

## ECARO-25™ PRE-ENGINEERED NOZZLES

### DESCRIPTION

The function of the Fike Nozzle, in a fire extinguishing 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 when installed within the design limitations of the ECARO-25 Design Manual (P/N 06-238, 06-239, or 06-323).

Fike Nozzles are available in six sizes: 3/8", 1/2", 3/4", 1", 1 1/2" and 2" (10, 15, 20, 25, 40, 50mm). Each nozzle comes in two configurations: 180 and 360 degree distribution patterns. As an option, deflector plates are available where sensitive ceiling tiles must be protected.

The nozzle used shall be Factory Mutual (FM) approved.

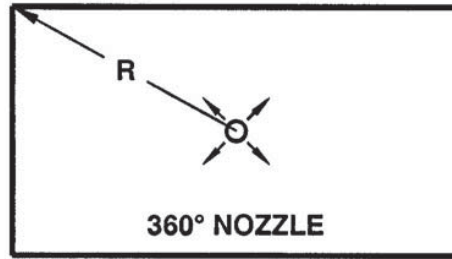
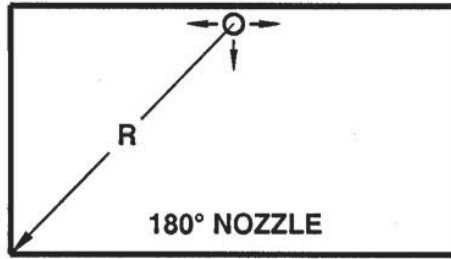
The Fike Nozzle is provided with pipe threads that correspond to the nozzle size. With this arrangement, the Fike Nozzle can be installed directly at the clean agent container or remotely, at the end of a discharge piping system.



### NOTES

- a. An allowable area of coverage includes any area where the maximum coverage from the nozzle ("R" dimension) is not exceeded.
- b. Nozzles should be located on center line of hazard area.
- c. When working with ceiling heights exceeding the values indicated, the hazard volume must be broken down into vertically stacked hazard volumes, with heights less than the maximums shown in the table.
- d. Dimensions and nozzle data shown are taken from the FM Approved Design, Installation & Maintenance Manual (P/N 06-238, 06-239 or 06-323).
- e. 180 and 360 degree nozzles may be placed a maximum of 1'-0" (0.3m) down from the ceiling, and 180 degree nozzles may be placed a maximum of 1'-0" (0.3m) from the wall

Form No. C.2.23.01-3



3/8" (10mm) Nozzle Area Coverage		
Nozzle Type	"R" Dimensions	Ceiling Height Range
180°	22' - 9" (6.93 m)	1.0 - 16.0 (0.3 - 4.9 m)
360°	14' - 9" (4.5 m)	1.0 - 16.0 (0.3 - 4.9 m)

1/2" - 2" (15.0 - 50mm) Nozzle Area Coverage		
Nozzle Type	"R" Dimensions	Ceiling Height Range
180°	45' - 8" (13.92 m)	1.0 - 16.0 (0.3 - 4.9 m)
360°	29' - 8" (9.04 m)	1.0 - 16.0 (0.3 - 4.9 m)

#### ORDERING FORMAT "NPT" THREAD

80-036-1800	3/8" x 360° Nozzle
80-037-2210	1/2" x 360° Nozzle
80-038-2969	3/4" x 360° Nozzle
80-039-3770	1" x 360° Nozzle
80-041-5781	1 1/2" x 360° Nozzle
80-042-7500	2" x 360° Nozzle

80-044-1660	3/8" x 180° Nozzle
80-045-2090	1/2" x 180° Nozzle
80-046-2770	3/4" x 180° Nozzle
80-047-3480	1" x 180° Nozzle
80-049-5156	1 1/2" x 180° Nozzle
80-050-6875	2" x 180° Nozzle

