

MODEL ESFR-17

Dry Type Pendent Sprinklers

**Cold storage protection to
40 ft (12,2 m) ceiling height**

**Cold storage protection with
standard wet system piping**

**Threaded and grooved inlet
for maximum choice**

**Two temperatures for
maximum flexibility**



Features & Benefits:

- // Protection down to -60°F (-51°C)
- // Intermediate temperature for installation flexibility
- // Storage arrangement versatility
- // Three lengths provide installation latitude
- // Commodity flexibly

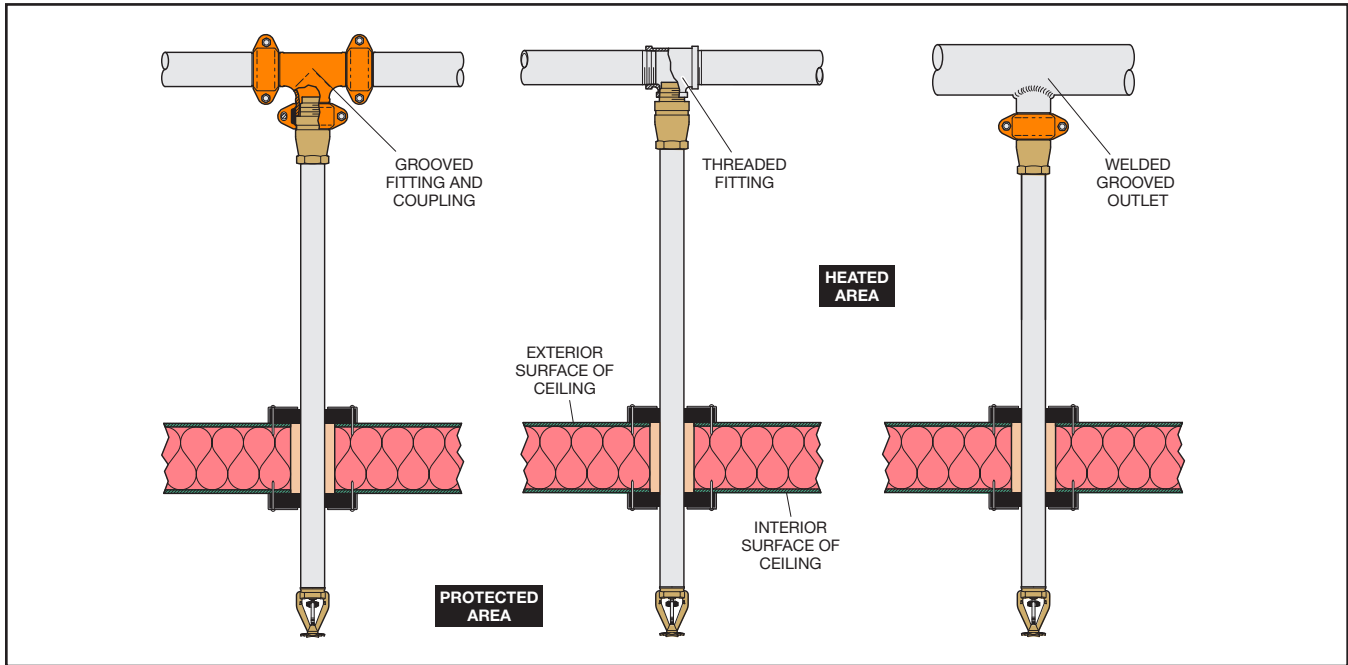
Cold storage presents a range of environmental challenges for automatic fire protection systems, from cooler storage with a temperature of 40°F (4°C) to sharp freezer storage where the temperatures may be maintained below -32°F (-35°C). There are two construction methods for cold storage; structural and box-in-box. Structural cold storage facilities are ones where sandwich panels are attached to the building envelop to form the cold area. Box-in-box cold storage facilities are ones where the sandwich panels are used to form cold areas inside of the building envelop.

For box-in-box cold storage the system piping can be a standard wet system installed outside the cold area with only dry pendent sprinklers entering the cold area.

As a result these systems are very popular with box-in-box construction regions where the ambient temperature outside the box is 40°F (4°C) and above because they simplify the installation and maintenance of the system

The Tyco Model ESFR-17 Dry Type Sprinkler is an easy to install, cost-effective solution for box-in-box cold storage applications. It eliminates the need for antifreeze, dry or pre-action system and in-rack sprinklers. The two temperature ratings offer installation flexibility allowing the intermediate temperature sprinkler to be installed near heat sources such as automatic defrost units. Backed by a UL Listing and FM Approval, the Tyco Model ESFR-17 Dry Type sprinkler is the smart choice for box-in-box cold storage

TYPICAL INSTALLATION OPTIONS FOR THE ESRF-17 DRY TYPE SPRINKLER



COMMODITY SELECTION AND DESIGN CRITERIA OVERVIEW FOR MODEL ESRF-17 DRY TYPE PENDENT SPRINKLERS

Application	NFPA	FM
Open Frame (i.e., no solid shelves) Single, Double, Multiple-Row, or Portable Rack Storage of Class I-IV	NFPA 13, Chapters 16 and 17	FM 2-0 and 8-9
Solid Pile or Palletized Storage of Class I-IV	NFPA 13, Chapters 14 and 15	FM 2-0 and 8-9
Idle Pallet Storage	NFPA 13, Chapter 12	FM 2-0, 8-9, and 8-24
Rubber Tire Storage	NFPA 13, Chapter 18	FM 2-0 and 8-3
Roll Paper Storage	NFPA 13, Chapter 19	FM 8-21
Flammable/Ignitable Liquid Storage	NFPA 30	FM 7-29
Aerosol Storage	NFPA 30B	FM 7-31

N/A = Not Applicable

In all cases, the Tyco technical data sheet TFP320 and the appropriate NFPA or FM installation standard, or other applicable standard, must be referenced to ensure applicability and to obtain complete installation guidelines. The general guidelines in this document are not intended to provide complete installation criteria and are subject to change without notice.

Always refer to the Technical Data Sheet TFP320 and our general T & C of sale for complete description of all listing criteria, design parameters, installation instructions, care and maintenance guidelines, and other terms such as our limited warranty.