

ECARO-25TM Suppression System



DESCRIPTION

The function of the ECARO-25 Engineered Discharge 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, Installation & Maintenance 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", 2" (10, 15, 20, 25, 32, 40, 50 mm). 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.

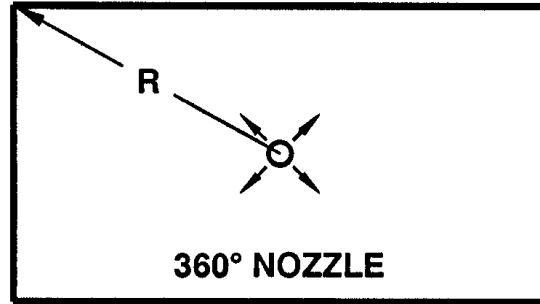
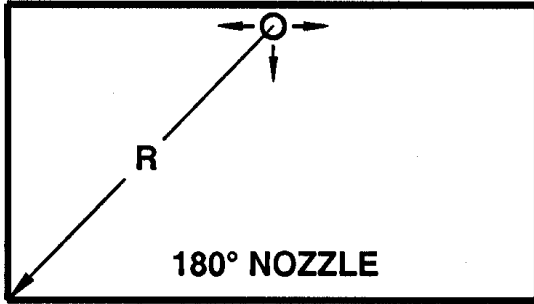
Nozzle orifices are available in a wide range of sizes to provide accurate Clean Agent flow results. All nozzles have been tested for their ability to discharge the Clean Agent under extreme conditions.

Nozzle orifice drilling must be done at the Fike factory, or other approved nozzle drill stations, **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.

ARCHITECTS SPECIFICATIONS

The nozzle used to disperse Clean Agent shall be a Fike Series 80. 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, 50 mm). 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 or an approved nozzle drilling facility.



3/8" (10mm) Nozzle Area Coverage		
Nozzle Type	Radius ft (m)	Ceiling Height Range ft (m)
180 Degree	22.9 (6.93)	1.0 to 16.0 (0.3 to 4.9)
360 Degree	14.9 (4.5)	1.0 to 16.0 (0.3 to 4.9)

1/2" - 2" (15 - 50mm) Nozzle Area Coverage		
Nozzle Type	Radius ft (m)	Ceiling Height Range ft (m)
180 Degree	45'-8" (13.92)	1.0 to 16.0 (0.3 to 4.9)
360 Degree	29'-8" (9.04)	1.0 to 16.0 (0.3 to 4.9)

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

84-030 8mm x 180° 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

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

80-043 1/4" 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