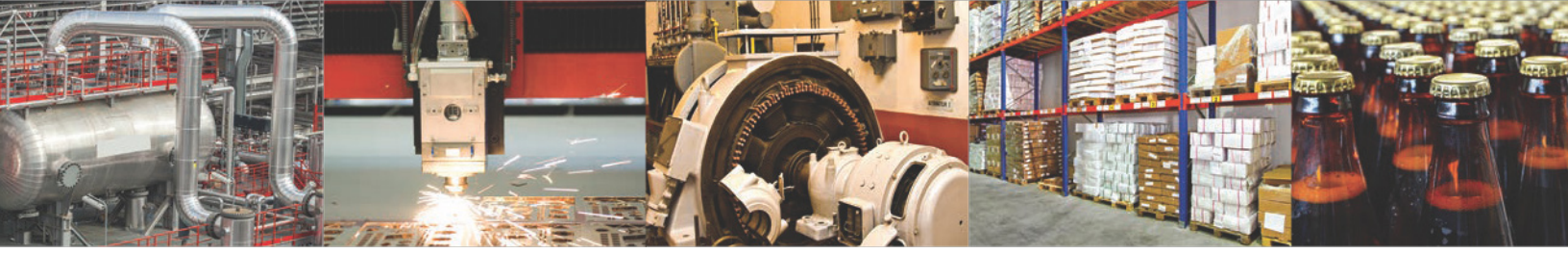


DISTRIBUTOR PLAYBOOK 3.0

A COMPREHENSIVE GUIDE TO KIDDE FIRE SYSTEM PRODUCTS, COMPANY POLICIES AND SERVICES AND REGIONAL CONTACT INFORMATION.

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Kidde Fire Systems

A Global Leader in Specialized Fire Protection



we are **KIDDE FIRE SYSTEMS.**

One united company. Advancing fire protection.



Kidde Fire Systems is a world leader in special hazard fire protection system solutions. Our products save people and property from the dangers of fire.

Founded by Walter Kidde in 1917, our broad product offering and design expertise have been protecting assets worldwide for over 100 years. Our products, combined with our highly skilled worldwide installation and service network, allow us to provide our customers with a total system solution.

Today, **Kidde Fire Systems** incorporates the legacy brands Chemetron Fire Systems and Fenwal Protection Systems. Operating as one united company, **Kidde Fire Systems** offers its customers important competitive advantages with our comprehensive range of proven fire protection technologies for the diverse needs of commercial and industrial facilities. Our portfolio includes a wide selection of suppression controls, a variety of accessories and a remote monitoring-site aide connectivity platform.

From mission-critical assets in power generation plants to data centers and from power transmission sub-stations to the kitchen at your favorite local restaurant...it's likely that **Kidde Fire Systems'** products are on the job. Our customers trust us for protection from everyday fire hazards because we are experts in our field. That trust is reinforced by the quality we instill in everything we do, from manufacturing fire and safety systems to providing system design and technical support.

Kidde Fire Systems is the Smart Choice when early fire detection and suppression needs are especially demanding.

The Kidde Fire Systems network of authorized distributors offers the following services:

HAZARD ANALYSIS

From a data center to an engine room, our global network of distributors have the right experience and tools to conduct a professional analysis of your assets and processes to develop the most appropriate fire protection solution.

SYSTEM DESIGN AND TECHNICAL SUPPORT

Kidde Fire Systems distributors are trained to design custom fire protection solutions using proprietary software that meets applicable codes and standards. We also have an Applications Engineering team that is available to assist our distributors with system designs whenever necessary.

INSTALLATION

Kidde Fire Systems distributors provide timely installation of our detection, control and suppression systems. By being responsive to your needs, our distributors will complete their work with the least possible interruption to your business operations.

MAINTENANCE AND EMERGENCY SERVICES

Kidde Fire Systems distributors offer the full spectrum of important post-installation services, ranging from code-compliant testing and maintenance to 24-hour emergency service.

OUR PRODUCTS

Kidde Fire Systems markets a range of products to suit special hazard fire protection challenges in industries ranging from commercial kitchens to power generation plants to mission critical facilities. Each application requires study and careful consideration of unique demands for product performance.

Unlike structural fire protection in which conventional methods such as smoke detectors, manual fire alarms, water sprinklers, and smoke control systems are used, every special hazard has its own unique set of requirements. The method for protecting a museum is very different than the approach used to detect and suppress a fire in the engine compartment of a shipping tanker used in the marine industry.

Kidde Fire Systems offers a unique approach to fire protection for these special hazards — integrated total system solutions. We offer a complete fire protection package that starts with early fire detection and ends with quick fire suppression. The detection systems are on-guard 24 hours a day. When a fire is detected, sophisticated control equipment is deployed to take specific actions like turning off power to sensitive equipment, redirecting or turning off ventilation, notifying personnel and releasing a wide variety of application specific fire suppression agents. From our WHDR™ Wet and IND™ Dry Chemical Systems to our ECS-500™ and ADS™ Clean Agent Solutions utilizing HFC-227ea and our proprietary Fluoro-K™ agent to our Natura™ Inert Gas system and our High Pressure and Low Pressure CO2 platforms, Kidde Fire Systems has your fire protection needs covered.



Clean Agent Fire Suppression

NATURA™ Inert Gas System

Flexible. Efficient. Sustainable.

The Kidde Fire Systems Natura™ Inert Gas System provides flexibility with your choice of four agents, efficient installation and overall lower total cost of ownership driven by reduced material, installation and labor costs, as well as a more economical refill cost after a discharge.

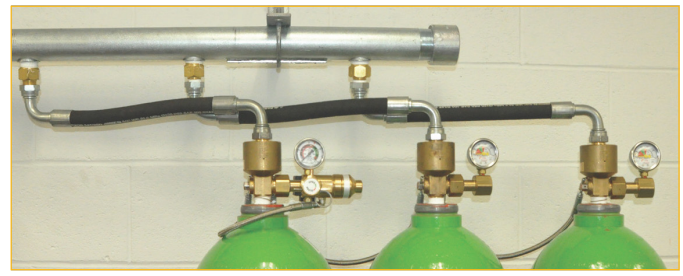
Compared with other high pressure inert gas systems, our series 400 valve regulates flow and pressure to allow the use of Schedule 40 piping for many applications. Installation time and labor costs are further reduced with the use of pre-fabricated manifolds, quick-connect actuation hoses and electrical connectors.



Quick-Connect Actuation Hoses



Pre-Fabricated Manifolds



System Benefits:

Flexibility

- Choice of four NFPA and ISO approved agents to suit regional re-charge conditions and customer specifications
- Wide flexibility when selecting storage area as cylinders can be stored hundreds of feet from hazard
- Argon may be used for application-specific Class D materials such as titanium dust, magnesium, etc.
- Suitable for low temperature applications
- Suitable for rooms that are hard to seal and spaces such as museums and labs

Lower Material Costs

- Pressure and flow regulating valve allows for Sch. 40 pipe
- Actuation of up to 60 cylinders is accomplished with a single release unit mounted on primary cylinder so there is no need for separate pilot cylinders
- Selector valves protect multiple hazards with a single cylinder bank, reducing overall system cost

Lower Installation, Labor and Refill Costs

- Several sizes of pre-fabricated manifolds with pre-installed check valves discharge hose connections ready
- Fast and easy installation process using quick connect actuation hoses and electrical connections
- Very economical agent refill cost after a discharge

System Features:

- Cylinders available in 300 bar and 200 bar pressure options
- Cylinders available in 80 liter and 140 liter¹ capacity options
- Nozzles available with 360 and 180 degree discharge patterns
- Cylinders suitable for storage at temperatures from -4° to 130°F (-20° to 54°C) FM Approved
- Selector valve sizes range from 1” to 4” (25 to 100 mm nominal)
- 300 bar option reduces the cylinder quantity compared to 200 bar
- Truly Green agents (zero ozone depletion and zero global warming)
- Non-conductive – suitable for electronic equipment protection
- Clean Agent – no clean-up of agent required after discharge

Why Choose an Inert Gas System?

Safe for the Environment. Pure Inert gases and the constituents of the blended versions are found naturally in the atmosphere. These gases are environmentally responsible, having an ozone depletion potential (ODP) of zero and a global warming potential (GWP) of zero. At room temperature inert gases are colorless and odorless.

Safe for Human Exposure. In occupied areas, people can breathe Inert gas blends at extinguishing concentrations below 52% for very brief periods of time during egress. There are no toxicological factors associated with the use of Inert gases as they will not decompose or produce any by-products when exposed to a flame.

Agent	Composition	Suitable for Fire Classification	Advantage	Approvals
IG-100	Pure Nitrogen	A, B, C	Ease of refill	LPCB, FM
IG-01	Pure Argon	A, B, C, D ₂	Suitable for Class D fires	LPCB
IG-55	Argonite [®] - a blend of Nitrogen & Argon	A, B, C	Popular in EU	LPCB, FM
IG-541	Blend of Nitrogen, Argon & CO ₂	A, B, C	Use when specified	LPCB

1 Available outside of North American market
2 Per approval of AHJ

Applications:

- Art Galleries and Museums
- Control Rooms
- Electric Switch Rooms
- Financial Centers and Banks
- Medical Facilities
- Petrochemical Installations
- Pharmaceutical Facilities
- Rare Book Libraries
- Record Storage Facilities
- Telecommunication Centers

A Complete Line of Fire Protection Solutions is Available:

We offer a comprehensive selection of fire protection solutions to complement the Natura™ Inert Gas System, including:

- Conventional and addressable fire suppression control panels
- Conventional and intelligent heat and smoke detectors
- Full range of fire alarm notification appliances
- IntelliSite™ cellular-based, remote monitoring systems



ADS™ with Kidde Fluoro-K™ Fire Suppression Agent

Fire Suppression System

Ideal for Long Distances and Complex Piping Networks

The Kidde Advanced Delivery System (ADS™) type Clean Agent Suppression System using Fluoro-K improves the performance of standard 360 psi (25 bar) or 500 psi (35 bar) systems by using a Nitrogen driver to propel the agent through the piping network. This innovation provides better coverage, greater nozzle heights, smaller diameter pipe and longer pipe runs than a standard clean agent suppression system.

ADS System with Fluoro-K Benefits:

- Provides economical protection of multiple enclosures when used with directional valves
- If space is not restricted, placement in or near hazard area allows for smallest possible pipe diameter to be used, resulting in installation cost savings
- Increased flow rates allow for better coverage of larger hazard areas

ADS System with Fluoro-K Features:

- Cylinders can be located up to 200 feet from hazard area
- Nozzle can be placed at a height of up to 18'6"
- Nozzle coverage area of up to 42' 6"x 42'6"



Why Choose an ADS System?

Rapid-Response. In seconds, the ADS System discharges the Fluoro-K suppression agent into the hazard area resulting in less damage, fewer repair costs and reduced downtime compared to water-based system discharge.

Minimizes Damage. Removed from the hazard area by ventilation, the clean agent allows virtually immediate return to “business as usual” without the interruption of a lengthy clean-up or the expense of damage to assets from suppressant residue.

People-Safe. Clean agents are non-toxic, when used in compliance with NFPA Standard 2001, and do not impair breathing or obscure vision in an emergency situation, providing an added measure of safety for personnel.

Environmentally-Responsible. With zero Ozone Depletion Potential, low atmospheric lifetime, and speedy suppression performance, clean agents offer low environmental impact and reduce the potentially devastating atmospheric pollutants of an uncontrolled fire.

Laboratory-Tested. Kidde Fluoro-K has been tested and found to be effective on a wide range of Class A surface fire (wood, paper and cloth), Class B (flammable liquids) and Class C (electrical) fuels.

Globally-Accepted. Kidde Fluoro-K agent meets the standards of Underwriters Laboratories, FM Approvals, the National Fire Protection Standard NFPA-2001, and the U.S. EPA SNAP program.

Kidde Stamp of Approval. Kidde quality engineers and chemical experts working alongside third party laboratories have subjected the FK-5-1-12 agent to rigorous testing prior to acceptance — so you can be assured of receiving the same high-quality fire suppression delivery system platforms that we have shipped to you in years past and that you expect to receive from us going forward.

Typical applications protected by an ADS with Fluoro-K Clean Agent System:

- Health Care Facilities
- Internet Hosting Facilities
- Larger Manufacturing Complexes
- Multi-level Sites
- Recording Studios
- Telecommunications Facilities

Integrated ADS with Fluoro-K Clean Agent System components:

- Control Unit
- Smoke Detection
- Heat Detection
- Suppression Cylinders
- Notification Devices
- Manual Pull Stations

ADS System Approvals & Listings:

- UL Listed
- FM Approved
- Other marine- and land-based approvals in process

Fluoro-K Component Approvals & Listings:

- cULus Listed
- FM Approved



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ADS™ with Kidde HFC 227ea Fire Suppression Agent

Fire Suppression System

Ideal for Long Distances and Complex Piping Networks

The Kidde Advanced Delivery System (ADS™) type Clean Agent Suppression System using HFC 227ea improves the performance of standard 360 psi (25 bar) or 500 psi (35 bar) systems by using a Nitrogen driver to propel the agent through the piping network. This innovation provides better coverage, greater nozzle heights, smaller diameter pipe and longer pipe runs than a standard clean agent suppression system.

ADS System with HFC 227ea Benefits:

- Provides economical protection of multiple enclosures when used with directional valves
- If space is not restricted, placement in or near hazard area allows for smallest possible pipe diameter to be used, resulting in installation cost savings
- Increased flow rates allow for better coverage of larger hazard areas

ADS System with HFC 227ea Features:

- Cylinders can be located up to 200 feet from hazard area
- Nozzle can be placed at a height of up to 16'
- Nozzle coverage area of up to 46' X 56'



Why Choose an ADS System?

Rapid-Response. In seconds, the ADS System discharges the HFC 227ea suppression agent into the hazard area resulting in less damage, fewer repair costs and reduced downtime compared to water-based system discharge.

Minimizes Damage. Removed from the hazard area by ventilation, the clean agent allows virtually immediate return to “business as usual” without the interruption of a lengthy clean-up or the expense of damage to assets from suppressant residue.

People-Safe. Clean agents are non-toxic, when used in compliance with NFPA Standard 2001, and do not impair breathing or obscure vision in an emergency situation, providing an added measure of safety for personnel.

Environmentally-Responsible. With zero Ozone Depletion Potential and speedy suppression performance, clean agents offer low environmental impact and reduce the potentially devastating atmospheric pollutants of an uncontrolled fire.

Laboratory-Tested. Kidde HFC 227ea has been tested and found to be effective on a wide range of Class A surface fire (wood, paper and cloth), Class B (flammable liquids) and Class C (electrical) fuels.

Globally-Accepted. Kidde Fluoro-K agent meets the standards of Underwriters Laboratories, FM Approvals, the National Fire Protection Standard NFPA-2001.

Typical applications protected by an ADS with HFC 227ea Clean Agent System:

- Health Care Facilities
- Internet Hosting Facilities
- Larger Manufacturing Complexes
- Multi-level Sites
- Recording Studios
- Telecommunications Facilities

Integrated ADS with HFC 227ea Clean Agent System components:

- Control Unit
- Smoke Detection
- Heat Detection
- Suppression Cylinders
- Notification Devices
- Manual Pull Stations

ADS System Approvals & Listings:

- UL Listed
- FM Approved
- Other marine- and land-based approvals

HFC 227ea Component Approvals & Listings:

- cULus Listed
- FM Approved



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ECS-500™ with Kidde Fluoro-K Fire Suppression Agent

Fire Suppression System

Optimize cylinder storage location for flexible and cost-effective installation

The Kidde ECS-500™ type Clean Agent Suppression System using Fluoro-K provides superior performance compared to standard 360 psi (25 bar) systems. The higher storage pressure of 500 psi (35 bar) enables improvement of agent travel distance for applications where ADS™ performance levels are not required. Now you have the flexibility of a mid-tier solution to meet application size, design requirements and the client's budget.

ECS-500 System Benefits:

The ECS-500 system provides all the benefits of the standard ECS system with added advantages that provide improved system design flexibility and reduced installation and material costs:

- New 1,100 lb. cylinder reduces cylinder quantities and installation time required, while providing enough agent to cover up to a 27,000 cubic feet area with a single cylinder
- Increased system pressure allows for longer pipe runs and use of smaller pipe diameters
- Provides flexibility to remotely locate cylinder storage area more than twice the distance from the hazard area when compared to 360 psi/25 bar systems

ECS-500 System Features:

- A wide range of filling capacities from 6 lbs. to 1,100 lbs.
- Fire protection of up to 27,000 cubic feet with a single cylinder
- Provides economical protection of multiple enclosures when used with directional valves



Why Choose the ECS-500 Clean Agent System with Fluoro-K?

Rapid-Response. In seconds, the ECS System discharges the suppression agent into the hazard area resulting in less damage, fewer repair costs and reduced downtime compared to a standard code-compliant sprinkler system.

Minimizes Damage. Removed from the hazard area by ventilation, the agent allows a virtually immediate return to “business as usual” without the interruption of a costly clean-up and the expense of damage to assets from residue.

People-Safe. The agent is non-toxic, when used in compliance with NFPA Standard 2001, and does not impair breathing or obscure vision in an emergency situation, providing an added measure of safety for personnel.

Environmentally-Responsible. With a zero Ozone Depletion Potential, a low atmospheric lifetime, and its rapid suppression performance, the agent not only offers low environmental impact, but reduces the potentially devastating atmospheric pollutants of an uncontrolled fire.

Laboratory-Tested. Kidde Fluoro-K has been tested and found to be effective on a wide range of Class A surface (wood, paper and cloth), Class B (flammable liquids) and Class C (electrical) fires.

Globally-Accepted. Kidde Fluoro-K agent meets the standards of Underwriters Laboratories, FM Approvals, the National Fire Protection Standard NFPA-2001, and the U.S. EPA SNAP program.

Kidde Stamp of Approval. Kidde quality engineers and chemical experts working alongside third party laboratories have subjected the FK-5-1-12 agent to rigorous testing prior to acceptance – so you can be assured of receiving the same high-quality fire suppression delivery system platforms that we have shipped to you in years past and that you expect to receive from us going forward.

Typical Applications Protected by an ECS-500 Clean Agent System:

- Bank Vaults
- Battery Backup Rooms
- Clean Manufacturing Facilities
- Data Processing Centers
- Document Storage
- Process Control Rooms
- Simulators

Integrated ECS-500 Clean Agent System Components:

- Control Unit
- Smoke Detection
- Heat Detection
- Suppression Cylinders
- Notification Devices
- Manual Pull Stations

ECS-500 System Approvals & Listings:

- cULus Listed
- FM Approved
- Other marine- and land-based approvals in process

Fluoro-K Component Approvals & Listings:

- cULus Listed
- FM Approved




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 **Kidde**
Fire Systems

Clean Agent

ECS™ 360 psi Fire Suppression System

Proven. Effective. Reliable.

Fire Protection that's Engineered Clean and Safe for Vital Facilities

Equipment and processes are vital to the success of all commercial endeavors. Consider the ramifications of a fire in these critical areas. Smoke or soot contamination, water damage, destroyed equipment and idle process lines could force your business offline and out of competition. The Kidde Fire Systems ECS™ 360 psi Suppression System detects and extinguishes fires in seconds, safeguarding your people, property and bottom line, while maintaining business continuity.

ECS 360 psi System Benefits:

Active on Fire, Safe for People. ECS 360 psi Suppression System combines the benefits of clean agent systems and active fire protection with people-safe, environmentally-responsible performance

The Right Clean Agent. A range of Clean Agent discharge as gases, leaving no residue to damage sensitive equipment or require costly clean-up

The Right Fire Suppression System. Designed to fully discharge the clean fire suppression agent into a protected area within 10 seconds, ensuring the system extinguishes a fire quickly

Fully Integrated System. Kidde Fire Systems offers a complete fire protection system that is designed, manufactured, installed and serviced by one company



Why Choose an ECS 360 psi Clean Agent System?

Rapid-Response. In seconds, not minutes, the ECS 360 psi System discharges the suppression agent into the hazard area providing the fastest fire protection available. This results in less damage, fewer repair costs and reduced downtime.

Damage-Free. Removed from the hazard area by ventilation, ECS 360 psi Clean Agents allow a virtually immediate return to “business as usual” without the interruption of a lengthy clean-up or the expense of damage to assets from residue.

People-Safe. ECS 360 psi Clean Agents are non-toxic, when used in compliance with NFPA Standard 2001, and do not impair breathing or obscure vision in an emergency situation, providing an added measure of safety for personnel.

Environmentally-Responsible. With a zero Ozone Depletion Potential, a low atmospheric lifetime, and its rapid suppression performance, ECS 360 psi Clean Agents offer low environmental impact and reduce the potentially devastating atmospheric pollutants of an uncontrolled fire.

Laboratory-Tested. ECS 360 psi Clean Agents have been tested and found to be effective on the widest possible range of Class A surface fire (wood, paper and cloth), Class B (flammable liquids) and Class C (electrical) fuels.

Globally-Accepted. Used in more than 70 countries around the world, ECS 360 psi Clean Agents meet the standards of Underwriters Laboratories, FM Approvals, the National Fire Protection Association (2001 Standard), the U.S. EPA SNAP program and most global approval authorities.

Approvals and Listings:

- UL Listed
- FM Approved
- USCG Approved

Typical Applications Protected by an ECS 360 psi Clean Agent System:

- Bank Vaults
- Battery Backup Rooms
- Clean Manufacturing Facilities
- Data Processing Centers
- Document Storage
- Hazards up to 30,000 cubic feet (850 cubic meters)
- Process Control Rooms
- Simulators

Integrated ECS 360 psi Clean Agent System Components:

- Control Unit
- Smoke Detection
- Heat Detection
- Suppression Cylinders
- Notification Devices
- Manual Pull Stations

Kidde Fire Systems Clean Agents:

- HFC-227ea



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HP CO₂ Fire Suppression System

Fast Fire Protection for Challenging Hazards

Effective and Reliable Suppression

Flammable materials and vapors present a significant risk of fire for many industrial processes and environments. The Kidde Fire Systems High-Pressure (HP) Carbon Dioxide (CO₂) Suppression System was designed to provide complete fire protection for a wide range of challenging applications from printing presses and generator enclosures to dip tanks and commercial fryers. The Kidde Fire Systems HP CO₂ system delivers clean, dependable suppression in seconds, greatly reducing the loss of assets, productivity and revenue associated with a fire-related business interruption.

The Kidde Fire Systems HP CO₂ System utilizes highly sophisticated electric and/ or pneumatic detection units which sense fire at its inception, immediately alerting the control system. The Control Panel initiates the release of CO₂ from the system cylinders. The suppressant is delivered through a fixed piping network with specially designed nozzles; providing rapid, automatic fire protection around the clock.

The Kidde Fire Systems HP CO₂ is ideal for industrial processes where flammable materials and vapors present a potential hazard. For this reason, it is essential to have sufficient fire protection on site. The Kidde Fire Systems HP CO₂ System, designed specifically for the hazard and operated automatically, assures immediate detection and rapid suppression.

HP CO₂ System Features:

- Damage-Free Fire Suppression Reduces Loss
- Design Versatility with Three System Configurations
 - » Total Flooding
 - » Local Application
 - » Local Hose Line
- Rapid Response — Discharges in Seconds
- Fights Surface or Deep-Seated Fires



Why Choose an HP CO2 System?

Superior Suppression. Carbon dioxide is a colorless, odorless, electrically-nonconductive gas whose density is approximately 50% greater than air. A Kidde Fire Systems HP CO2 System suppresses fire by providing a blanket of heavy gas that absorbs heat from the fire and reduces the oxygen content of the atmosphere to a point where combustion becomes impossible.

Damage-Free. A naturally-occurring atmospheric element, carbon dioxide dissipates into the air allowing an almost immediate return to "business as usual" without the interruption of a costly clean-up and the expense of damage to assets from suppressant residue. This results in fewer repair costs and reduced downtime.

Design Versatility. Because carbon dioxide is an ideal suppressant for a wide variety of industrial applications, Kidde Fire Systems offers three system configurations to efficiently protect different hazard types: Total Flooding, ideal for enclosed hazard areas, Local Application, used to protect a specified hazard area in an open floor plan, or a Local Hose Line, cost effective protection for fighting smaller fires throughout a hazard.

Kidde Fire Systems Quality. At Kidde Fire Systems, we know a fire-related business interruption can keep your company from being competitive in a global market. We are committed to researching, developing and providing the most advanced fire protection technology and best customer service in the industry. We understand the marketplace demands an "up and running" business world around the clock. We are dedicated to keeping industry "in business" by keeping fires out.

Typical Applications Protected by an HP CO2 System:

- Flammable Liquid Storage Areas
- Marine Applications
- Quench and Dip Tanks
- Large Commercial Fryers
- Engine and Electrical Rooms
- Spray Booths and Paint Lockers
- Turbine Generators
- Printing Presses
- Rolling Mills
- Dust Collectors
- Industrial Ovens
- Mixing Operations

Local Applications for an HP CO2 System:

- Modular HazMat Storage Facilities
- Exhaust Ducts
- Machinery Spaces
- Environmental Storage Facilities

Approvals & Listings:

- UL Listed
- FM Approved
- USCG Approved



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CARDOX® LP CO₂ Fire Suppression System

Plain and Simple

The Kidde Fire Systems CARDOX® Low-Pressure (LP) Carbon Dioxide (CO₂) System is a cost-effective solution when used to protect areas that require multiple suppression cycles, expansion capabilities, numerous hazards or more than 5000 lbs of CO₂.

CO₂ is an odorless, colorless, inert gas that extinguishes fire primarily by diluting the oxygen that supports combustion. It is applied by either the "total flooding" or "local application" method. CO₂ is not recommended for normally occupied spaces, except when other means of fire protection are not effective.

Total flooding delivers CO₂ into an enclosure until the fire is extinguished. For open hazards, the CO₂ local application method blankets the hazard extinguishing the flames and cooling the hazard. In "total flooding", the enclosure of the hazard protected is flooded to a proper concentration. In "local application", CO₂ is directly applied in the proper amount at the rate required to cover the protected hazard.

