

# *KIDDE IND Dry Chemical Fire Suppression Systems*

*Maximum Fire-Killing Power for Industrial Applications*



# *Rugged Kidde IND Systems Are Recommended For All Types of Industrial Fire Protection...*



## *Processes Involving Flammable Liquids*

### ◀ *Dip Tanks*

- Industrial/Automotive Paint Spray Booths
- Coating Operations
- Quench Tanks



## *Electrical/Mechanical Rooms*

### ◀ *Boiler Rooms*

- Switchgear Rooms
- Generator Rooms
- Furnace Rooms



## *Flammable Liquid Storage Areas*

### ◀ *Flammable Liquid Storage*

- Paint Mixing Areas
- Spill Containment Dikes
- Bulk Storage



## *Specialty Hazards*

### ◀ *Modular HazMat Storage Facilities*

- Exhaust Ducts
- Environmental Storage Facilities
- Machinery Spaces

## *KIDDE IND Dry Chemical Fire Suppression Systems. . . Automatic, 24-Hour Protection for Industrial Applications.*

Could you afford to have your production line shut down due to a fire? Is there room in your operating budget to replace machinery and facilities damaged by fire? If your company is typical of today's high-productivity, cost-conscious facilities, the answer is "no, we can't have our operation interrupted by any type of fire." That's why a Kidde IND Dry Chemical System is your best choice for protection of any industrial process or machinery where flammable liquids or hazardous materials are involved.

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### *Versatile Fire Suppression*

Kidde IND Systems use either Class ABC or Class BC dry chemical to suppress fire. Pound for pound, dry chemical suppresses more fire than any other agent, providing both rapid suppression and protection against fire re-ignition. Our sodium bicarbonate-based dry chemical is more effective than water on Class B (flammable liquid) and Class C (electrical) fires. ABC dry chemical also suppresses Class A (wood, paper, cloth) fires. Both are environmentally safe, non-toxic and economical to use in both initial installations and recharge situations. No wonder dry chemical is preferred for more applications throughout industry than any other agent.

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### *Quick Response Minimizes Fire Damage*

Kidde IND Systems are designed to sense fires quickly, sounding alarms to warn personnel in the area and discharging dry chemical on the source of the fire. All these actions literally occur in seconds, before the fire has the opportunity to grow in intensity or spread to other areas of the facility. For your peace of mind, Kidde IND Systems offer the surety of automatic fire protection – whether or not personnel are present – 24 hours a day.

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### *Costs Less To Install and Maintain*

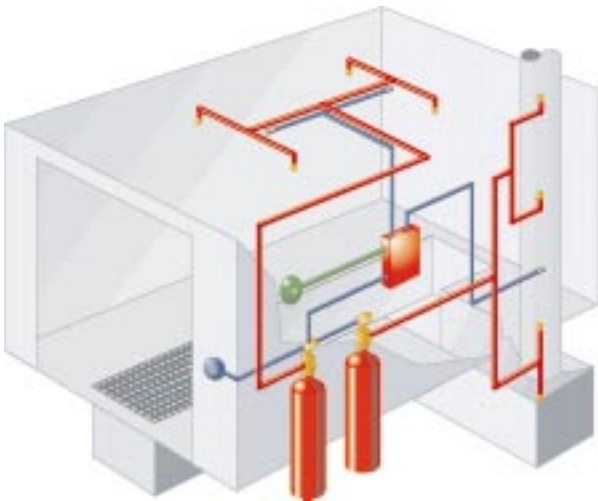
Backed by more than 20 years of industrial experience, Kidde engineers have perfected a system to meet the needs of today's facility, plant and maintenance managers. We've designed the Kidde IND System to be like your facility's environment, rugged and reliable, yet compact. Our pre-engineered concept saves you money in both hardware and installation costs, while offering precise protection for a wide variety of industrial fire hazards. Finally, the recharging of a Kidde IND System is fast and economical: a real bonus for anyone with an eye on their maintenance budget.

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### *Proven Kidde Performance*

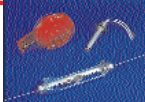
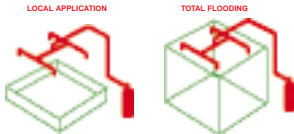
Kidde IND Systems protect more industrial hazards in more types of plants worldwide than any other brand. So it stands to reason that we have a better understanding of how to specify the right system for your application, install it with a minimum amount of disruption to operations, and keep your Kidde IND System in perfect working condition through our global network of Kidde Distributors. It's exactly the performance you'd expect from the leader in fire protection.

## The Kidde Pre-Engineered Approach to Fire Protection. Precise. Effective. Affordable.



### Local Application or Total Flooding Designs

Kidde IND Systems are available in two basic configurations. In a **local application** system, the nozzles are positioned either overhead or tankside to deliver the dry chemical agent directly onto the hazard being protected. A **total flooding** system, recommended for protection of enclosed room and processes, rapidly "floods" the protected area with dry chemical agent to create an atmosphere that will not support combustion but is not hazardous to personnel. Your Kidde Distributor can help you select the proper design approach for each of your applications.



