

Micromist®

Fike Protection Systems

Pre-Engineered Water Mist Suppression System
Architect and Engineering Specification



DESCRIPTION

The Fike Micromist system package is offered in 70 and 107 gallon (265 and 405 liter) configurations. The 70 gallon system consists primarily of one nitrogen cylinder and a water storage container. The 107 gallon system has two nitrogen cylinders and one water storage container.

The nitrogen cylinders are charged to 1850 psi (128 bar) and fitted with a forged brass valve that is actuated with a solenoid valve. The solenoid valve is fitted with a pressure switch or gauge so the pressure inside the cylinder can be monitored. When the nitrogen cylinders are actuated, the resulting air flows through a pressure regulating valve that is set at 320 psi (22 bar). This regulator is equipped with inlet and outlet gauges as required by NFPA 750.

The water storage container is not under pressure until the system is actuated. The water container utilizes a 3/4" (20mm) brass valve to control the flow of water to the system nozzles. The water container has a drain/fill valve and

a vent valve to drain the water when necessary. A safety disc is also fitted on the water container which ruptures if the pressure inside reaches a pressure greater than 500 psi (34 bar).

The Micromist suppression system comes pre-packaged on a skid produced from 3/8" (9.5 mm) thick steel plate. The water cylinder is bolted to the skid and the air cylinder(s) are mounted to the water cylinder with straps. The skid is designed so it can be easily transported with a fork lift.

SPECIFICATIONS

Part Number: 73-010 70 Gallon (265 liter) Micromist System with Pressure Gauge

73-011 107 Gallon (405 liter) Micromist System with Pressure Gauge(s)

73-001 70 Gallon (265 liter) Micromist System with Pressure Gauge and NEMA 1 & 2 Low Pressure Switch

73-002 107 Gallon (405 liter) Micromist System with Pressure Gauge and NEMA 1 & 2 Low Pressure Switch(es)

Dimensions: 107 Gallon L - 47 1/2" (1.2m)
W - 29 1/2" (0.7m)
H - 85 1/2" (2.7m)

70 Gallon L - 47 1/2" (1.2m)
W - 29 1/2" (0.7m)
H - 66 3/4" (1.7m)

Material: Steel Cylinders with Brass Valves

Paint: Nitrogen Cylinder - Red Gloss Baked Enamel
Water Cylinder - Epoxy Coated Inside, Red Gloss Baked Enamel Outside

Approvals: D.O.T. 4BA-500 Water Storage Container
D.O.T. 3AA-2300 Nitrogen Cylinder
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