

## ECARO-25™ ENGINEERED NOZZLES

### DESCRIPTION

The function of the ECARO-25 Engineered Discharge Nozzle, in a fire extinguishing system, is to distribute the clean agent in a uniform, pre-determined 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 06-285 and the ECARO-25 Flow Calculation computer program).

Fike Engineered Discharge Nozzles are available in sizes of: 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" (10, 15, 20, 25, 32, 40, 50mm). Each nozzle is available in 180 and 360 degree discharge patterns.

The Discharge Nozzle size refers to the size of Schedule 40 or 80 steel pipe to which it can be connected. The nozzle discharge orifices are drilled perpendicular to the center line of the threads and discharge on a horizontal axis.

Nozzle orifices are available in a wide range of sizes to provide accurate clean agent flow results. All nozzles have been tested for their ability to discharge the clean agent under extreme conditions.

Nozzle orifice drilling must be done at the Fike factory only after "As-Built" calculations of the installed piping system(s) have been performed, using the ECARO-25 Flow Calculation computer program.

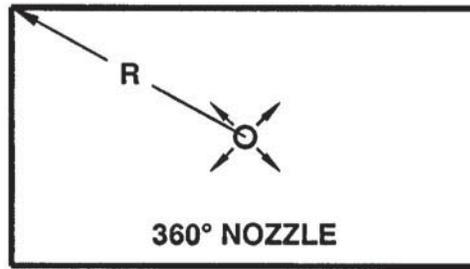
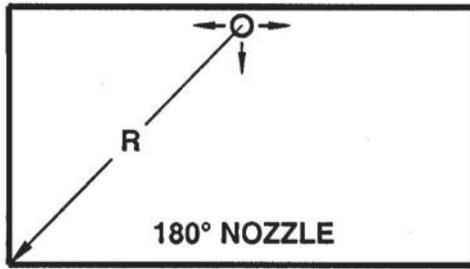
The Fike Discharge Nozzle used shall be Factory Mutual (FM) approved and Underwriters Laboratory (UL) listed.

### ARCHITECT SPECIFICATIONS

The nozzle used to disperse Clean Agent shall be a Fike Series 80 nozzle. The nozzle shall be available in 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" (10, 15, 20, 25, 32, 40, 50mm). Each size shall be available in both 180 and 360 degree dispersion patterns. The nozzle used shall have pipe threads that correspond to the nozzle size. All nozzles shall have an orifice size determined by the FM approved and UL listed ECARO-25 Flow Calculation Program. All nozzle orifice drilling shall be performed by the manufacturer.



Form No. C.2.24.01-4
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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 "BSP" THREAD**

84-015	10mm x 360° Nozzle
84-016	15mm x 360° Nozzle
84-017	20mm x 360° Nozzle
84-018	25mm x 360° Nozzle
84-019	32mm x 360° Nozzle
84-020	40mm x 360° Nozzle
84-021	50mm x 360° Nozzle

**ORDERING FORMAT "NPT" THREAD**

80-036	3/8" x 360° Nozzle
80-037	1/2" x 360° Nozzle
80-038	3/4" x 360° Nozzle
80-039	1" x 360° Nozzle
80-040	1 1/4" x 360° Nozzle
80-041	1 1/2" x 360° Nozzle
80-042	2" x 360° Nozzle

84-022	10mm x 180° Nozzle
84-023	15mm x 180° Nozzle
84-024	20mm x 180° Nozzle
84-025	25mm x 180° Nozzle
84-026	32mm x 180° Nozzle
84-027	40mm x 180° Nozzle
84-028	50mm x 180° Nozzle

80-044	3/8" x 180° Nozzle
80-045	1/2" x 180° Nozzle
80-046	3/4" x 180° Nozzle
80-047	1" x 180° Nozzle
80-048	1 1/4" x 180° Nozzle
80-049	1 1/2" x 180° Nozzle
80-050	2" x 180° Nozzle

