

FIKE PRE-ENGINEERED NOZZLES FOR FM-200[®] CLEAN AGENT SYSTEM

FM-200 is also known by its ASHRAE designation HFC-227ea

DESCRIPTION

Nozzle

The function of the Fike Nozzle in a fire suppression system, is to distribute the Clean Agent in a uniform, predetermined pattern and concentration. The nozzles are designed to complete the discharge of Clean Agent in 10 seconds or less when installed within the design limitations of the Fike Design Manual, P/N 06-202 or 06-215.

Fike Nozzles are available in five sizes. Each nozzle comes in two configurations of 180 and 360 degree distribution patterns.



360° Pre-Engineered Nozzles	
Part Number	Description
80-052-0625	3/8" (10mm)
80-053-0781	1/2" (15mm)
80-1114	1" (25mm)
80-1116	1-1/2" (40mm)
80-1118	2" (50mm)

180° Pre-Engineered Nozzles	
Part Number	Description
80-1113	1" (25mm)
80-1115	1-1/2" (40mm)
80-1117	2" (50mm)

APPROVALS

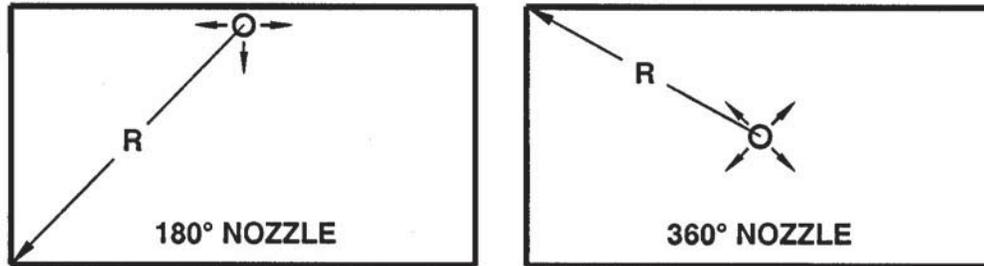
- UL Listed - Ex 4623
- ULC Listed - CEx624
- FM Approved - 0Y4A8.AF

ARCHITECT AND ENGINEERING SPECIFICATIONS

The Nozzle used to distribute the Clean Agent shall be a Fike Series 80. The nozzle shall be available in 3/8" (10 mm), 1/2" (15mm), 1" (25mm), 1 1/2" (40mm) and 2" (50mm) sizes. Each nozzle is available in two styles: 180 and 360 degree distribution patterns. The nozzle used shall be provided with internal pipe threads that correspond to the nozzle size. The nozzle used shall be Underwriters Laboratories listed and Factory Mutual approved. (See diagrams on next page for nozzle size/area coverage). The Fike Nozzle is provided with pipe threads that correspond to the nozzle size. With this arrangement, the Fike Nozzle can be installed directly at the Clean Agent container or remotely, at the end of a discharge piping system.

Form No. C.1.02.01-6

NOZZLE SIZE AND AREA COVERAGE



Nozzle Area Coverage				
Nozzle Type	Radius "R" Dimension (English)	Radius "R" Dimension (Metric)	Ceiling Height Range (English)	Ceiling Height Range (Metric)
180°	45'-8"	13.92m	12 in. to 16 ft.	0.3 to 4.88m
360°	29'-8"	9.04m	12 in. to 16 ft.	0.3 to 4.88m

NOTES:

- An allowable area of coverage includes any area where the maximum coverage from the nozzle ("R" dimension) is not exceeded.
- Nozzles should be located on center line of hazard area.
- When working with ceiling heights exceeding the values tabulated above, the hazard volume must be broken down into vertically stacked hazard volumes, with heights less than the maximums shown in the table. It is imperative that unusual applications of this nature be handled by experienced people in the field, and in most cases, operational tests should be performed before the system is put into service.
- Dimensions and nozzle data shown are taken from the UL listed and FM approved Design, Installation & Maintenance Manual - P/N 06-202 or 06-215.
- 180 and 360 degree nozzles may be placed a maximum of 1 foot (30.5cm) down from the ceiling, and 180 degree nozzles may be placed a maximum of 1 foot (30.5cm) from the wall.

