Engineering Specification

Model KFR56-300 Quick Response Automatic Sprinklers

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

Sprinklers shall be a quick response standard spray **[**upright**] [**pendent**] [**horizontal sidewall**]** that is cULus Listed. Sprinkler frame and deflector shall be of brass frame construction having a ½” 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 5.6 gpm/psi1/2 (81 l/min/bar1/2) – standard orifice. Sprinklers shall have a rated working pressure of 300 psi (20.7 bar). Standard finish shall be **[**Bronze**] [**Chrome Plated**] [**White Polyester**] [**Special finish– specify**]**.

Sprinklers shall be of the Model KFR56-300 Series. Refer to Reliable Bulletin 039 for associated sprinkler identification number (SIN) with respect to style.

## **For recessed pendent and/or recessed horizontal sidewalls, 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 KFR56-300 Series recessed sprinkler shall be used.

**For concealed pendent sprinklers, add**:

Concealed pendent sprinklers shall have a factory-installed, steel sprinkler cup. Method of attaching the cover plate to the sprinkler cup shall be a push-on and thread-off design allowing **[**1/2” (13 mm)**] [**5/8” (8 mm)**]** of adjustment. The cover plate temperature rating shall be **[**135°F (57°C)**] [**165°F (74°C)**]**. A factory applied protective cap shall be provided to protect against installation damage. Standard cover plate finish: **[**Chrome**] [**White**] [**Special finish – specify**]**.

Cover plates used with the Model KFR56-300 Concealed Pendent sprinklers shall be the Model CCP cover plate.