



## Model G4XLO QREC Quick-Response Extended Coverage Concealed Pendent

K-factor 11.2 (160)

### Features

- Extended coverage protection to 20 ft x 20 ft (6.1 m x 6.1 m) for light and ordinary hazard occupancies
- Flat cover plate available in a variety of finishes, including stainless steel clad.
- 1/2 inch (13 mm) cover plate adjustment

### Product Description

The Model G4XLO QREC is a cULus Listed quick-response extended coverage concealed pendent sprinkler with an 11.2 (160 metric) K-factor for use in light and ordinary hazard occupancies. The Model G4XLO QREC sprinkler utilizes a sensitive 165°F (74°C) soldered alloy fusible element and a 135°F (57°C) flat cover plate. Maximum coverage area per sprinkler is 400 ft<sup>2</sup> (37.2 m<sup>2</sup>).

Systems using extended coverage sprinklers use fewer sprinklers and less piping which can result in lower installation cost. Additionally, the larger 11.2 (160 metric) K-factor of the GXLO QREC results in lower discharge pressures when compared to smaller K-factor sprinklers.

Table A provides a summary of the Model GXLO QREC sprinkler. Additional technical information for the product is provided on page 2.

### Application

Model G4XLO QREC sprinklers are extended coverage quick-response concealed pendent fire sprinklers intended for use in accordance with NFPA 13 as well as the requirements of any other authority having jurisdiction. Minimum flow and pressure requirements, based upon sprinkler spacing, are provided in Table B (page 2).



G4XLO QREC ECLH/ECOH Concealed

The following criteria also apply to the Model G4XLO QREC:

- Minimum sprinkler spacing is 9 ft (2.75 m).
- Sprinklers are only to be used in systems hydraulically designed per NFPA 13.
- Sprinklers shall be installed in unobstructed construction as defined in NFPA 13.
- Ceiling slope is limited to a pitch of 2:12 (16.7 percent)
- Maximum working pressure is 175 psi (12.1 bar) at the sprinkler.

Sprinkler Summary

					Table A
Sprinkler Model	K-Factor gpm/psi <sup>1/2</sup> (L/min/bar <sup>1/2</sup> )	Max. Working Pressure psi (bar)	Listings & Approvals	Orientation	Sprinkler Identification Number (SIN)
G4XLO QREC	11.2 (160)	175 (12)	cULus	Concealed Pendent	R7146

**Technical Specifications**

**Style:** Extended Coverage Flat Plate Concealed  
Pendent

**Threads:** 3/4" NPT or ISO 7-1 R3/4

**Nominal K-Factor:** 11.2 (160 metric)

**Max. Working Pressure:** 175 psi (12 bar)

**Material Specifications**

**Fusible Link:** Beryllium Nickel

**Sprinkler Body:** Brass Alloy

**Levers:** Bronze Alloy

**Sealing washer:** Nickel with PTFE

**Load Screw:** Bronze Alloy

**Towers:** Copper Alloy

**Pins:** Stainless Steel

**Deflector:** Bronze Alloy

**Cup:** Steel

**Sprinkler Temperature Ratings**

165°F (74°C)

**Sensitivity**

Quick Response

**Cover Plates**

Model G5 [135°F (57°C) only]

**Cover Plate Finishes**

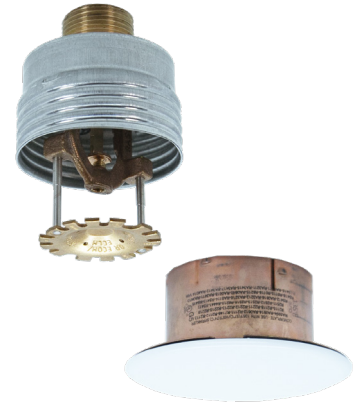
(See Table C)