CARDOX LP CO₂ System Benefits:

- Utilizes well established safety means to minimize risks to personnel
- CO₂ is fast, efficient, cost-effective and adaptable for a wide range of hazards
- Multi-hazard, high-risk protection can be designed to provide automatic, simultaneous discharge for a variety of hazards and configurations
- Non-damaging to property and electrically non-conductive
- Bulk low-pressure CO₂ storage units are suitable for indoor or outdoor placement



Why Choose Kidde Fire Systems?

We are a leader in the fire protection industry. We have innovated many products and extinguishing system design techniques. We offer High-Pressure CO₂, CARDOX Low-Pressure CO₂ and ECS Clean Agent fire suppression systems. Our full line of conventional and addressable electronic control panels finish the package to provide a complete system solution.

Our network of certified personnel and best-in-class distributors have the training, experience and technical skills to provide you with all of the services needed to keep your property protected. We offer the following services: application engineering; inspection and testing; emergency repairs; hazard analysis; NFPA upgrades; safety, maintenance and operation site procedure; venting analysis; room integrity testing and more.

CARDOX LP CO₂ Features:

Fast. Within seconds, CO₂ penetrates the entire hazard area to smother the fire before it can develop into a costly event.

Economical. Low-Pressure CO₂ is less expensive to replenish and requires a smaller footprint for agent storage. Multiple discharges of system are possible without switch over to the reserve.

Low Maintenance. Low-Pressure CO₂ systems do not require hydrostatic testing... ever. Fill connections are easily accessed without the involvement of plant personnel. The liquid-level gauge continuously monitors the amount of agent stored eliminating the need to verify weight.

Clean. CO₂ leaves no residue, eliminating the need for a time consuming and costly clean-up. Additionally, CO₂ is electrically non-conductive and does not cause spoilage of organic materials.

Efficient. CO₂ vapor chokes off combustion quickly. In a Low-Pressure system, reserve supply is obtained without complicated manifolds or valves.

Environmentally-Responsible. CO₂ is a basic element of the atmosphere and a naturally occurring by-product of combustion. Its use has no long-lasting environmental impact.

Adaptive. CO₂ is effective on a wide range of flammable and combustible materials in both surface and deep-seated fires. Low-Pressure systems allow multiple hazard protection from a common piping system.

Applications for CARDOX Low-Pressure CO₂:

- Automotive Industry
- Cement Plants
- Coal Handling, Grinding and Storage Systems
- Fume Handling Systems
- High Voltage Switchgear Buildings
- Industrial Fryer Process Lines
- Manufacturing and Industrial Processes
- Power Generation Enclosures
- Printing Applications
- Rolling Mills and Metal Processing
- Warehouses and Flammable Materials Storage

Approvals & Listings:

- Factory Mutual

Certifications Available Upon Request:

- CSA
- PED




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 **Kidde
Fire Systems**

**WHDR™
Wet Chemical
System**

WHDR™ Wet Chemical System for Commercial Cooking Applications

Automatic 24-Hour Protection

The heart and soul of every dining establishment is the kitchen. Equipped with ranges, broilers, fryers and a myriad of other high-temperature cooking appliances, no other environment demands proper fire protection more than today's modern cooking facilities.

The Kidde Fire Systems WHDR™ system is specifically designed for the challenging demands posed by cooking applications. By offering one of the most flexible system configurations in the industry, Kidde Fire Systems provides efficient, economical protection for all types of cooking facilities and design layouts. Our customized approach allows you to specify the type of detection, control and cylinder sizes to fit your application.

Investing in a Kidde Fire Systems WHDR system helps to enable more than just code compliance for your appliance (UL300, NFPA 96 & 17A); it provides automatic, round the clock protection from the devastating consequences of fire.



Why Choose the WHDR System?

Economical. Cost-effective, pre-engineered system simplifies design and installation.

Easy-to-maintain. Semi-annual system inspections and routine maintenance per NFPA regulations are performed quickly and efficiently by your local Kidde Fire Systems distributor.

Proven Protection. Providing the best in kitchen fire protection for over 40 years, the Kidde Fire Systems WHDR System is the choice of countless restaurants and cooking facilities worldwide.

24/7 Support. Designed, installed and serviced by our factory-trained, global network of Kidde Fire Systems distributors.

Customized Solution. System design and installation provided by your local distributor, delivering a superior code-compliant solution which is tailored to your fire protection needs.

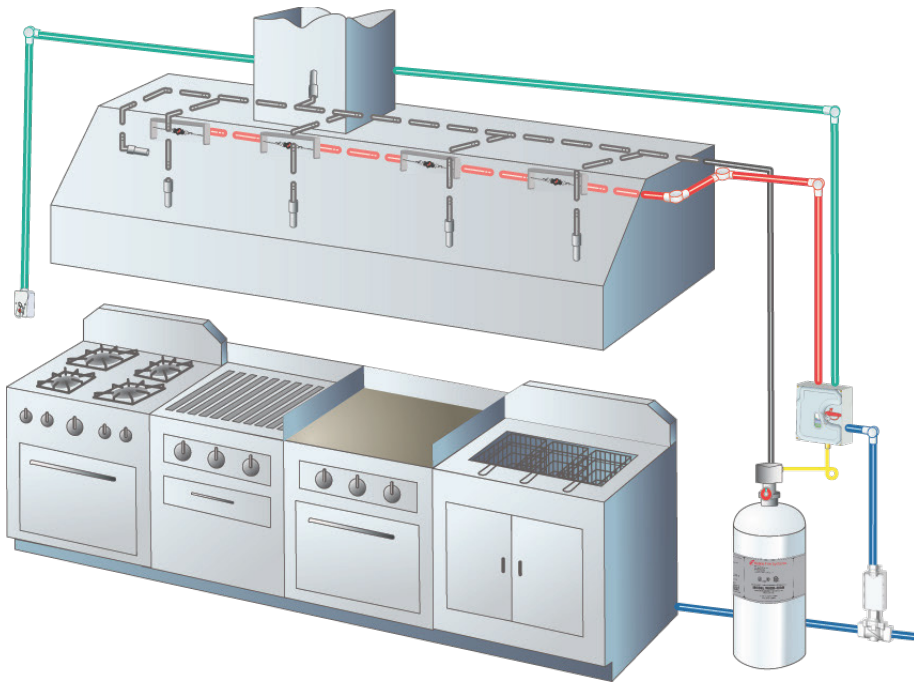
Robust Design. Meets strict UL 300 fire test criteria, suppressing fire without the need for secondary agent or system connections.

Reliable. Every WHDR system is backed by the Kidde Fire Systems warranty.

How Do WHDR Wet Chemical Systems Work?

1. Fire is detected by the Kidde Fire Systems mechanical link, or electric Detect-A-Fire® (DAF), or the system is manually activated by a remote pull station.
2. The XV™ Control System simultaneously actuates up to 20 pressurized agent storage containers, shuts down fuel and power sources to the appliances and activates the building fire alarm.
3. The Kidde Fire Systems APC wet chemical agent, designed specifically for the challenges posed by oil and grease in a kitchen environment, is propelled through the system piping by the stored pressure container.
4. The Kidde Fire Systems APC agent discharges from strategically positioned nozzles protecting the hood, duct and appliances. APC agent quickly suppresses the flames and forms a protective layer that not only extinguishes the fire, but also prevents re-ignition.

WHDR System Components:



Customers Protected:

- Casual & Family Dining
- Corporate Cafeterias
- Diners
- Educational Facilities
- Fast Food Chains
- Fine Dining
- Healthcare Facilities
- Hotels & Lodging
- Institutional Facilities
- Marine Galleys
- Nursing Homes
- Shopping Mall Food Courts
- Sports Stadiums and Complexes
- Supermarkets/Groceries
- XV Control System
- WHDR Agent Storage Container
- Thermo Bulb, Fusible Link or DAF Detection
- Manual Remote Release
- Mechanical or Electric Gas Valve
- Customized Discharge Nozzles

Applications Protected:

- Hoods, Plenums & Filters
- Duct Work
- Fryers
- Ranges
- Char-broilers
- Woks
- Griddles
- Salamanders
- Tilt Skillets
- and more...

Approvals & Listings:


- UL Listed
- ULC Listed
- NYC Fire Department (COA)
- ABS Type Approved
- DNV Type Approved



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Kidde Fire Systems

Pre-Engineered

IND™ Dry Chemical System for Vehicle Paint-Spray Booths

Automatic 24-Hour Protection

Autobody refinishing areas are "perfect places" for fires to start. With paints, solvents and other flammable liquids present, all it takes is one spark. In minutes, a vital cog in an auto body shop or production line becomes a statistic. The losses begin to add up... lost production, equipment, inventory, maybe even personal injury, not to mention the higher insurance premiums.

Working closely with design engineers in the spray booth industry, Kidde Fire Systems developed the pre-engineered IND™ Dry Chemical System specifically for vehicle booth applications. These systems automatically detect and suppress fire — even in hard to reach areas like duct work and plenums — before the fire can grow and spread. Designed for effectiveness and economy, the Kidde Fire Systems solution is on guard 24-hours a day, whether people are present or not.

The Kidde Fire Systems IND System uses Class ABC dry chemical to suppress fire in vehicle spray booths. Pound-for-pound, dry chemical suppresses more fire than any other agent, providing both rapid suppression and protection against fire re-ignition.

IND System Components:

- XV™ Control System
- IND Agent Storage Container
- Fenwal Detect-A-Fire® or Rapid Response Thermo-bulb Links
- Dry Chemical Discharge Nozzle
- Manual Remote Release
- Optional AEGIS™ or ARIES® Control Panel
- ABC or BC Dry Chemical Agent
- Actuation Delay

IND Dry Chemical System Features:

Quick response. Designed to detect and extinguish fire within seconds.

Automatic protection. The Kidde Fire Systems AEGIS or ARIES control units ensure protection 24/7.

Cost effective. The pre-engineered concept saves money in hardware and installation costs while offering precise protection for a variety of applications.

Superior coverage. Protects booths up to 24 ft. tall.

Satisfies insurance requirements.

Meets requirements of NFPA 17, 33 and 34.

UL Listed, ULC Listed and NYC FD (MEA) Approved.



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IND™ Dry Chemical System

for Industrial Applications

Automatic 24-Hour Protection

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." The Kidde Fire Systems IND™ Dry Chemical System is your best choice for protection of any industrial process or machinery where hazardous liquids or hazardous materials are involved.

The IND System is available in two basic configurations: as a local application system or a total hood system. A local application system is designed to protect a specific piece of equipment, a total hood system is recommended for protection of enclosed rooms or spaces. In addition to these configurations, the IND System also offers options for detection and control to create a system that will be ideal for your application. Your Kidde Fire Systems Distributor can help you design the right system, and the right approach, for your application.

IND Dry Chemical System Benefits:

Economical. The pre-engineered concept reduces hardware and installation expenses providing cost-effective fire protection.

Design Flexibility. Specify the system configuration and components to meet the requirements of your facility and industrial application.

Regulatory Compliance. The installation of an IND System ensures your facility is compliant with insurance, local and federal code standards.

Reliable, Proven Protection. Researched, designed, manufactured and installed by Kidde Fire Systems, the world leader in system solutions, IND Systems can be found globally throughout the industrial world.

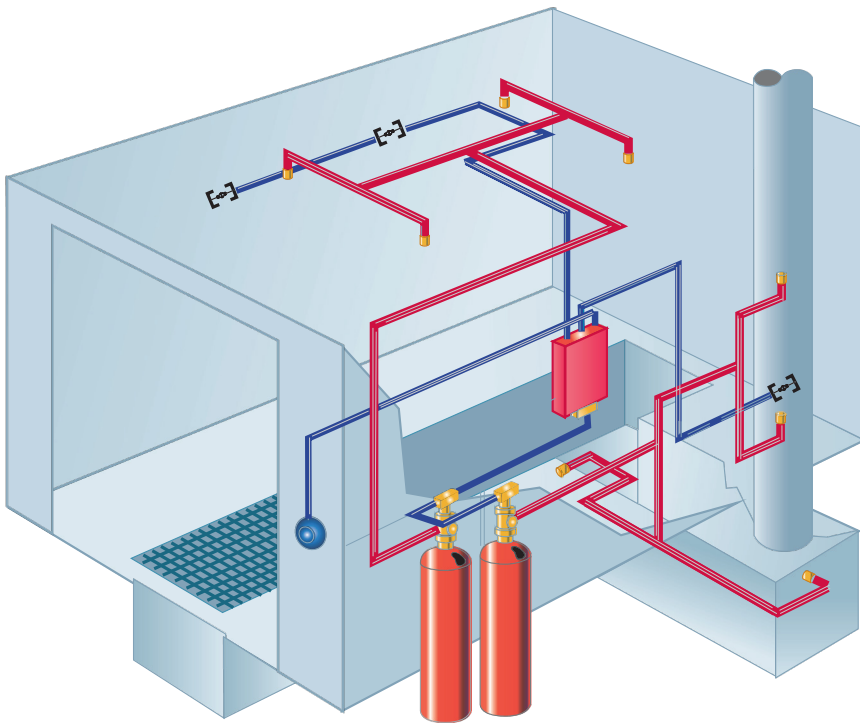


How Do IND Dry Chemical Systems Work?

1. Fire detectors sense fire heat in work area, plenum or duct and a signal is sent to the Control Panel.
2. The Control Panel electrically activates the Cylinder Control Head, which opens the cylinder valve and actuates the system.
3. The Control Panel sounds an alarm, notifies the fire authorities and shuts down air flow in the hazard area.
4. The fire is suppressed as dry chemical is propelled by stored pressure through the discharge pipes and nozzles into the protected area.

IND System Components:

- XV™ Control System
- IND Agent Storage Container
- Fenwal Detect-A-Fire® or Rapid Response Thermo-bulb Links
- Dry Chemical Discharge Nozzles
- Manual Remote Release
- Optional AEGIS™ or ARIES® Control Panel
- ABC or BC Dry Chemical Agent



Applications Protected:

- Boiler/Furnace Rooms
- Bulk Storage
- Coating Operations
- Electrical/Mechanical Rooms
- Environmental Storage Facilities
- Exhaust Ducts
- Flammable Liquid Storage Areas
- Industrial/Automotive
- Machinery Spaces
- Modular HazMat Storage Facilities
- Paint Mixing Areas
- Paint Spray Booths
- Quench/Dip Tanks
- Spill Containment Dikes

Approvals & Listings:

- UL Listed
- ULC Listed
- FM Approved
- NYC Fire Department COA



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IntelliSite™

Real-time, cloud-based solution

IntelliSite is engineered to deliver real-time data from connected assets into a single platform. By leveraging access to software features, real-time and historic data along with event-based alerts, our business partners (distributors) and their clients are able to make informed decisions about their assets in real-time.



Benefits to your Team:

- Configuration files (Edit, Save, View)
- Configuration files repository
- Increased awareness of system status
- Firmware upgrades status
- Customizable inspection & Post inspection checklist
- Inspection reports available to you and your clients
- One - person walk test with guided workflows makes periodic inspections easier
- Mobile application
- Event Persistence Feature - saves/ recovers any events during an outage

Benefits to your Business:

- Add IntelliSite™ offerings as part of maintenance and service contracts
- Monitor alarm systems in remote locations
- Multiple sites under one account
- Review real-time and historical events
- Set up notifications
- Event Log of all tested devices
- Commission and decommission gateways with a click of a button
- Service teams can review a situation and make the right service call before travel

Insightful. Gain valuable insights with real-time event information, now at your fingertips.

Efficient. Significantly reduce service times with remote system analysis and maintenance planning.

Helpful. Increase service levels and customer satisfaction with 24/7 remote access and troubleshooting.

Cost-Effective. Reduce operational expenses by optimizing field service technicians' schedules.

Flexible. Set system access rights to meet site needs with customizable user management.

Transparent. Keep users informed of system status with automated notifications.

Enhance. Your value to sites and customers with a new approach. Save time with more efficient device testing methods.



Securely Protected:

- Secure cloud connectivity
- iOS™
- Android™
- Cybersecure
- Protecting all identifiable data
- ATT Coverage Map is available

Benefits to your Customers:

- Increased awareness of system status
- Historical data in one account that builds trust with one partner
- Customized service reports

Take action to become an Important Partner of Your Customer Assets

Search for the IntelliSite™ Application:



The IntelliSite™ Website:

<https://kfsintellisite.com/>

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ARIES®-SLX Suppression Control Unit

Proven. Effective. Reliable.

The ARIES®-SLX is a compact intelligent, addressable, networkable fire alarm-suppression control unit. The ARIES®-SLX features handle the demanding operational requirements of special hazards fire extinguishing systems and provide complex command and control benefits for multiple hazards.

The ARIES®-SLX is designed and manufactured by Kidde Fire Systems for the express purpose of providing a very versatile, addressable suppression control platform at an attractive price point.

Rugged reliability, with built-in protection against unintended agent release, is a hallmark of our fire suppression control units. The Kidde Fire Systems "Triple-R" (triple redundancy) safeguard ensures that no single component failure or combination of abnormal operating conditions, including main microprocessor failure, will result in accidental agent release.

The ARIES®-SLX fire alarm-suppression control unit combines the best available technologies with the Kidde Fire Systems rich history of system "know how". The ARIES®-SLX raises the bar for the industry and enhances our ability to provide you with a single source for a professional turnkey solution, when superior performance at the lowest installed cost is paramount.

The versatility of the ARIES®-SLX provides the features and scalability to make it suitable for almost any fire alarm suppression control application.

Unique benefits are provided when the ARIES®-SLX is installed in:

- Airport Signal Traffic Controls
- Archive Rooms
- Computer Operations
- Art Galleries
- Electronic Equipment
- Libraries
- Gas Turbines
- Medical Facilities
- Manufacturing Plants
- Packaging Plants
- Railway Traffic Controls
- Universities



ARIES-SLX Features:

- Compact enclosure with 5.A power supply
- Triple-R redundancy mitigates inadvertent agent release
- Signaling Line Circuit for up to 255 devices with NO device restrictions
- Backward compatible with wide array of Smart One® sensors and modules
- Peer-to-Peer networking of up to 32 control units
- Two (2) Notification Appliance Circuits (NACs)
- Two (2) Incredibly Flexible Releasing Circuits
- Two (2) Combination NACs/Releasing Circuits (1 Solenoid)
- Four (4) Form-C Relays (3 Programmable/1 Trouble)
- Two (2) Auxiliary power output ports
- Easy to read 80-Character LCD Display
- Remote Annunciation
- USB Device Port
- Internet accessible and email alerts supported
- Modbus TCP/IP supported for seamless integration with building systems
- Compatible with IntelliSite™ Remote Monitoring System

Approved for releasing the following Kidde Fire Systems:

- ECS™ and ADS™ Clean Agent
- Carbon Dioxide
- Dry Chemical
- Wet Chemical

Approved for releasing the following water-based systems:

- Water Deluge
- Water Mist
- Pre-Action and Foam

Approvals & Listings:

- UL Listed to UL-864, 10th Edition
- FM Approved
- NYC Approved
- CSFM Listed



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ARIES®-MLX Suppression Control Unit

Proven. Effective. Reliable.

The ARIES®-MLX is designed and manufactured by Kidde Fire Systems for the express purpose of providing a very versatile suppression control platform for more demanding applications with multiple hazards to protect.

Rugged reliability with built-in protection against unintended agent release are hallmarks of our control units. The Kidde Fire Systems "Triple-R" (triple redundancy) safeguard ensures that no single component failure or combination of abnormal operating conditions, including main microprocessor failure, will result in accidental agent release.

The fully featured ARIES®-MLX multi-loop control unit combines the best available technologies with the Kidde Fire Systems rich history of system "know-how". ARIES®-MLX raises the bar for the industry and enhances our ability to provide you with a single source for a professional turnkey solution, regardless of the scope of your protection needs.



The versatility of the ARIES®-MLX provides the features and scalability to make it suitable for almost any fire alarm suppression control application.

Unique benefits provide advantages when installed in:

- Airport Signal Traffic Controls
- Computer Operations
- Document Record Storage
- Manufacturing Facilities
- Medical Facilities
- Power Generation Plants
- University Campus Environments
- Archive Rooms
- Art Galleries
- Control Rooms
- Gas Turbines
- Historical Sites
- Libraries
- Museums

ARIES-MLX Features:

- Two (2) built-in board SLC loops capable of 255 devices each (no device type restrictions)
- Expandable up to 8 SLC loops, 96 relays or 72 release/NAC circuits
- 4 x 40 LCD display supports English, French Canadian, Spanish and Portuguese. The desired language is easy to select using the menu options provided on the user interface display
- 64 possible network nodes; 130,560 addresses
- Backward compatible with a large universe of Smart One® sensors and modules
- Network level suppression release of up to 214 hazards per node
- Unmatched seamless integration with High Sensitivity Smoke Detection
- Aspirated Smoke Detection and Linear Heat Detection devices on SLC; lowers overall system cost
- Migration strategy for installed base of legacy controls with a simple retrofit kit
- Flush mounts between standard 16" studs
- Releasing circuits have built-in NFPA-72 compliant maintenance switch
- Digital Alarm Communicator Transmitter (DACT) to transmit system status over phone lines to a Central Station
- Internet Communication Module (ICM) for event viewing and seamless integration to external monitoring, such as building systems
- LED Annunciator Module (LAM) for up to 48 point annunciation
- Supports Canadian applications and networking that require compliance to ULC S527-11 3rd edition
- Compatible with IntelliSite™ Remote Monitoring System Control Your System with Our Advanced Addressable and Networkable Multi-Loop Panel — The ARIES-MLX Fire Suppression Control Unit.

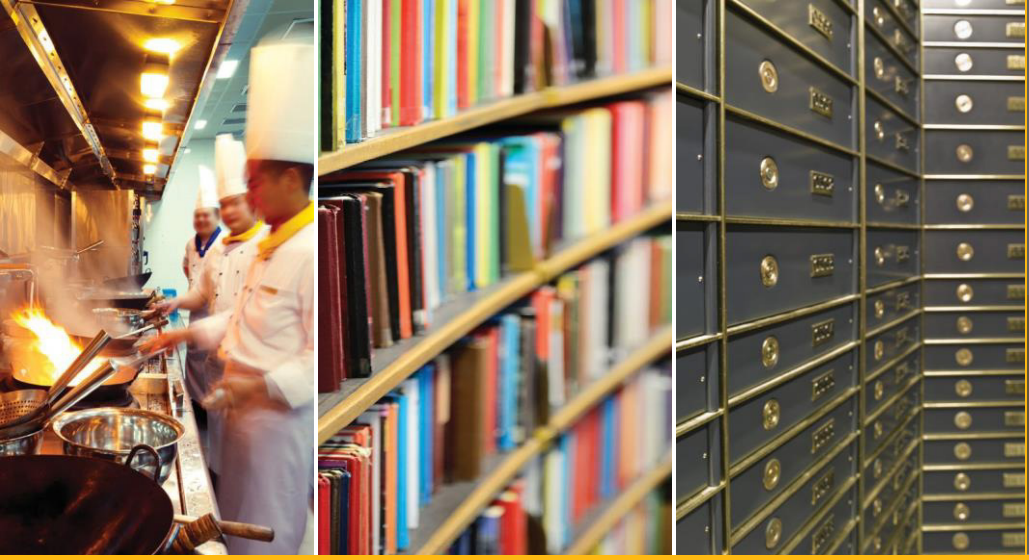
Approvals & Listings:

- UL Listed to UL-864, 10th Edition
- cUL Listed
- FM Approved
- NYC Fire Department Approved
- CSFM Listed
- City of Chicago
- California OSHPD Seismic



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The New AEGIS™-PHX

Conventional Fire Suppression Control Unit

Compact, Flexible and Economical Suppression Control

Specifically designed for special hazard fire suppression applications utilizing gaseous (Chemical, CO₂, Inert Gas), chemical (Wet Chemical, Dry Chemical) and water-based agents, the AEGIS-PHX offers exceptional flexibility and ease of operation for both technicians and end-users, while maintaining the renowned reliability and suppression-focused features that have defined this product line for decades. Like other Kidde Fire Systems control units, the AEGIS-PHX features triple redundancy (Triple-R) safeguards, significantly reducing the risk of inadvertent activation of suppression systems due to microprocessor failure or spurious signals.

This next generation version of our trusted AEGIS™ family boasts cutting-edge features, including a 1000 event log with a real-time clock, fully programmable I/O circuits, an enhanced user interface with a 4x4 LCD, advanced diagnostics capabilities, and much more. Even better, the 15 pre-defined configurations make sequence of operation selections for clean agent systems and LPCO₂ just as quick and easy as those for a kitchen system while a PC-based configuration utility allows for more complex suppression operations.

The AEGIS-PHX is intentionally designed for "Plug-and-Play" retrofit. It fits seamlessly into existing AEGIS enclosures, with terminals located in similar positions and operating in the same manner, thereby ensuring an easy learning curve for technicians and operators familiar with AEGIS panels.

Short of space or installing a system for 'object' protection? An enclosure option with door-mounted manual release, abort, and maintenance switches enables a fully code-compliant system with reduced installation costs.



AEGIS™-PHX key features include:

- Control for all Kidde Fire Systems suppression platforms.
- Robust “Triple R” safeguard designed for use with our Suppression systems.
- 1000 Event Log with battery backed-up real-time clock.
- 4x40 LCD screen for ease of use, more descriptive messages, and easier configuration.
- 15 pre-defined configurations available for great convenience and time-saver.
- PC-Based Configuration Utility, which includes an EOC creation wizard, allows even more flexibility.
- Seven (7) initiating and five (5) output circuits, programmed individually to suit site and suppression system configuration requirements.
- “Plug and Play” design for easy retrofit of AEGIS™ family panels.
- Compatible with all existing and most legacy releasing devices and initiating devices.
- Quick enabling and connection to IntelliSite.
- Enhanced digital cyber security.
- Improved diagnostics capability, with on-screen detailed messages.
- Programmable AUX power output operation – Latch or non-latch – with improved in-rush current management.
- NFPA 2001 compliant door-mounted Key Maintenance Bypass Switch.
- Support of external relays through built-in output collectors.
- Compatible with 3rd party DACTs.
- 120/240V, 5.4A power supply.

