Engineering Specification

Model KFR80 Quick Response Automatic Sprinklers

**Recommended CSI MasterFormat Specification Location: 21 13 00, Fire Suppression Sprinkler Systems (formerly 13930)**

Sprinklers shall be a quick responsestandard spray **[**upright**] [**pendent**]** that is **[**cULus Listed**] [**FM Approved**]**. Sprinkler frame and deflector shall be of brass frame construction having a ¾” NPT thread. Water seal assembly shall consist of an approved beryllium-nickel fusible solder link assembly, utilizing a strut and lever principal of operation, with Teflon-coated nickel sealing washer and bronze alloy cap containing no plastic parts. Sprinkler temperature rating shall be **[**165°F (74°C)**] [**212°F (100°C)**]**. Sprinklers shall have a nominal K-factor of 8.0 gpm/psi1/2 (115 l/min/bar1/2) – large orifice. Sprinklers shall have a rated working pressure of **[**175 psi (12.1 bar) for FM Approved**] [**250 psi (17.2 bar) for UL Listed**]**. Standard finish shall be **[**Bronze**] [**Chrome Plated**] [**White Polyester**] [**Special finish – specify**]**.

Sprinklers shall be of the Model KFR80 Series. Refer to Reliable Bulletin 054 for associated sprinkler identification number (SIN) with respect to style.

## **For recessed pendent, add:**

**{**Recessed escutcheon assembly shall be a factory-assembled, two-piece steel escutcheon of push-on and thread off design with ½” adjustment. Standard finish shall be **[**White Polyester**] [**Chrome Plated**] [**Brass**] [**special finish – specify**]**.**} {**Recessed escutcheon assembly shall be a two-piece “friction fit” escutcheon with ½” adjustment. Standard finish: **[**White Polyester**] [**Chrome Plated**] [**Brass**] [**Special finish– specify**]**.**}**

Recessed escutcheons that are permitted to be used with each Model KFR80 Series recessed sprinkler shall be used.