

Dry Chemical Systems

A dry chemical extinguishing system consists of a fixed container of dry chemical connected by fixed piping to nozzles. The dry chemical is released either automatically or manually.

The systems usually protect flammable liquid hazards. If multipurpose dry chemical is used, a hazard containing Class A combustibles may also be protected. This is done by "total flooding" of an entire room or enclosure containing the hazard or by "local application" of the dry chemical directly onto the hazard by overhead or tankside nozzles. In either case, the extinguishing effect of dry chemical is such that a lingering ignition source can reignite the hazard almost immediately after the original extinguishment and after end of discharge.

Adequate reserve protection consisting of sprinklers or other suitable protection should generally be provided.

The dangers of dry chemical in fire-extinguishing concentrations to exposed personnel are temporary breathing difficulty and reduced visibility. In areas using total flooding systems, suitable means, such as predischage alarm, should be provided to permit evacuation of personnel. In areas using local application systems where the dry chemical is not confined, there is little hazard.

Because the dry chemical flowing through pipe consists of suspended solid particles in a gaseous medium, flow characteristics do not follow conventional fluid flow laws. However, the characteristics have been determined experimentally. System design is a specialized matter, and it is very important that the recommended limitations regarding pipe size, length, symmetry and arrangement as well as nozzle spacing and location be followed carefully.

Plans and all details of a proposed system should be submitted to FM Global for review and acceptance prior to installation.

Models ILP ABC-250, ILP ABC-500, ILP ABC-1000, and ILP ABC-2000

System Designation:	Models ILP ABC-250, ILP ABC-500, ILP ABC-1000, and ILP ABC-2000 Automatic Indirect Dry Chemical Fire Detection and Extinguishing Systems
System Type:	Pre-engineered for the protection of Class B flammable liquid hazards
Agent Identification:	Multi-purpose dry chemical (monoammonium phosphate)
Ambient Temperature Installation Range:	0 to 130°F (-18 to 54°C)
Maximum Nozzle Heights:	ILP ABC-250: 6 ft (1.8 m)
	ILP ABC-500, ILP ABC-1000, and ILP ABC-2000: 9 ft (2.7 m)
Maximum Area of Coverage per Unit:	ILP ABC-250: 31.36 ft ² (2.91 m ²)
	ILP ABC-500: 42.25 ft ² (3.93 m ²)
	ILP ABC-1000: 84.5 ft ² (7.85 m ²)
	ILP ABC-2000: 169 ft ² (15.7 m ²)
Design, Installation, Operation, and Maintenance Manual:	Design, Installation, Operation, and Maintenance Manual for Pre-Engineered Automatic Indirect Dry Chemical Extinguisher Unit, part number 800010, rev03, May 2011
Approved Filling Stations:	Firetrace International LLC, 15690 North 83rd Way, Suite B, Scottsdale, AZ 85260
	Firetrace International LLC, 12 Fairlawn Enterprise Park, Bonehurst Rd, Salfords, Redhill, Surrey RH1 5GH, United Kingdom

Company Name:	Firetrace International LLC
Company Address:	15690 N. 83rd Way, Suite B, Scottsdale, Arizona 85260, USA
Company Website:	http://www.firetrace.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved