ECARO-25™ ENGINEERED NOZZLES

Data Sheet

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.

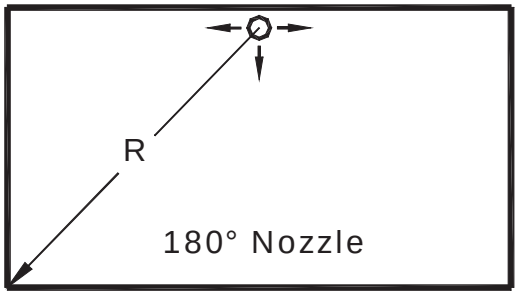
Nozzle orifice drilling must be done at the Fike factory, or other approved nozzle drill stations, only after "As-Built" calculations of the installed piping system(s) have been performed, using the ECARO-25 Flow Calculation computer program.

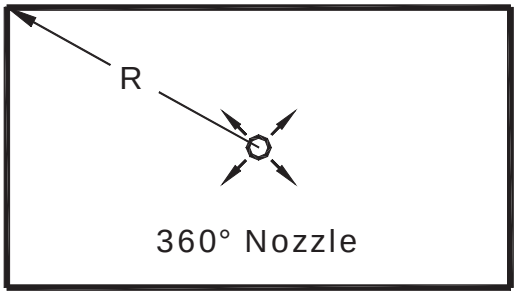
The Fike Discharge Nozzle used shall be Factory Mutual (FM) approved and Underwriters Laboratory (UL) listed.

ARCHITECTS SPECIFICATIONS

The nozzle used to disperse Clean Agent shall be a Fike Series 80 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 Calucation Program. All nozzle orifice drilling shall be performed by the manufacturer or an approved
nozzle drilling facility.

704 S. 10th Street · P.O. Box 610 · Blue Springs, Missouri 64013-0610 U.S.A. · (816) 229-3405 · (816) 229-4615 · www.fike.com





3/8" (10mm) Nozzle Area Coverage		
Nozzle Type	**"R" Dimension**	**Ceiling Height Range**
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	**"R" Dimension**	**Ceiling Height Range**
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^{o} Nozzle
84-016	15mm x 360^{o} Nozzle
84-017	20mm x 360^{o} Nozzle
84-018	25mm x 360^{o} Nozzle
84-019	32mm x 360^{o} Nozzle
84-020	40mm x 360^{o} Nozzle
84-021	50mm x 360^{o} Nozzle
84-030	8mm x 180^{o} Nozzle
84-022	10mm x 180^{o} Nozzle
84-023	15mm x 180^{o} Nozzle
84-024	20mm x 180^{o} Nozzle
84-025	25mm x 180^{o} Nozzle
84-026	32mm x 180^{o} Nozzle
84-027	40mm x 180^{o} Nozzle
84-028	50mm x 180^{o} Nozzle

ORDERING FORMAT "NPT" THREAD

84-036	3/8" x 360^{o} Nozzle
84-037	1/2" x 360^{o} Nozzle
84-038	3/4" x 360^{o} Nozzle
84-039	1" x 360^{o} Nozzle
84-040	1 1/4" x 360^{o} Nozzle
84-041	1 1/2" x 360^{o} Nozzle
84-042	2" x 360^{o} Nozzle
80-043	1/4" x 180^{o} Nozzle
84-044	3/8" x 180^{o} Nozzle
84-045	1/2" x 180^{o} Nozzle
84-046	3/4"x 180^{o} Nozzle
84-047	1" x 180^{o} Nozzle
84-048	1 1/4" x 180^{o} Nozzle
84-049	1 1/2" x 180^{o} Nozzle
84-050	2" x 180^{o} Nozzle