

Big Smoky® Heat & Smoke Vent

Guide Specification

Milcor models: U-LP, U-LPA, or U-LPAG automatically operating heat and smoke vents are listed by Underwriters Laboratories, Inc. and Factory Mutual Research Corporation. Sizes are as indicated on page 13.

Frame

Welded 13-1/2" height, (16-gauge galvanized steel (U-LP and U-LPAG), or .090 aluminum (U-LPA) curb complete with 3-1/2" pre-drilled mounting flanges and same gauge counterflashing, and 1" thick exterior fiberboard insulation.

Covers

High-strength composite construction with exterior cover and liner 22-gauge galvanized steel (U-LP), or .063 aluminum (U-LPA and U-LPAG), bonded to a 2" core of rigid foam-type insulation complying with the requirements of Class "A" Burning brand test (UL-790) and providing a minimum thermal transmittance value of $U = 0.093$ to deter condensation and reduce heat loss.

Operation

- Covers automatically spring open to approximately 90 degrees in the event of fire, being actuated by the parting of a single UL-listed and FM approved 165°F fusible link, automatically locking in the fully open position.
- Covers are of double-leaf construction, with each leaf equipped with sufficient torsion spring operators to open against a 10 psf snow or wind load.
- Units are equipped with hydraulic shock absorbers to control cover opening speed and prevent over-travel.
- Covers will not open when subjected to a 30 psf uplift pressure.
- Vent design allows covers to be released manually from inside or outside without disturbing the fusible link assembly.
- Covers latch automatically and manual release mechanism resets automatically by closing covers.

NOTE:

1. 14-gauge frame and cover available on special order for all sizes and styles of Big Smoky® and Low Profile Units.
2. Call Milcor for information on other available options, such as painting, electro-thermal links, winches, other fusible link temperatures, metal roof applications, etc.

Low Profile Heat & Smoke Vent

Guide Specification

Milcor models: U-LP, U-LPA, or U-LPAG automatically operating heat and smoke vents are listed by Underwriters Laboratories, Inc. and Factory Mutual Research Corporation. Sizes are as indicated on page 13.

Frame

Welded 13-1/2" height, (16-gauge galvanized steel (U-LP and U-LPAG), or .090 aluminum (U-LPA) curb complete with 3-1/2" pre-drilled mounting flanges and same gauge counterflashing, and 1" thick exterior fiberboard insulation.

Covers

High-strength composite construction with exterior cover and liner 22-gauge galvanized steel (U-LP), or .063 aluminum (U-LPA and U-LPAG), bonded to a 1" core of rigid foam-type insulation complying with the requirements of Class "A" Burning brand test (UL-790) and providing a minimum thermal transmittance value of $U = 0.173$ to deter condensation and reduce heat loss.

Operation

- Covers automatically spring open to approximately 90 degrees in the event of fire, being actuated by the parting of a single UL-listed and FM approved 165°F fusible link, automatically locking in the fully open position.
- Covers are of double-leaf construction, with each leaf equipped with sufficient torsion spring operators to open against a 10 psf snow or wind load.
- Units are equipped with hydraulic shock absorbers to control cover opening speed and prevent over-travel.
- Covers will not open when subjected to a 30 psf uplift pressure.
- Vent design allows covers to be released manually from inside or outside without disturbing the fusible link assembly.
- Covers latch automatically and manual release mechanism resets automatically by closing covers.

STC-40 Acoustical Heat & Smoke Vent

Guide Specification

Milcor Acoustical ULP-STC-40 automatically operating heat and smoke vents carry a STC-40 acoustical rating and are listed by Factory Mutual Research Corporation. Sizes are as indicated on pages 14 and 15.

Frame

Welded 15-1/2" height, 14-gauge galvanized steel curb complete with 3-1/2" pre-drilled mounting flanges, same gauge counterflashing and 2" thick fiberglass acoustical insulation protected by a 22-gauge galvanized steel liner.

Covers

14-gauge galvanized exterior and 22-gauge galvanized interior liners divide acoustical insulation consisting of 2" fiberglass insulation, 1" dead air space and 2" rigid foam insulation with a 1/8" acoustical barrier. Acoustical gasket between cover and frame.

Operation

- Covers automatically spring open to approximately 90 degrees in the event of fire, actuated by the parting of a single UL-listed 165°F fusible link, and automatically lock fully open.
- Covers are of double-leaf construction, with each leaf equipped with sufficient torsion spring operators to open against a 10 psf snow or wind load.
- Units are equipped with hydraulic shock absorbers to control cover opening speed and prevent over-travel.
- Covers will not open when subjected to uplift pressure up to 30 psf.
- Vent design allows covers to be released manually from inside or outside without disturbing the fusible link assembly. Manual release available on standard units only. Eliminated on vents with optional special releases. Consult Milcor Customer Service for special unit requirements.
- Covers latch automatically and manual release mechanism resets automatically by closing covers.