

# FIRE PROTECTION SYSTEM



## EC-25 Upright

- CMDA and CMSA Applications and FM Approved for storage and non-storage applications
- Solder type
- The maximum coverage area per sprinkler is 196 ft.<sup>2</sup> (18,2 m<sup>2</sup>), which is almost double the area offered by standard coverage sprinklers used for similar applications.
- For use in high density applications such as (big box) retailing, extra hazard, and high-piled storage occupancies
- Minimum operating pressure of 7 psi (0,48 bar)



## EC-11 & EC-14 Upright, Pendant & Recessed Pendant

- Light hazard/Ordinary hazard
- 3 mm bulb
- Designed for maximum coverage applications of 400 ft<sup>2</sup> - 14' x 14' (4,3 m x 4,3 m) up to 20' x 20' (6,1 m x 6,1 m)
- Low profile decorative glass bulb spray sprinklers
- Series EC-11 and EC-14 Sprinklers feature a UL and C-UL Listing that permits their use with unobstructed or non-combustible obstructed ceiling construction as defined and permitted by NFPA 13, as well as a specific application listing for use under concrete tees.



## EC-8 Pendant & Recessed Pendant

- Light hazard
- 3 mm bulb
- Covers areas as large as 20' x 20' (6,1 m x 6,1 m)
- The Series EC-8 Extended Coverage Pendant Sprinklers are decorative glass bulb sprinklers designed for use in light hazard occupancies.
- The recessed version of the EC-8, intended for use in areas with a finished ceiling, uses either the two-piece Recessed Escutcheon.



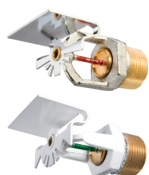
## EC-5 Pendant & Recessed Pendant

- Light hazard
- 3 mm bulb
- Coverage up to 20' x 20' (6,1 m x 6,1 m)



## Horizontal Sidewall & Recessed Horizontal Sidewall

- Light hazard
- 3 mm bulb
- Coverage up to 16' x 24' (4,9 m x 7,3 m)
- Designed for use in hydraulically calculated sprinkler systems in commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.



## ELO SW-20/SW-24 Horizontal Sidewall

- 3 mm bulb
- Standard Response, Extended Coverage Ordinary Hazard (ECOH)
- Horizontal Sidewall Sprinklers are decorative glass bulb sprinklers designed for use in ordinary hazard occupancies per NFPA 13
- SW-20 Listed to a 16'-0" (4,9 m) wide and a 20'-0" (6,1 m) throw maximum coverage area
- SW-24 Listed to a 16'-0" (4,9 m) wide and a 24'-0" (7,3 m) throw maximum coverage area



## TY-FRL Horizontal Sidewall

- Light hazard
- Solder type
- Designed for use in commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.
- Coverage up to 16 feet (4,9 m) wide by 24 feet (7,3 m) long, they are designed for installation along a wall or the side of a beam and just beneath a smooth, flat, horizontal ceiling.



## TY-FRB Horizontal & Recessed Horizontal Sidewall

- Two-piece escutcheon converts sidewall sprinklers into low profile sprinkler assemblies with coverage areas up to 16' x 22' (4,9 m x 6,7 m) for K=5.6 and 16' x 24' (4,9 m x 7,3 m) for K=8.0
- Provides 3/4" NPT (19,1 mm) of horizontal adjustment from the recessed sidewall position
- Quick & Standard Response (see tech data sheet)
- Decorative 3 mm glass bulb sprinklers designed for use in hydraulically calculated sprinkler systems in light hazard, commercial occupancies such as churches, restaurant seating areas, hotels, educational facilities, offices, etc.



## CHEC Concealed Horizontal Extended Coverage Sidewall

- Light hazard
- 3 mm bulb
- Coverage up to 16' x 16' (4,9 m x 4,9 m)
- Lowest flows & pressures allowed by NFPA 13
- 1/2" adjustment
- 12" maximum deflector distance from ceiling
- No (Slots) in cover plate
- It is the best choice for architecturally sensitive areas such as dormitories, hotel rooms, reception areas, office buildings, banquet facilities, conference rooms, and hospitals



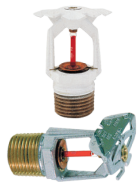
## ELOC Concealed Pendant

- Light hazard
- Extra Large Orifice Concealed (ELOC) Pendant Sprinklers are decorative, fast response solder type sprinklers featuring a flat cover plate designed to conceal the sprinkler
- Covers 400 sq. ft. (37,2 m<sup>2</sup>) using less pressure than a standard 1/2" (12,7 mm) sprinkler at 225 sq. ft. (20,3 mm)
- Available with optional dust and air seal
- Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration



## Pendent & Recessed Pendent

- 3 mm bulb type
- Intended for use in these wet pipe scenarios:
  - residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
  - residential occupancies up to and including four stories in height per NFPA 13R
  - sprinkler systems for the residential portions of any occupancy per NFPA 13