Applications Protected:

- Banks
- Clean Rooms
- Commercial Facilities
- Computer Operations
- CNC Machines
- Data Centers
- Generator Rooms
- Heritage Preservation
- Industrial Processes
- Manufacturing Operations
- Printing Presses
- Record Storage
- Restaurant Hoods
- Other Areas With High-Value Assets

Control for Wide Array of Fire Suppression Systems:

- ECS™ Clean Agents
- ADS™ Clean Agents
- Inert Gases
- HP CO2 and LP CO2
- WHDR™ Wet Chemical
- IND™ Dry Chemical
- Fenwal Initiators
- Sprinkler Supervisory
- Deluge/Pre-action
- Foam and Foam/Water

Approvals & Listings:

- Listed to UL 864, 10th Edition (S2422 Vol. 19, Sec. 1)
- FM Approved



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Conventional

AEGIS™ 2.0 Suppression

Control Unit

Compact, Flexible and Economical Suppression Control

AEGIS™ 2.0 Conventional Control Units are designed for special hazard fire suppression environments. These fully-featured, single-hazard control units are backwards compatible with Kidde Fire Systems, Fenwal® and Chemetron® systems, equipped with a full complement of input and output circuits and provide a high degree of programming flexibility. All Kidde Fire Systems control units offer triple redundancy (Triple-R) safeguards to substantially reduce inadvertent activation of the suppression system caused by microprocessor failure.

AEGIS 2.0 Control Units are designed for ease of use and installation. The enclosures easily fit between the studs of standard 16-inch wall construction and house two 12 VDC, 12 AH batteries. These units offer a 5.4 Amp power supply, 68 AH battery charging capacity and supports Class A wiring without additional hardware.

AEGIS 2.0 Control Units support applications that require NEMA 1 enclosures. Two enclosure options are available, one with a standard door and one with door mounted Manual Release and Abort switches to avoid the additional expense of wall mounting these items.



AEGIS 2.0 Control Unit Features:

- Seven (7) input and five (5) output circuits supported in compact NEMA 1 enclosure
- Enclosures fit between studs of a 16-inch standard wall and house two (2) 12 VDC, 12 AH batteries
- Backwards compatible with all Kidde Fire Systems, Fenwal and Chemetron legacy systems
- 5.4 Amp power supply and 68 AH battery charging capacity
- Triple-R Protection substantially reduces inadvertent activation of the suppression system caused by microprocessor failure
- Agent Release Circuits programmable for activation by different inputs and with different time delays and abort modes
- Activates combinations of the following releasing devices:
 - » One (1) or two (2) Kidde Fire Systems Continuous and Momentary Solenoid Control Heads
 - » One (1) Kidde Fire Systems Actuator or Fenwal Initiator
 - » One (1) FM Approved Release Panel Group 2 Solenoid (FM Approved Solenoid Valves rated 16.8W and below)
- Power limited circuits — Agent Release Circuits can be configured for non-power limited operation for applications utilizing Fenwal Initiators
- Class A wiring supported without any additional hardware
- Release countdown timer and battery voltage and charging values displayed on user interface

Applications Protected:

- Banks
- Clean Rooms
- Commercial Facilities
- Computer Operations
- Data Centers
- Generator Rooms
- Heritage Preservation
- Industrial Processes
- Manufacturing Operations
- Record Storage
- Restaurants
- Areas Containing High-Value Assets

Control for Wide Array of Fire Suppression Systems:

- ECS™ Clean Agents
- ADS™ Clean Agents
- Inert Gases
- HP CO2 and LP CO2
- WHDR™ Wet Chemical
- IND™ Dry Chemical
- Fenwal Initiators
- Sprinkler Supervisory
- Deluge/Pre-action
- Foam and Foam/Water

Approvals & Listings:

- FM to NFPA 72, ANSI/UL 864 10th edition
- UL to ANSI/UL 864 10th edition



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Detect-A-Fire®

DETECT-A-FIRE® detectors are the "heart" of many fire protection systems. The highly reliable D-A-F has been the standard for over 75 years. The D-A-F is used for signaling overheating or fire conditions. In the vast majority of applications, the D-A-F provides the initial heat sensing that is used to activate suppression systems using clean agent, CO₂, inert gases, wet or dry chemicals or water.

D-A-F detectors are widely accepted, because they are designed with rate compensation. This provides a unique advantage over both fixed temperature and rate-of-rise types of detectors because the D-A-F detector accurately senses the surrounding air temperature regardless of the fire growth rate. At the predetermined set point, the system is activated. Fixed temperature detectors must be completely heated to alarm temperature and therefore a lag in response time may occur with a fast rate fire. Rate-of-rise devices, on the other hand, are triggered by the rate of increase in ambient temperature and are subject to false alarms caused by harmless, transient thermal gradients such as the rush of warm air from process ovens.

FEATURES

- Repeatable - self-restoring, nothing to replace, testable
- Versatile - various temperature settings available
- Durable - long lasting stainless steel shell
- Economical - wide spacings reduce installation costs
- Factory set
- Internal contact area hermetically sealed in stainless steel shell
- ROHS Compliant

APPLICATIONS

- Protection of schools, factories, offices, libraries, or other non-residential buildings
- Power generation
- Gas station islands
- Paint spray booths
- Range hoods
- Engine compartments



ModuLaser® Aspirating Smoke Detection

ModuLaser® is a scalable aspirating smoke detection solution that makes installation easier, maintenance quicker, and takes applications further than traditional air sampling detectors. Thanks to advanced features that make it virtually impervious to dust and dirt, ModuLaser is ideal for use in hostile environments that would disable other kinds of smoke detectors. Forward scattering optical detection adds early warning capability without the risk of nuisance alarms normally associated with high sensitivity smoke detection, while ClassiFire™ our exclusive environmental compensation technology adds a high degree of reliability to an already solid detection solution.

Two basic module types comprise the ModuLaser solution: a Display Module, and a Detector Module. Each Detector Module can accommodate up to 820 feet (250m) of combined sampling pipe. Display Modules and Detector Modules communicate by RS485 interconnections.

Display Modules are available in three configurations:

- 1) Standard with Thin-Film-Technology(TFT) color display, status LED's and navigation buttons,
- 2) Minimum with only status LED's, and
- 3) Command which is similar to the Standard display but with the added functionality to control various modules over SenseNET networking software.

The Minimum and Standard Display Modules can each support up to 8 Detector Modules, while the Command Display Module can support up to 127 modules across the SenseNET network.



ModuLaser Features:

- **Modular Design** Separate centrally-controllable detector modules allow efficient piping and discrete zones with no overlap.
 - **Zoned aspirating smoke detection**
Individual detector modules provide detection for individual areas or zones. Specific zone alarm information can be transmitted to the fire alarm control unit through dedicated alarm relays within each detector module.
 - **Simplified Installation**
Docking station design allows detectors to be easily removed to ensure they will not be damaged during installation. Aspirating pipework and cable entries can easily be made into either the top or the bottom of the unit.
 - **Intuitive User Interface**
Bright, easy-to-use color TFT display and universal navigation and control buttons take the guesswork out of programming and diagnostics.
 - **Easy Pipe Connection**
The quick fit pipe adapter system locks down securely, yet leaves plenty of room for easy pipe connection and removal.
 - **Quick Location of Smoke**
Each detector module is self-contained, which means no delays in determining in which zone (sampling pipe) smoke is present.
 - **Connects From Relays on Module Backplane to Control Unit Initiating Device Circuit (IDC) or Signaling Line Circuit (SLC)**
Three relays are included on each detector: Trouble (General Fault), Pre-Alarm and Fire Alarm. Additional relays are available on Minimum, Standard and Command Module backplanes.

Approved for the following Kidde Fire Systems

- Kidde Fire Systems Conventional and Addressable Control Units
- The following are additionally compatible for seamless integration using the APIC Card, P/N 76-333002-001 (agency approval pending): Aries-MLX and Aries-SLX

Approvals & Listings:

- FM Approved
- UL Listed to UL268, 7th edition
- ULC Listed to ULC-S529, 4th edition
- California State Fire Marshal Listed



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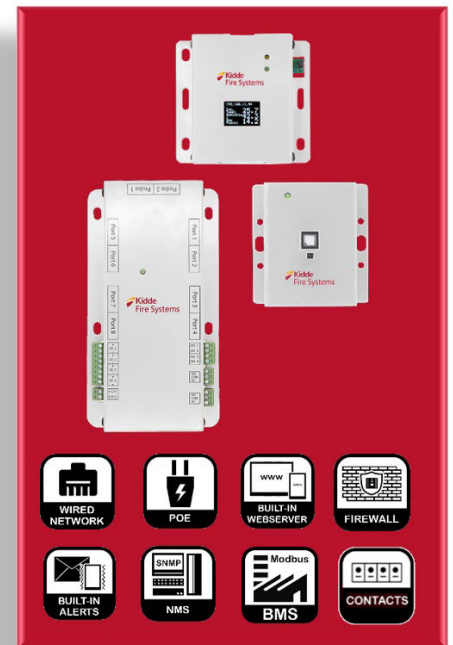
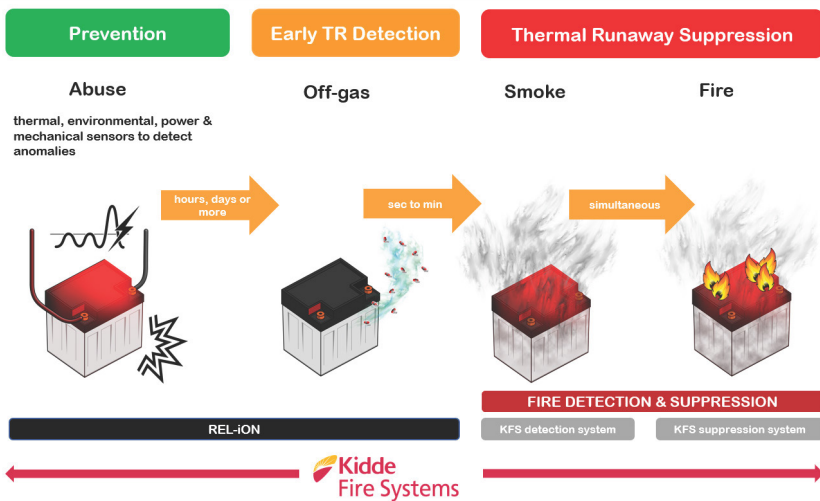
Sell Sheet

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REL-iON™ Battery Monitoring System

Kidde Fire System's REL-iON™ Battery Monitoring System is a modular sensor platform designed to detect potential failures in mission critical applications, such as Battery Energy Storage Systems (BESS), Switchgears, Data & Network infrastructure, etc.

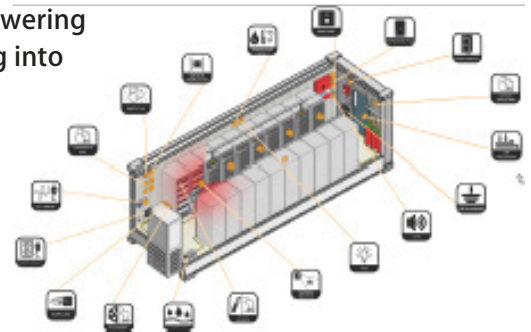


With an array of over 80 detectors, capable of detecting thermal, environmental, power, and mechanical abuses, our platform delivers real-time data, empowering you to address anomalies proactively and preventing them from escalating into potentially devastating problems.

Multi-Point Monitoring Architecture

To mitigate the risk of thermal runaway events, a crucial approach involves the utilization of sensors capable of detecting off-gases or initial venting occurrences. The optimal sensor for this task is one that can identify both carbon dioxide (CO₂) and volatile organic compounds (VOCs).

Moreover, when employing liquid cooling for your batteries, it is imperative to include a Hydrogen (H₂) sensor. In such cases, battery leaks can occur at typical operating temperatures, releasing H₂ gas before any other gas.



REL-iON™ Key Features Include:

- **Centralized Control**

SensorGateway: One single stand-alone IP-based control unit with built-in temperature sensor and multiple outputs, such as alerting via email and SMS, Wi-Fi connectivity, etc.

- **Expandable Modular Design**

SensorHub: A Plug-and-Play unit that expands the base control unit capacity from 2 to 8 ports and adds up to 8 dry-contact inputs and outputs for easy integration with third-party systems.

- **Flexible**

Over 80 detectors and add-on modules, allowing the system to be highly customizable and optimized to detect several different abuse sources and off-gassing events.

- **Easy to Install**

Plug-and-Play, Power Over Ethernet (PoE) network architecture, using off-the-shelf RJ45 CAT6/7 cable.

- **Easy to Integrate**

In addition to dry-contact outputs, the system can be configured to be integrated with third-party systems through several different protocols, including Modbus TCP and RTU, and multiple IoT-based platforms.

