



# Model F1FR QREC CCP Concealed Quick Response Extended Coverage Sprinkler

## Concealed Quick Response Sprinkler Coverage to 20' x 20' (6.0 m x 6.0 m)

### Features

1. Quick response performance.
2. Push on, thread off, sturdy convenient cover plate.
3. Factory assembled sprinkler and cup, shipped complete with protective cap.
4. Sprinkler assembly and cover plate separately packaged.
5. Two Versions:
  - 1/2" (13mm) Adjustment
  - 5/16" (8mm) Adjustment
6. Rugged damage resistant assembly. No exposed thermal element.
7. Utilizes the Model F1FR QREC Pendent Sprinkler.
8. Aesthetic ceiling profile.
9. Standard finishes in white painted or chrome plated. Other color-painted and specialty finishes available.

For Model F1FR QREC CCP 1/2" K 5.6 (80) Sprinkler Types refer to Bulletin 028 for technical specifications and approvals.

### Product Description

Model F1FR QREC Quick Response Extended Coverage Concealed Sprinkler is an attractive, low profile concealed sprinkler assembly. This sprinkler assembly utilizes a Model F1FR QREC pendent sprinkler in a Model CCP cup and push-on thread-off cover plate assembly. The cup is securely factory threaded on the sprinkler's inlet end. The assembly is shipped with a protective cap. The sprinkler and cup are easily installed into the sprinkler fitting using the Model RC1 Sprinkler Wrench. The cover plate assembly is attached to the sprinkler cup using a flexible tooth threaded engagement. The cover plate is attached to the skirt using 135°F (57°C) ordinary temperature classification solder.



When the ceiling temperature rises, the solder holding the cover plate melts, allowing the release of this part and thus exposing the Model F1FR QREC sprinkler inside to the rising ambient temperature. The Temperature rating of the sprinkler identified by the color of the glass bulb.

Model F1FR QREC automatic sprinkler utilizes a 3.0 mm frangible glass bulb. This sprinkler has demonstrated response times in laboratory tests which are five times faster than standard response sprinklers. This quick response enables the Model F1FR QREC sprinkler to apply water to a fire faster than standard sprinklers of the same temperature rating.

### Approval Type:

Quick Response Extended Coverage — Light Hazard

### Technical Data:

Nominal Orifice	Thread Size	K Factor		Approval Organizations	Sprinkler Ident. Number (SIN)
		US	Metric		
17/32" (20mm)	3/4" (R3/4)	8.0	115.3	1,2,3	R4842

Thread Size	Model	Temp. Rating		Max. Ceiling Temp.	Bulb Color
		Sprinkler	Cover		
3/4" NPT (R3/4)	F1FR QREC	135°F	135°F	100°F	Orange
		57°C	57°C		
3/4" NPT (R3/4)	F1FR QREC	155°F	135°F	100°F	Red
		68°C	57°C		

Coverage Area		
Flow Rate gpm (L/m)	Pressure psi (bar)	Max. Enclosure Area Width x Length ft. x ft. (m x m)
	K=8.0 (Metric 115.3)	
26 (98.4)	10.6 (0,7)	16 x 16 (4.9 x 4.9)
33 (125.0)	17.0 (1,2)	18 x 18 (5.5 x 5.5)
40 (151.4)	25.0 (1,7)	20 x 20 <sup>(1)</sup> (6.0 x 6.0) <sup>(1)</sup>

<sup>(1)</sup> 135°F (57°C) Only

Note: 1 bar = 100 kPa