## Horizontal, Recessed Horizontal Sidewall & Vertical Sidewall

- Light hazard/Ordinary hazard
- 3 mm bulb
- Designed for use in applications where aesthetics must be considered or where building construction makes the installation of standard pendent or upright sprinklers impractical
- Vertical sidewall sprinkler can be installed in either the pendent or upright position along a wall or the side of a beam and just below a smooth ceiling



## RFII (ROYAL FLUSH II) Concealed Pendant

- Light hazard
- 3 mm bulb
- Maximum 20' x 20' (6,1 m x 6,1 m) QR Listing
- Concealed in an enclosed escutcheon plate with flat cover for use in those applications where aesthetics is a primary consideration
- Separable, two-piece design of the mounting cup and cover allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling
- Internally threaded closure with 1/2" (12,7 mm) of adjustment



## Horizontal & Recessed Horizontal Sidewall

- 3 mm bulb type
- Intended for use in these wet pipe scenarios:
  - residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D,
  - residential occupancies up to and including four stories in height per NFPA 13R
  - sprinkler systems for the residential portions of any occupancy per NFPA 13



## TY-L Upright, Pendent & Recessed Pendent

- All hazards
- Solder type
- Discharges a hemispherical water spray pattern in the area beneath the sprinkler
- Designed for use in light, ordinary, and extra hazard, commercial occupancies such as banks, hotels, shopping malls, factories, refineries, chemical plants, etc.



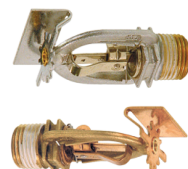
## LFII Pendent & Recessed Pendent

- 3 mm bulb type
- Intended for use in wet & dry pipe scenarios:
  - residential sprinkler systems for one/two-family dwellings and mobile homes per NFPA 13D
  - residential occupancies up to and including four stories in height per NFPA 13R
  - sprinkler systems for the residential portions of any occupancy per NFPA 13
- Approved for special applications with beamed ceilings



## T Y-B Upright, Pendent & Recessed Pendent

- All hazard
- 5 mm bulb
- Discharges a hemispherical water spray pattern in the area beneath the sprinkler
- Small frame, narrow profile bulb
- Designed for use in light, ordinary, or extra hazard, commercial occupancies such as banks, hotels, shopping malls, factories, refineries, chemical plants, etc.



## TY - L Horizontal Sidewall

- Light hazard / Ordinary hazard
- Solder type
- Suited for hotels, nursing homes and hospitals
- Design allows piping to be confined to corridors, closets or service areas
- They are designed for installation along a wall or the side of a beam and just beneath a smooth ceiling.



### TY-FRL Upright, Pendent & Recessed Pendent

- Light hazard/Ordinary hazard  
light hazard K=2.8 (40,3)
- Solder type
- Typically used in hotels, motels, office buildings and other commercial and industrial applications



### TY-QRF Flush Pendent

- Solder type
- They are designed for use in commercial light and ordinary hazard occupancies such as offices and restaurants
- Features separable escutcheon with  $\frac{3}{8}$ " vertical adjustment
- When aesthetics is the major consideration, the TY-QRF should be your first choice



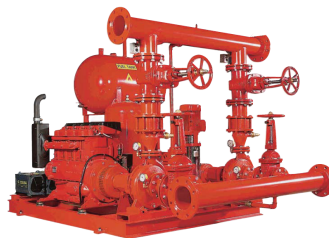
### IL LUSION™ Concealed Standard Coverage Pendent Sprinklers

- Extra large orifice/Special hazard
- Coverage per NFPA 13
- Available with optional dust and air seal
- The ILLUSION is concealed in an enclosed escutcheon plate with flat cover for use in those applications where architecturally sensitive areas such as casinos, hotel lobbies, office buildings, churches and restaurants

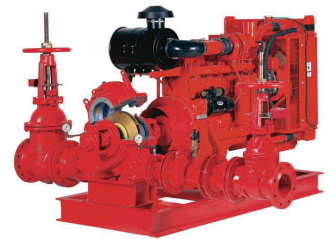


### Inline Type Fire Pumps/YPH Series

- Complies with NFPA 20
- Low rated motor powers
- Space saving design
- Easy maintenance and low cost upkeep
- Self-venting design
- Easy grouping



### End Suction Type Fire Pumps/YNM Series



### Horizontal Split-Case Type Fire Pumps/YPSP Series

- Complies with NFPA 20
- Space saving design
- Available in horizontal or vertical configuration
- Dynamic balanced impellers



### Controllers

#### Electric Motor Controller

- In accordance with NFPA 20
- Direct starting
- Star-delta starting
- Automatic and Nonautomatic starting&Control options
- Sequence starting of pumps
- Weekly Program Timer on request
- Minimum run timer function