### Three Choices of Fire Detection

Depending upon your hazard, one of three Kidde detection methods will best suit your needs. **Mechanical detection** uses fusible link detectors to provide reliable performance at low cost. **Electric detection** offers enhanced sensitivity and the design versatility of thermal, smoke or optical detectors for compatibility with just about any type of hazard environment. **Pneumatic detection** combines high sensitivity with no-spark operation necessary for explosion-sensitive applications or where electrical power for system operation is not available.



### Single or Multiple System Control

If you have one hazard area to protect, the Kidde SCORPIO™ Control Panel gives you microprocessor-based reliability in a fully supervised suppression release and alarm output system. If you're controlling multiple Kidde fire alarm or suppression systems, the smart choice is the Kidde PEASYS™ Control System, our latest detection technology that uses a "distributed intelligence" concept to offer more detection and alarm capability, faster response time, more immunity to nuisance alarms and lower maintenance costs.



### The Right Cylinder Sizes

Your Kidde Distributor can choose from three sizes of agent storage cylinders using ABC or BC dry chemical – Kidde IND 21/25 (ABC/BC), Kidde IND 45/50 (ABC/BC) or Kidde IND 70/75 (ABC/BC) – to design the precise system that best meets your fire protection requirements while conserving hardware and dry chemical agent cost.

### Superior Coverage

Due to our advanced nozzle design, Kidde IND Systems cover more volume of hazard area with less dry chemical agent than any other brand of total flooding system. Dry chemical is discharged both radially and downward to maximize coverage. What this means is that we can protect your application using a minimum number of agent storage cylinders. Less hardware means a lower installed cost.



### Listed and Approved

Kidde IND Systems, with ABC or BC dry chemical agents, are listed by Underwriters Laboratories, Inc., Underwriters Laboratories of Canada and approved by Factory Mutual for operating in temperature ranges from -40°F to 120°F.

Max. Coverage per Nozzle				TOTAL CYLINDER COVERAGE			
				2 Nozzles – IND 21/25		4 Nozzles – IND 45/50	
Hazard Height (Ft.)	Longest Side (Ft.)	Area (Ft. <sup>2</sup> )	Volume (Ft. <sup>3</sup> )	Area (Ft. <sup>2</sup> )	Volume (Ft. <sup>3</sup> )	Area (Ft. <sup>2</sup> )	Volume (Ft. <sup>3</sup> )
12 or Less	15	112.5	1350	225	2700	450	5400
13	15	104.0	1350	208	2700	416	5400
14	15	96.5	1350	193	2700	386	5400
15	15	90.0	1350	180	2700	360	5400
16	15	84.5	1350	169	2700	338	5400
17	15	79.5	1350	159	2700	318	5400
18	15	75.0	1350	150	2700	300	5400
19	15	71.0	1350	142	2700	284	5400
20	15	67.5	1350	135	2700	270	5400

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## The Engineering Specification

The fire suppression system for (INSERT HAZARD AREA DESCRIPTION) shall be a Kidde Model IND Industrial Dry Chemical fire suppression system. The hardware shall be manufactured by Kidde, 400 Main Street, Ashland, MA USA. The dry chemical agent shall be [CHOOSE ONE (ABC, monoammonium phosphate or BC, sodium bicarbonate)]. The dry chemical agent shall be stored in steel cylinders meeting DOT requirements and shall be painted white. The cylinders shall be of the stored pressure type with a maximum pressure of 360 psig @ 70°F. Cylinder valves must be equipped with a pressure gauge. The design concept shall be of the pre-engi-

neered type with piping parameters and discharge nozzle types pre-determined by the fire suppression manufacturer. No hydraulic calculations shall be used to accomplish the piping design. The design application for this hazard shall be [CHOOSE ONE (Total Flooding or Local Application)]. The fire suppression equipment shall be capable of a minimum storage temperature of -40°F (-40°C). The design, piping and installation shall be in accordance with NFPA 17 and the Kidde Industrial Dry Chemical Instruction Manual. Acceptance of the finished system shall be in accordance with NFPA 17 and the Kidde Instruction Manual.

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## Our Quality is Certified

Kidde IND Dry Chemical Fire Suppression Systems are made in America in accordance with ISO 9001 certified quality standards and installed and serviced by Kidde Distributors worldwide. When you've specified "Kidde," you've chosen the world's most respected name in fire protection.



*Kidde IND Systems are Available From...*

This literature is provided for informational purposes only. KIDDE assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to work correctly. If you need more information on this product, or if you have a particular problem or question, contact KIDDE, Ashland, MA 01721: Tel: (508) 881-2000.