

# VNWH.EX5085 - Sprinklers, Early Suppression Fast Response

## Sprinklers, Early Suppression Fast Response

[See General Information for Sprinklers, Early Suppression Fast Response](#)

### VIKING CORP

210 INDUSTRIAL PARK DR  
HASTINGS, MI 49058-9706 USA

Models VK500, VK502, VK503, VK504, VK506 and VK510 are fusible element type. Model VK5101 is glass bulb type.

EX5085

| SIN    | K-Factor | Type    | Temp Rating, °F |
|--------|----------|---------|-----------------|
| VK500  | 14.0     | Pendent | 165, 205        |
| VK503  | 16.8     | Pendent | 165, 205        |
| VK506  | 22.4     | Pendent | 165, 205        |
| VK5101 | 25.2     | Pendent | 155, 200        |

### DRY TYPE ESFR SPRINKLERS

| SIN   | Nom K-Factor | Type    | Max Length, in. | Temp Rating, °F |
|-------|--------------|---------|-----------------|-----------------|
| VK502 | 14.0         | Pendent | 36              | 165             |
| VK504 | 16.8         | Pendent | 36              | 165, 205        |

### SPECIFIC APPLICATION ESFR SPRINKLERS

| SIN   | K-Factor | Type    | Fire Risk | Temp Rating, °F |
|-------|----------|---------|-----------|-----------------|
| VK510 | 25.2     | Pendent | +         | 165, 205        |

+ The specific application ESFR sprinklers are intended to be installed using the same installation, obstruction and construction criteria as is applicable to ESFR Sprinklers, except the maximum deflector distance below the ceiling when installed in nominal 45 ft. high ceilings is 14 inches.

### SPECIFIC APPLICATION ESFR SPRINKLERS FOR USE WITH ANTIFREEZE SYSTEMS

| SIN   | K-Factor | Type    | Temp Rating, °F |
|-------|----------|---------|-----------------|
| VK510 | 25.2     | Pendent | 165, 205        |

| Max Building Height, ft | Max Storage Height, ft | Min System Working Pressure, psig |
|-------------------------|------------------------|-----------------------------------|
|                         |                        |                                   |

|        |    |    |
|--------|----|----|
| 45.25+ | 40 | 60 |
| 40+    | 35 | 40 |

+ For use with a maximum 50% by volume of propylene glycol and water antifreeze solution a maximum system volume of 1100 gallons for protection of Class II Commodity.

The SIN VK510 specific application ESFR sprinkler is intended to be installed using the same installation, obstruction and construction criteria as is applicable to ESFR Sprinklers with a nominal K-factor of 25.2 except the maximum deflector distance below the ceiling when installed in nominal 45 ft. high ceilings is 14 inches.

### SPECIFIC APPLICATION ESFR SPRINKLERS

| SIN    | K-Factor | Type    | Fire Risk | Temp Rating, °F |
|--------|----------|---------|-----------|-----------------|
| VK514  | 28       | Pendent | +         | 165, 205        |
| VK5141 | 28       | Pendent | ++        | 155, 200        |

+ The Model VK514 fusible element type sprinkler is intended for use in accordance with NFPA 13, to protect single- and double-row rack storage (no open top containers or solid shelves) and palletized and solid pile storage (no open top containers or solid shelves) of Class I-IV commodities encapsulated or nonencapsulated and cartoned, unexpanded Group A plastics when installed with minimum 6 ft. aisle spaces in the following building and storage heights and minimum pressures.

++ The Model VK5141 glass bulb type sprinkler is intended for use in accordance with NFPA 13, to protect single- and double-row rack storage (no open top containers or solid shelves) and palletized and solid pile storage (no open top containers or solid shelves) of Class I-IV commodities encapsulated or nonencapsulated and cartoned, unexpanded Group A plastics when installed with minimum 5 ft. aisle spaces in the following building and storage heights and minimum pressures.

| Max Building Height, ft | Max Storage Height, ft | Min System Working Pressure, psig |
|-------------------------|------------------------|-----------------------------------|
| 48                      | 43                     | 35                                |

The Model VK514 specific application ESFR sprinkler is intended to be installed using the same installation, obstruction and construction criteria as is applicable to Early Suppression Fast Response Sprinklers except that the sprinklers may be installed up to 14 in. below the ceiling with 6 ft. aisle width.

Last Updated on 2019-04-29

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2022 UL LLC"