Approved for the following Kidde Fire Systems

- Kidde Fire Systems Conventional and Addressable Control Units

Applications

- Battery Energy Storage Systems (BESS)
- Switchgears
- Data & Network infrastructure
- & More

Approvals & Listings:

- UL Listed*
- FCC*
- CE Certified*
- ISO* *where applicable



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THE DISTRIBUTOR EXTRANET E-COMMERCE

Available to all KFS distributors in the U.S. and Canada, the Distributor Extranet is a great resource and easy way to place an order while staying updated and informed on company policy and price changes-all posted on the homepage. Distributors can have up to four users per account.

Every month product training classes are offered through KFS. Get proper training from the experts in KFS product applications and related codes and standards. See our current offerings and sign up for our certified training under the training tab. Virtual classes make training readily accessible and all certifications are valid for three years.

Need to place a large order?

Simply upload your order using our excel template. Click the shopping cart icon on the top right corner to download the template and upload your order.

Looking for information on the systems and agents we offer?

Browse our media gallery to find manuals, data sheets and other valuable information and forms.

For special orders or delivery and shipping needs please contact your customer service representative. For general support or information please visit our website at https://kiddefenwal.com/Public/Kidde_Fire_Systems.

ONLINE ORDERING FAQ

- Your company ADMIN has access to the Distributor Extranet and can setup unlimited additional users. Users can have more than role such as order entry, technician and view/place RMA.
- New users can find an Online Ordering Tutorial in the media section.
- Orders can only be placed using a purchase order # at this time. Special quotes and other payment methods cannot be processed online at this time, please contact your customer service representative to place an order.
- Ship To address and Delivery instructions can be updated during the order placement process.
- Previous and current orders can be viewed under the Orders dropdown menu located on the left side of the page.
- RMA Request form to process a return is available under the orders tab on the left. Users must have a RMA role enabled to have access.
- The Distributor Extranet is best experienced on a desktop and not on a mobile device.

Training with KiddeFenwal on Kidde Fire Systems

FAQ

Kidde Fire Systems Training Courses for Distributors

Kidde Fire Systems offers a variety of training courses to help our distributors stay up-to-date and certified on our products. Whether you are looking for online instructor-led classes or on-demand self-paced learning, we've got you covered.

Why is Certification Important?

Valid certification is required for each product line that distributors sell or service. This ensures that you have the necessary skills and knowledge to support Kidde Fire Systems products effectively.

Training Options Available

We offer online instructor-led classes that are available now, with schedules tailored for distributors across various regions, including North & South America, the Middle East, Africa, and Asia-Pacific. Self-paced on-demand courses will be available soon, offering flexibility to learn at your own pace and fit training into your schedule. For Spanish-speaking distributors, we provide annual classes with professional translators to ensure high-quality instruction.

Recertification

For those holding a current certificate, recertification is available to extend your certification for another 3 years. Certificates can be renewed up to two times following the completion of an instructor-led course, as long as there is no lapse in certification.

Where to Find Training Information

Until the new Learning Management System (LMS) launches, check the Training section of the Distributor Extranet for scheduled classes and updates. Log in through www.KiddeFireSystems.com.

We are committed to providing the tools and training necessary to help you succeed. Stay certified, stay confident, stay safe and effective!

Rush Order Policy

In order to place a rush order, orders must be received during business hours prior to cut off times. Orders with stock parts must be placed by **2:30pm**. *If you have a rush that is past the cut off times and is an emergency, please contact the Customer Service Manager. To escalate inquiry, contact Kristy Kibler, Director- Services and Aftermarket. The applicable customer service representative will take ownership of ensuring the order is staged and ready to ship prior to their end of shift.

A Rush Charge applies to all orders received and processed prior to shipping cut off times and shipped out that business day. A rush fee of \$150.00 will be charged to any order processed and shipped same day. A rush fee is also applied to orders received after 3:30pm & requested to ship the next business day.

Freight Stock Order Policy

All U.S. and Canada purchase orders for pre-engineered systems and portable fire extinguisher products with a net value greater than US\$6,000.00 will qualify for the free freight program. Pre-engineered systems include the WHDR, IND, and Badger Portable Fire Extinguisher products found in our KWDC and PFX price lists.

Exceptions and Conditions may apply:

- Promotion includes standard freight only. Rush or expedited orders and air shipments are excluded. This free freight offer cannot be applied to other freight methods.
- Promotion applies to single orders only, NOT multiple/consolidated orders.
- Promotion applies to Kidde Fire Systems selected carriers only.
- All sales are subject to Kidde Fire Systems Terms and Conditions of Sale. Risk of loss and transfer of title shall pass to Buyer at Kidde Fire Systems' dock.
- Kidde Fire Systems reserves the right to amend and/or rescind this offer with 30 days notice.

Orders in the free freight program are shipped exclusively via Standard Ground. Any exceptions to this policy are at the discretion of Kidde Fire Systems.

Contact your customer service representative with any further questions or concerns.

Return Material Authorization Terms & Conditions

Goods may be returned only with the prior written authorization of Seller in the form of a Return Material Authorization (RMA). Please note that any custom-ordered goods, such as cylinders and nozzles, may not be returned. These items are made specifically for each order and therefore "customer-configured" in nature. We will refuse to accept any Goods returned without a valid Returned Material Authorization number assigned by KFS.

Obtaining an RMA can be done two (2) ways: contact your Customer Support Specialist or you can request an RMA thru our KFS Distributor Extranet. Please see our full Terms and Conditions on the KFS Distributor Extranet under "Resources" and then "Company Policies."

1. RMA number must be clearly marked on the outside of all return packages. Use original packaging if possible. Any applicable information, including RMA form, should be included with the product returned.
2. Product functionality/application questions should be directed to Technical Services at 1-866-287-2531.
3. The minimum fee for review of non-warranty/repair activity is \$125.00.
4. Product returned for restock only must be in new condition, unused, not dated material and original packaging. Return restock material within one month from original shipment. A restock fee of 25% will apply.
5. All returns must be received within 90 days of RMA issue date, unless otherwise specified.
6. Unauthorized returns will be refused and returned to sender freight collect.
7. Items received damaged due to poor packaging may result in a voided warranty and therefore no credit or replacement will be authorized.
8. All sales are subject to our Standard Terms and Conditions' warranty duration and material disposition (repair/replace).

Cancellation Policy

In the event a distributor wishes to cancel an existing order, if the Customer Service Specialist has confirmed that the order is pulled and packed for shipment, we will charge a 25% handling fee on the total value of the canceled order or canceled part(s). There may be times when we can not pull the order before shipment due to logistical reasons. Please accept the order if shipped and ask for an RMA (Return Material Authorization) number so you may return the parts. Please note that "customer-configured" parts such as cylinders and nozzles (or other "custom" parts for your specific application) may not be canceled or returned. Please see our full Terms and Conditions on the KFS Distributor Extranet under "Resources" and then "Company Policies."

Certification of End-Use and End-User

The purpose of this End-Use and End-User Certificate is to ensure compliance with U.S. Export Control and Sanctions Laws and Regulations and to confirm ultimate End Use of our products, software, and technology (collectively "ITEMS"). It is our policy to ensure compliance with applicable United States Export Control Laws and Regulations. **Any diversion of our products, software and/or technology contrary to U.S. Laws is prohibited.**

Please Check One:

This order for a new project

This order for an existing project and is a retrofit or upgrade

Insert Customer Order Number or Reference Number i:

Identify the ultimate end-user or end-users of the ITEMSⁱⁱ	Full Name (1): _____	
	Full Address (1): _____	
	Full Name (2): _____	
	Full Address (2): _____	
Provide a full description of the intended use of the product and check one ⁱⁱⁱ :		<input type="radio"/> Civil/Commercial end-use <input type="radio"/> Military/Defense end-use
End-use Location and Project Name	End-Use Location (city and country): _____	
	Project Name (if any): _____	
Ship-to and/or any intermediary countries ^{iv}	_____	
BUYER certifies it will perform adequate compliance due diligence and screening measures to verify and confirm the end-use of the items, the identity of the end user and the ultimate country of destination of the items.	<input type="radio"/> AGREED <input type="radio"/> NOT AGREED	
None of the ITEMS will be sold, exported, re-exported, diverted, or otherwise transferred to an entity or country subject to U.S. Government sanctions without authorization required by the U.S. Government, including, but not limited to, the following parties: <ul style="list-style-type: none"> ▪ Parties resident in, operating from, shipping the items to, or organized in these locations: Cuba, Iran, Sudan, Syria, North Korea, or the Crimea region of Russia/Ukraine. ▪ Parties identified on the Commerce Department Denied Persons List and Entity List, the OFAC List of Specially Designated Nationals, or the State Department List of Debarred Parties, or other applicable denied party lists. 	<input type="radio"/> AGREED <input type="radio"/> NOT AGREED	
None of the ITEMS will be sold, exported, re-exported, diverted, or otherwise transferred for use in activities involving the development, production, use or stockpiling of chemical, biological or nuclear weapons or items capable of delivering such weapons; nuclear, nuclear-sensitive end-uses; or missiles or missile-related applications and their delivery systems.	<input type="radio"/> AGREED <input type="radio"/> NOT AGREED	
None of the ITEMS is intended for, or will be used to support, the following end-users or end-uses: <ul style="list-style-type: none"> ▪ Military or defense end-users such as national armed services (army, navy, marine, air force, or coast guard), national guard/police, government intelligence, or reconnaissance organizations. ▪ Military or defense application or end-uses by anyone. 	<input type="radio"/> AGREED <input type="radio"/> NOT AGREED	
We agree that US Export Administration Regulations, 15 CFR Parts 730-774 , the US Office of Foreign Assets Control Regulations, 15 CFR Parts 501-598 , other export control regulations and Executive Orders, the EU Council Regulations, and other countries' export control laws may govern, prohibit, or restrict the export, re-export, transfer or disposition of the ITEMS.	<input type="radio"/> AGREED <input type="radio"/> NOT AGREED	



Certification of End-Use and End-User

BUYER certifies that it will convey this information to any and all end-users of the items and require them to certify same.	<input type="checkbox"/> AGREED <input type="checkbox"/> NOT AGREED
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I certify that to the best of my knowledge, the information set forth in this certification is accurate, current and complete. I am duly authorized to provide this certification on behalf of the company identified below. In the event there are changes to the information provided, I will provide the new information, in writing, immediately.

BUYER Company Name and <u>Street Address</u>^v: _____ _____ _____ _____	Your Name: _____ Your E-mail Address: _____ Your Phone Number: _____ Your Title: _____
Date: _____	SIGNATURE: _____

Please contact Trade Compliance with any questions.
KiddeFenwal_ITC@carrier.com or Andrew Lund - andrew.lund@carrier.com

ⁱ Customer PO and KF SO should be listed when available.

ⁱⁱ End-User is the entity that will be ultimately using the goods. End-user is not the direct customer in all cases - There are two name/address here for multiple end-users.

ⁱⁱⁱ This section asks the end-user to describe how or in what way the goods purchased will be used.

^{iv} Intermediary countries are any country that the goods pass through during the transportation to the ship-to.

^v This address should be the legal and physical address of the business or persons residence purchasing the ITEMS. A PO Box is not allowed.

TERMS AND CONDITIONS OF SALE KIDDE FENWAL, INC. ("SELLER")

SELLER'S OFFER TO SELL, AND ITS ACCEPTANCE OF PURCHASER'S PURCHASE ORDER, IS EXPRESSLY CONDITIONED UPON ACCEPTANCE BY PURCHASER OF THESE TERMS AND CONDITIONS. (PURCHASER WILL BE DEEMED TO HAVE ASSENTED TO ALL THESE TERMS AND CONDITIONS IF IT ACCEPTS ANY PART OF THE DESCRIBED GOODS.) ANY ADDITIONAL OR DIFFERENT TERMS OR CONDITIONS CONTAINED IN PURCHASER'S PURCHASE ORDER OR IN ANY OTHER CORRESPONDENCE SHALL BE DEEMED OBJECTED TO BY SELLER AND SHALL BE OF NO FORCE OR EFFECT.

1. WARRANTY AS TO GOODS - Seller hereby warrants for the applicable warranty period that the goods delivered hereunder will be free from defects in material and workmanship and will conform to the specifications on the front of this form starting at the date of purchase. Seller reserves the right to repair or replace products returned under the applicable warranty. **Except for goods listed below, the applicable warranty period for goods sold by the Seller is 36 months from date of shipment.**

The applicable warranty period for **Vehicle Systems products** shall be **18 months** from the date of shipment.

The applicable warranty period for **Xtralis-VESDA air sampling detection products** shall be **24 months** from the date of shipment.

The applicable warranty period for **Low Pressure CO2 Tanks** shall be **12 months** from the date of shipment.

