



DESCRIPTION

The Standard/ Quick Response Horizontal Sidewall are generally used in lieu of pendent and upright sprinklers because of building construction or installation economic considerations. They are designed for installation along a wall or the side of a beam and just beneath a smooth ceiling. Installed with their centerline of waterway horizontal, these sprinklers produce a quarter-spherical water discharge pattern that is predominately directed downward and outward from the deflector; however, a portion of the spray is also directed towards the back wall.

Model CT021/ CT022, Standard/Quick Response Horizontal Sidewall Sprinklers, are automatic sprinklers of the frangible bulb type, and standard spray, 1/2" orifice, 5 / 3 mm bulb. They are "standard / quick response-standard orifice sidewall sprinklers" intended for use in fire sprinkler systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (e.g., UL Listing is based on NFPA 13 requirements).

SPRINKLER OPERATION

During a fire conditions, the thermal-sensitive liquid in the glass bulb expands, causing the bulb to shatter, releasing the button and spring seal assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.



COVERAGE

For coverage area and sprinkler placement, refer to NFPA13 standards.

TECHNICAL SPECIFICATIONS

MODEL NO.	CT021	CT022
Style	Horizontal Sidewall	
Bulb Nominal Dia. & Response	Ø5mm, Standard Response	Ø3mm, Quick Response
Thread Size [Optional]	NPT1/2 or R1/2	
Nominal Orifice Size	1/2 Inch	
Nominal K-Factor	5.6 (U.S.)80 (metric)	
Max. Working Pressure	175 psig/1.2 MPa (12 bar)	
Factory Hydrostatic Test	100% @ 500psig (3.4 MPa)	
Min. Operating Pressure	7 psig0.048 MPa (0.48 bar)	
Sprinkler Finish [Optional]	Natural Brass Chrome Plated White Color Coated	
Escutcheon Finish	Chrome Plated or Color Coated In Any Color	
Listings and Approvals	UL Listed/FM Approved	

AVAILABLE TEMPERATURE RATING

TEMP. CLASSIFICATION	ORDINARY	ORDINARY	INTERMEDIATE	INTERMEDIATE
Nominal Temp. Rating	135°F/57°C	155°F/68°C	175°F/79°C	200°F/93°C
Max. Ambient Temp. Allowed ⁵	115°F/46°C	135°F/57°C	155°F/68°C	180°F/82°C
Max. Recommended Ambient Temp ⁶	100°F/38°C	100°F/38°C	150°F/65°C	150°F/65°C
Glass Bulb Color ⁷	Orange	Red	Yellow	Green