**Sprinkler Wrench**

Model G4

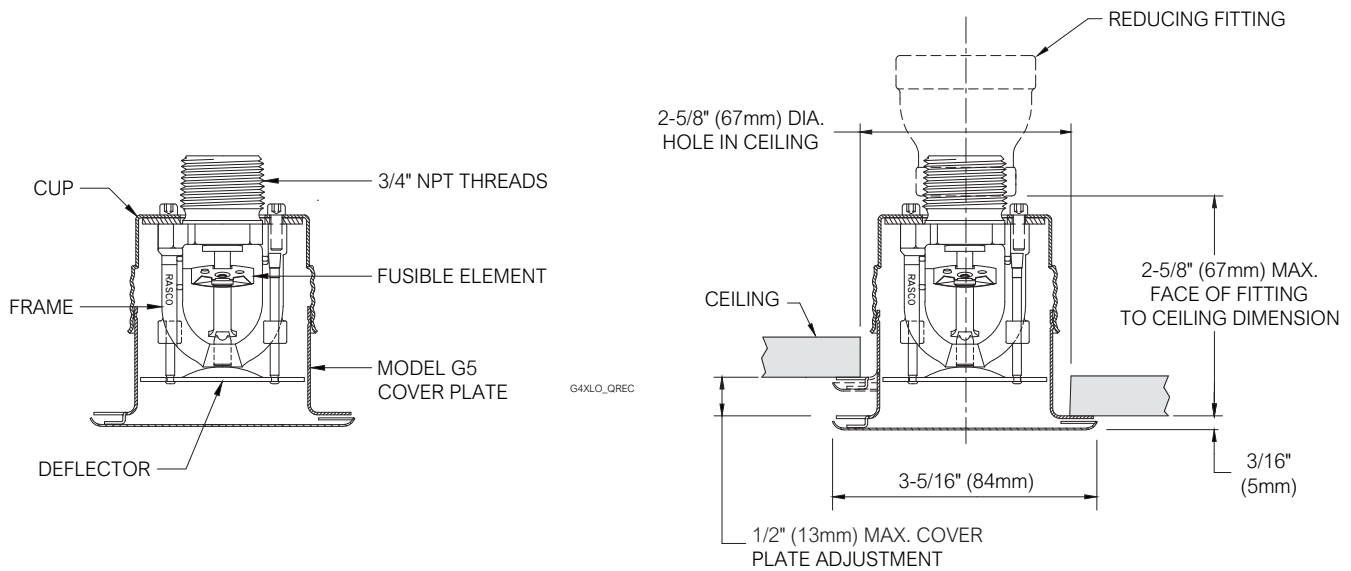
**Listings and Approvals**

cULus Listed (Light and Ordinary hazard)



Model G4XLO QREC Components and Dimensions

Figure 1



Minimum Flow and Pressure Requirements

Table B

Spacing ft (m)	Coverage Area ft <sup>2</sup> (m <sup>2</sup> )	Light Hazard		Ordinary Hazard Group 1		Ordinary Hazard Group 2	
		Flow gpm (lpm)	Pressure psi (bar)	Flow gpm (Lpm)	Pressure psi (bar)	Flow gpm (lpm)	Pressure psi (bar)
14 x 14 (4.3 x 4.3)	196 (18.2)	30 (113.5)	7.2 (0.5)	30 (113.6)	7.2 (0.5)	39 (147.6)	12.1 (0.8)
16 x 16 (4.9 x 4.9)	256 (23.8)	30 (113.5)	7.2 (0.5)	39 (147.6)	12.1 (0.8)	51 (193.0)	20.7 (1.4)
18 x 18 (5.5 x 5.5)	324 (30.1)	33 (125.0)	8.7 (0.6)	49 (185.5)	19.1 (1.3)	65 (246.0)	33.7 (2.3)
20 x 20 (6.1 x 6.1)	400 (37.2)	40 (151.0)	12.8 (0.9)	60 (227.1)	28.7 (2.0)	80 (302.8)	51.0 (3.5)

## Installation

Model GXLO QREC sprinklers must be installed in accordance with NFPA 13 and the requirements of all authorities having jurisdiction using only the Reliable installation wrench identified in this bulletin. Any other wrench may damage the sprinkler. Damaged sprinklers must be immediately replaced.

When installing the sprinkler, the Model G4 wrench is first positioned into the cup until the two wrench tabs fully engage the drive slots in the top of the cup (see Figures 2 and 3). Care must be taken when inserting the wrench into the cup to avoid damaging the sprinkler. **DO NOT WRENCH ON ANY OTHER PART OF THE SPRINKLER.** The sprinkler is then tightened into the pipe fitting.

A leak tight sprinkler joint can be obtained with a torque of 14 - 20 lb-ft (19 - 27 N·m) after applying an appropriate thread sealant. Exceeding the recommended torque may cause leakage or impairment of the sprinklers.

The Model G4XLO QREC sprinkler must only be installed with a 135°F (57°C) Model G5 cover plate which has been listed with the sprinkler.

Do not install the Model G4XLO QREC sprinkler in locations where the pressure in the space above the sprinkler is higher than the pressure in the space below the ceiling.

## Maintenance

Reliable Model G4XLO QREC series sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25, as well as the requirements of any authorities having jurisdiction. Failure to properly maintain sprinklers may result in inadvertent operation or non-operation during a fire event.

Prior to installation, sprinklers should remain in the original cartons and packaging until used. This will minimize the potential for damage to sprinklers that could cause improper operation or non-operation.

Do not clean sprinklers with soap and water, ammonia liquid or any other cleaning fluids. Remove dust by gentle vacuuming without touching the sprinkler.

Replace any sprinkler which has been painted (other than factory applied).

A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers.

Model G4 Wrench

Figure 2



Model G4XLO QREC Drive Slot

Figure 3



**Model G5 Cover Plate Finishes<sup>(1)</sup>****Table C**

Standard Finishes	Special Finishes
White Paint Chrome	Off-White Paint Black Paint Custom Color Paint - Specify <sup>(2)</sup> Raw Brass (Lacquered) Bright Brass Finished Bronze Satin Chrome Stainless Steel-Clad <sup>(3)</sup> Custom Printed

**Notes:**

1. Paint or any other coating applied over the factory finish will void all approvals and warranties.
2. Custom color paint is semi-gloss unless specified otherwise.
3. Stainless steel-clad cover plates are Type 316 Stainless Steel on the finished side and C102 Copper Alloy on the back side. Cover plates are not listed or approved as corrosion resistant.

**Guarantee**

For the Reliable Automatic Sprinkler Co., Inc. guarantee, terms, and conditions, visit [www.reliablesprinkler.com](http://www.reliablesprinkler.com).

**Ordering Information**

Specify the following when ordering:

**Sprinkler**

- Model G4XLO QREC Sprinkler

**Threads**

- [3/4" NPT] [ISO 7-1 R3/4]

**Cover Plate**

- Model G5 [135°F (57°C) only]

**Cover Plate Finish**

- See Table C