Seller's liability or obligation pursuant to this warranty does not extend to any goods or parts thereof which have been (a) furnished by Purchaser or obtained from other manufacturers or suppliers at Purchaser's request or to Purchaser's specifications, (b) installed, operated, maintained, refilled, repaired, or altered improperly or otherwise than in conformity to Seller's applicable instructions, (c) maintained, refilled, repaired, or serviced by anyone other than an authorized distributor/dealer of Seller or (d) subject to misuse, accident or neglect. Seller assumes no responsibility or liability for the adequacy of any design, specification, drawing, or material furnished or specified by the Purchaser. Warranty claims shall be made to the Seller within 30-days of the alleged defect. The claim shall be made in the form of a Return Material Authorization number assigned by the Seller. It shall be the sole responsibility of Purchaser to verify with Seller whether a particular party is an authorized distributor/dealer of Seller prior to engaging such party to perform maintenance, refill, repair or service on any goods or parts provided hereunder.

2. WARRANTY AS TO SERVICES - Seller warrants that the services provided hereunder will be performed in accordance with generally accepted industry standards and practices by competent personnel. In the event that any services fail to comply with the foregoing standard within a ninety (90) day period from the date such services are completed, Seller will, at its option, provided it is promptly notified in writing upon the discovery of such failure, either re-perform such non-complying services at no additional charge or refund to Purchaser all fees theretofore paid by Purchaser with respect to such non-complying services. The foregoing remedies are the exclusive remedies for any breach of Seller's services warranty.

3. DISCLAIMER OF WARRANTIES - THE FOREGOING WARRANTIES ARE THE SOLE AND EXCLUSIVE WARRANTIES GIVEN BY SELLER IN CONNECTION WITH THE SERVICES PERFORMED AND PRODUCTS PROVIDED HEREUNDER, AND ARE IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, ORAL OR WRITTEN, WHICH ARE HEREBY DISCLAIMED AND EXCLUDED BY SELLER, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE.

4. LIMITATION OF REMEDIES AND LIABILITY - Purchaser's exclusive remedy against seller for any breach of or default under this contract (including any breach of warranty), any act or omission of seller (including its negligence), or any defect in any goods ordered or delivered hereunder (including under strict liability in tort and breaches by reason of alleged patent infringements) shall be, at the Seller's option, (a) the repair or replacement of goods with respect to which claims are made or (b) the refund of the purchase price for such goods, less a reasonable charge for any actual use thereof which has been made by the Purchaser. Any claim by Purchaser against Seller will be invalid, unless made in writing within the following time periods: (i) all claims for breach of the warranty in Paragraph 1 above must be made in writing within 30 days after the alleged defect becomes or should have become apparent to the Purchaser and prior to the expiration of the applicable warranty period; (ii) all claims for shortages must be made in writing within 10 days after receipt of the goods in respect of which any such shortage is claimed, and must be accompanied by Seller's packing slip or a photostatic copy thereof; and (iii) all other claims must be made within 30 days of receipt by Purchaser of the goods delivered hereunder. If the Seller so requests, the Purchaser must either permit Seller to inspect the goods, or if the goods have not been installed, return to the Seller any goods with respect to which any claims are made (free and clear of all encumbrances) in accordance with the Seller's shipping instructions and with shipping charges prepaid; provided that Seller will reimburse Purchaser for reasonable shipping charges actually incurred by the Purchaser at the request of Seller if it is found that any such returned goods failed to comply with the warranty set forth in Paragraph 1 above. IN NO EVENT SHALL SELLER BE LIABLE TO PURCHASER OR ANY OTHER PERSON (A) FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES OR (B) FOR DIRECT DAMAGE, OTHER THAN AS EXPRESSLY SPECIFIED IN THE FIRST SENTENCE OF THIS PARAGRAPH 4. SELLER'S AGGREGATE LIABILITY UNDER THIS AGREEMENT, WHETHER IN TORT, CONTRACT OR OTHERWISE, SHALL NOT EXCEED THE PRICE PAID BY PURCHASER FOR THE GOODS SOLD HEREUNDER.

5. TERMS OF PAYMENT AND PRICES - Subject to approval payment with respect to goods for domestic orders shipping to USA or Canada shall be due 30 days following invoice by the Seller. For international orders outside North America, unless approved otherwise, terms of payment shall be by satisfactory irrevocable letter of credit or advance payment prior to shipment as Seller may elect. Payment shall be made in the form of check, wire or irrevocable letter of credit. In no event will cash be accepted. All indebtedness outstanding after the date due shall bear interest at the rate of 1-1/2% per month or the highest rate permitted by applicable state law, whichever is less. Purchaser shall reimburse Seller for its reasonable costs and expenses, including without limitation attorney's fees, incurred in connection with the institution of legal proceedings to collect any past due indebtedness hereunder. Seller reserves the right to increase its prices and Purchaser shall pay any such increases, to compensate for variations in labor, materials, currency exchange, import surcharge, excise duty, air and ocean freight charges or other costs between the date of the purchase order, quotation or tender and the date of shipment.

6. TAXES - The price for the goods purchased does not include sales, use, excise or similar taxes, whether federal, state or local. Unless otherwise specifically provided, the amount of any such taxes applicable to the goods shall be paid by Purchaser in the same manner and with the same effect as if originally included in the purchase price. When Seller has the legal obligation to collect such taxes, the appropriate amount shall be added to Purchaser's invoice and paid by Purchaser unless and until Purchaser provides Seller with a valid tax exemption certificate authorized by the appropriate taxing authority.

7. RETURNS - Goods may be returned only with the prior written authorization of Seller in its sole discretion and subject to such restocking fee as the Seller may establish; it being understood, without limiting the generality of the foregoing, that custom-ordered goods may never be returned. Seller will refuse to accept any goods returned to it without a valid Returned Material Authorization number assigned by Seller. All goods returned to Seller must be shipped with shipping charges prepaid.

8. CANCELLATIONS; DEFERRED ORDERS; STORAGE - Orders may be canceled by Purchaser prior to shipment by at least 45 days prior notice, subject to a cancellation charge as determined by Seller in its sole discretion. Orders may be deferred or modified prior to shipment by at least 45 days prior notice, subject to such revision in price or charge for work already in progress as may be determined by Seller in its sole discretion. In addition, Seller may place in storage goods for which (a) an order has been deferred by the Purchaser or (b) shipment is delayed by Purchaser's inability or unwillingness to receive the goods. Such storage by the Seller shall be for Purchaser's account at Purchaser's expense and the goods so stored shall be at Purchaser's risk while stored, notwithstanding anything to the contrary in Paragraph 9. The Seller shall be entitled to invoice the Purchaser when Seller is ready to ship the goods, if there is a delay in shipment as herein provided.

9. DELIVERY AND FORCE MAJEURE - Shipping dates are estimates only, and Seller in no way guarantees that ordered goods will be shipped in accordance with estimated shipping schedules. Without limiting the generality of the foregoing, Seller may delay delivery of goods without any liability therefore as a result of any delay caused by events outside Seller's reasonable control that would in any way impair Seller's ability to deliver the goods in the quantities ordered at the prices quoted. If delivery is thus delayed for more than 60 days, either Purchaser or Seller may (by notice) cancel an order without liability therefor with respect to any goods remaining undelivered, provided that the remaining provisions of this contract shall remain unaffected.

10. SHIPMENT AND TITLE - Seller may make partial shipments. (All shipments made by Seller shall be EXW (Incoterms®2010) Seller's Factory, Ashland, Massachusetts. Seller shall select the method of transportation and route of any shipment. Purchaser pays all freight costs in addition to the price.) Purchaser is responsible for addressing lost or damaged shipments with the shipper. Title to all goods sold hereunder, and, except as provided in Paragraph 7 hereof, risk of loss or damage thereto, shall pass to Purchaser at the EXW point.

11. INDEMNIFICATION - Purchaser will forever defend, indemnify and hold harmless Seller from and against any and all claims, losses and expenses (including without limitation, reasonable attorneys' fees), on account of any injuries or deaths of any person (including Purchaser's employees) or damage to any property arising from Purchaser's use, unloading, handling or storage of the goods sold hereunder, except to the extent that such damages are attributable to the Seller's gross negligence or willful misconduct.

12. GOVERNING LAW - This contract shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts.

13. NON-WAIVER - Failure by either party to exercise any of its rights under this contract upon one occasion shall not be a waiver of its right to exercise the same rights on another occasion.

14. SEVERABILITY - All provisions herein are severable and unenforceability of any one provision shall not affect the validity of any other provisions hereof.

15. GOVERNMENT PROCUREMENTS – Seller offers standard commercial equipment. This standard commercial equipment may not comply with any U.S. Government specifications. Seller shall have no responsibility for ensuring such compliance. Seller supplies standard commercial pricing information. Seller does not comply with the Cost Accounting Standards (CAS) or the Federal Acquisition Regulations (FAR). In no event shall Seller provide any Cost or Pricing Data in connection with this contract or subsequent contract modification.

16. INTELLECTUAL PROPERTY RIGHTS- "Industrial" or "Intellectual Property Rights" means rights in patents, utility models, trade or service marks, trade names, copyrights (including rights in computer, firmware, software and databases) and moral rights, design rights, inventions, discoveries, confidential information, rights in know-how, and rights to all or any other industrial or intellectual property, in any format now known or hereafter devised, whether or not registered or capable of registration including, where the context allows, applications for the grant of any of the foregoing and the right to apply for any of the foregoing, and all rights or forms of protection having an equivalent or similar effect to any of the foregoing which may now exist or are hereafter created in any part of the world ("IPR"). All IPR in products, designs, documentation, data, processes, methods, and other Intellectual Property that is owned, claimed, designed, developed, generated, or produced by Seller in connection with this Agreement will be and remain the sole and exclusive property of Seller and will not be deemed to be "works made for hire" or "commissioned works." Without limiting the foregoing, Seller reserves the right to use such items for others, and to license the use of such items to others.

17. SOFTWARE LICENSE - "Software" shall mean any proprietary software of Seller provided for the ordinary operation of the Seller products, any optional software to enhance the operation of the Seller products and any upgrades or revisions of the same provided by Seller in fulfillment of this order or at Purchaser's request in relation to Seller products. Purchaser is granted a limited license for any Software and related user documentation delivered by Seller whether as part of any product or provided separately. This limited license allows Purchaser to: a) use the Software and user documentation only on the products on which it is installed at the time of delivery or, if the Software is supplied separately, in connection with the particular Seller products intended for use with such software as supplied by Seller and b) in accordance with the terms of any end user license agreements or other license terms and conditions that may be included with the Software. Purchaser may not distribute copies of Software or documentation to others. Purchaser may not decompile, reverse-engineer, disassemble, or otherwise reduce the Software to human-perceivable form or create derivative works

18. NUCLEAR INDEMNITY - To the extent that Seller's goods will be used in a nuclear facility, Purchaser hereby releases and agrees to save Seller and its subcontractors and vendors harmless from claims, liability, or exposure occasioned by injury to, or death of any person, or loss of, damage to or loss of use of property caused by, or arising, in any manner, out of a "nuclear incident", as defined in the Atomic Energy Act of 1954 as amended, whether alleged to arise out of breach of contract, tort (including negligence), warranty, strict liability, or otherwise. Purchaser shall, at its cost, secure and maintain in force insurance protection (in which Seller and its subcontractors and vendors by name or description are additional insured or beneficiaries of waivers of subrogation) against liability or loss arising out of or arising from a nuclear incident (as defined above), including the following:

- a. Nuclear property and liability insurance of the type issued by American Nuclear Insurers (ANI) or equivalent insurance, in the maximum obtainable amounts and in such form as shall meet the financial protection requirements of the Nuclear Regulatory Commission pursuant to Subsection 170(b) of the Atomic Energy Act of 1954, as amended.
- b. A government indemnity agreement with the Nuclear Regulatory Commission pursuant to Subsection 170 (c) of the Atomic Energy Act of 1954, as amended.
The insurance and indemnities required above shall be maintained in effect as to each unit on the site from the day nuclear fuel is first shipped to the site at which such unit shall be located and shall continue in effect, to the extent the same is available, for so long as such unit is operated or there is any chance of a nuclear incident.

19. EXPORT CONTROL - Purchaser agrees to conduct its operations under this Contract and perform all its responsibilities in full compliance with export and other foreign trade controls under any applicable United States (U.S.) or international laws restricting sales or transfers to other countries or parties of commodities, software, technology, or technical data. Any other provision of this Contract to the contrary notwithstanding, Purchaser agrees that no commodities, software, technology, or technical data of U.S. origin or with U.S. origin content will be sold, exported, re-exported or transmitted except in full compliance with all applicable laws, including all relevant U.S. government requirements. In addition, Purchaser shall comply with all applicable laws, including U.S. government requirements, governing the transfer of information and items to U.S. embargoed and sanctioned countries and denied and restricted parties. It shall be the responsibility of Purchaser to inform Seller of all parties to the transaction including end-user, the country of the ultimate destination and the application or end-use. Any violation of this section, as determined solely by Seller, shall be deemed a material breach of this Contract.

