage Facilities

When safety and performance are non-negotiable, you need a smoke vent engineered to meet the extreme demands of cold storage environments. That's where the **SVA-CS** from Acudor delivers. Designed with superior insulation, a fully thermally broken curb system, and precision-engineered components, the SVA-CS sets the standard for smoke venting solutions in refrigerated warehouses, food processing facilities, and freezer environments.

Why Cold Storage Smoke Vents Matter

In the event of a fire, rapid smoke ventilation is critical for life safety and fire damage mitigation. However, cold storage environments pose unique challenges—extreme temperature differentials, strict energy efficiency requirements, and insulated roofing systems demand a tailored solution.

The **SVA-CS** is built specifically for these conditions. Its design helps reduce thermal transfer while ensuring reliable automatic smoke release when temperatures rise.

Key Features of the SVA-CS:

- **R-39 Thermally Broken Design**

Engineered with 6 inches of polyiso insulation and a fully thermally broken curb, the SVA-CS minimizes energy loss, keeping cold air in and warm air out—perfect for refrigerated facilities where temperature control is mission-critical.

- **UL-Listed Fusible Links**

Available in multiple temperature ratings (165°F to 520°F), fusible links activate to automatically release the vent in the event of a fire.

- **Rugged Aluminum or Galvanized Construction**

Choose from durable 0.125" aluminum or 14-gauge galvanized steel construction for dependable performance in any application.

- **High-Performance Gas Springs**

Low spring rate nitrogen gas springs allow smooth, reliable lid operation—even when opening against a 10 PSF snow load.

- **Superior Gasket Sealing**

Two rows of EPDM bulb gasket provide a tight, weather-resistant seal around the entire perimeter to prevent air leakage and thermal bridging.

- **Customizable to Fit Any Roof Type**

SVA-CS's base flanges can be tailored to fit insulated metal panel (IMP) roofing or conventional built-up systems.

Built to Perform in Harsh Environments

Every component of the **SVA-CS** is engineered with cold storage conditions in mind:

- **Reinforced Lid** – Withstands 40 PSF live load and 30 PSF uplift.
- **Adjustable Latches** – Withstand up to 90 PSF uplift, with options in zinc-plated or stainless steel.
- **Hold-Open Arms** – Secure lids in the open position for safety during maintenance or emergency access.
- **Optional Features** – Add McCabe® resettable electronic release links, powder coating, heat trace elements, fall protection screens, and more.

Available Sizes

The SVA-CS comes in a variety of standard sizes to accommodate different building layouts and air exchange requirements:

- 60" x 60"
- 60" x 72"
- 60" x 90"
- 60" x 96"

Need a custom size? Acudor can configure the SVA-CS to fit your project requirements.

Optimize Energy Performance While Enhancing Safety

Cold storage facilities demand both thermal efficiency and safety compliance. The SVA-CS is the solution that balances both, meeting energy performance goals without compromising on emergency smoke relief.

Whether you're designing a new cold storage facility or upgrading an existing one, the SVA-CS offers the durability, insulation, and fire safety performance your project needs.

Ready to specify?

Visit Acudor.com or contact our team today to request specifications, CAD drawings, or expert consultation.