20. SANCTIONS AND SCREENINGS. Either Party shall have the right to cancel the purchase order without penalty, in the event screening checks produce negative results or a Sanction is imposed by a governmental body or competent authority upon a third party directly or indirectly or that otherwise has the effect of prohibiting the invoking Party from performing its obligations under the purchase order, and Seller or Buyer is/are unable to obtain appropriate government authorization to proceed in light of such Sanction within thirty (30) days of the expected delivery date as agreed to within the purchase order. In no event shall Liquidated Damages or Consequential Damages apply due to such Sanction. For purposes of this Article 20 a "Sanction" is defined as: a trade or economic embargo; a blocking or freezing of funds or economic resources; prohibitions on dealing in such funds or economic resources; prohibitions on the export, re-export, or transfer of goods or technology, or the provision of services; prohibitions on transfers of funds; travel restrictions or prohibitions; or any other trade or financial restriction as imposed by the authorized governmental body or competent authority.

21. COMPLIANCE WITH LAWS - Purchaser represents, warrants, certifies and covenants (collectively "Covenants") that it will comply with all laws applicable to the Materials, services and/or the activities contemplated or provided under these Terms, including, but not limited to, any national, international, federal, state, provincial or local law, treaty, convention, protocol, common law, regulation, directive or ordinance and all lawful orders, including judicial orders, rules and regulations issued thereunder.

22. AUDIT - Notwithstanding any provision to the contrary, Seller agrees, upon reasonable request, to substantiate that Seller's billing is in conformity with the terms of the agreement and to furnish documents verifying each charge billed to the Purchaser on a time and material basis or to the extent required by law. Seller is not required to provide other audit privileges to Purchaser.

23. COMPLIANCE WITH CARRIER CODE OF ETHICS. Purchaser acknowledges having read and understood the requirements and principles of the Carrier Code of Ethics (available at https://www.corporate-carrier.com/images/Carrier_Code_of_Ethics_03242020_tcm558-76502.pdf) and policies relating to business practices, including but not limited to compliance with policies governing Improper Payments, Money Laundering Prevention, Trade Control Compliance, Competition Law Compliance and Working With Governments, that are a fundamental part of, and incorporated into, this contract of sale. Purchaser represents and warrants it shall (i) comply with the Carrier Code of Ethics and policies or (ii) maintain its own code that satisfies the principles and expectations set forth in the Carrier code of Ethics,

(2021 Rev DF)



BANKING INSTRUCTIONS

TAX ID: 51-0305282

REMIT INSTRUCTIONS

ENTITY: KIDDE FENWAL

DOMESTIC WIRE:

Bank of America
ABA: 026009593
Account Name: Kidde-Fenwal Inc.
Account#: 53050467

INTERNATIONAL WIRE:

Bank of America
ABA: 026009593
SWIFT: BOFAUS3N
CHIP: 0959
Name: Kidde-Fenwal Inc.
Account # 53050467

DOMESTIC ACH:

Bank of America
ABA: 011000138
Name: Kidde-Fenwal Inc
Account #53050467

CHECKS (LOCKBOX):

Kidde-Fenwal, Inc.
P.O. Box 90393
Chicago, IL 60696-0393

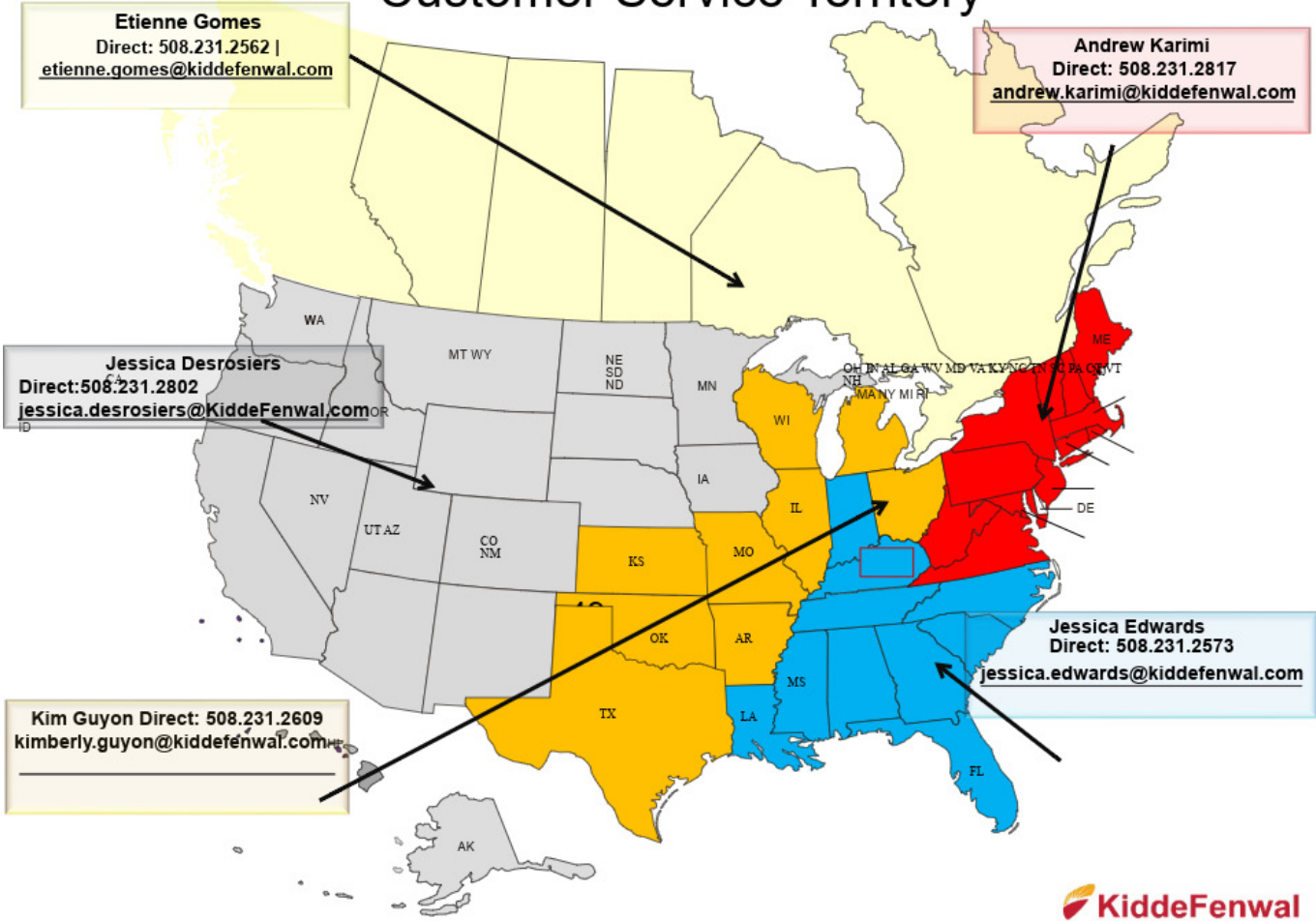
OVERNIGHT

Kidde-Fenwal Inc.
90393 Collection Center Dr.
Chicago, IL 60693

Kidde Fenwal
400 Main Street
Ashland, MA 01721

Tel (508) 881-2000
Fax (508) 881-8920
www.kidde-fenwal.com

Customer Service Territory



NORTH AMERICA SALES REGION

SALES DIRECTOR -U.S. & CANADA

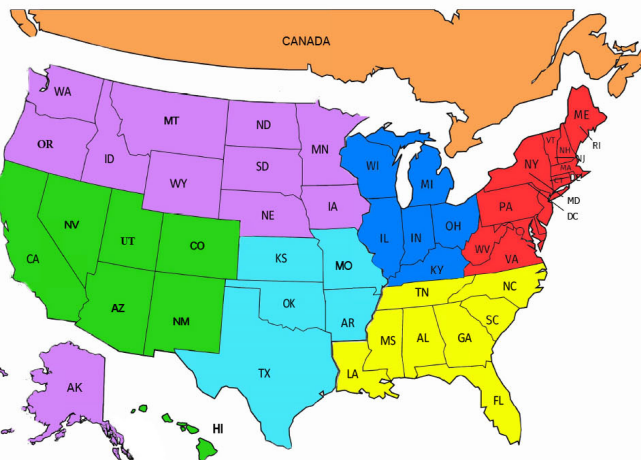
Kelly Sanderson
Mobile: 281-830-0482
kelly.sanderson@kiddefenwal.com

CANADA
Tareq El-Imam
Mobile: 647-308-6482
tareq.el-imam@kiddefenwal.com

NORTHWEST
Jon Carlisle
Mobile: 508-308-0729
jonw.carlisle@kiddefenwal.com

SOUTHWEST
Ron Parker
Mobile: 480-428-9003
ronald.parker@kiddefenwal.com

SOUTH CENTRAL
Frank Chivleatto
Mobile:
frank.chivleatto@kiddefenwal.com



NORTHEAST & MID-ATLANTIC
Peter Nardelli
Mobile: 508-878-1859
peter.nardelli@kiddefenwal.com

MIDWEST
Kevin Henning
Mobile: 508-202-2834
kevin.henning@kiddefenwal.com

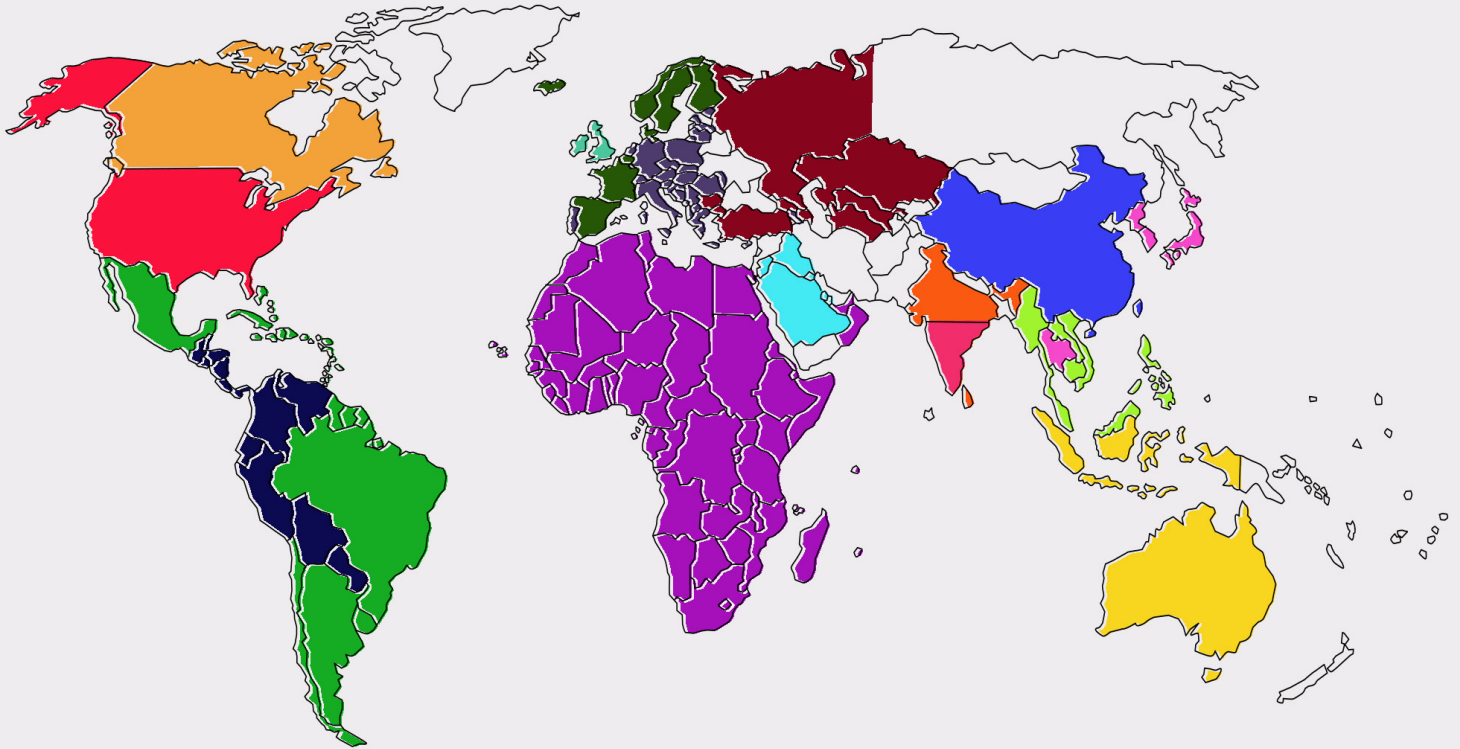
SOUTHEAST
Bob Blodgett
Mobile: 774-346-1917
robert.blodgett@kiddefenwal.com

VERTICAL MARKET MANAGERS

MARINE SYSTEMS
Scott Sullivan
Mobile: 727-515-4020
scott.sullivan@kiddefenwal.com

PRE-ENGINEERED SYSTEMS
Michael Clowdus
Mobile: 508-596-6728
michael.clowdus@kiddefenwal.com

DATA CENTER AND BESS
Jeff De Hart
Mobile: 281-505-0299
jeff.dehart@kiddefenwal.com




Global KiddeFenwal Regional Sales Managers

US & Canada

 Tareq El-Imam
tareq.el-imam@kiddefenwal.com


 See Domestic Map


Middle East

 Wissam Jabr
wissam.jabr@kiddefenwal.com

Asia & Pacific

 Theerasit Jenkijpanichkun
theerasit.jenkijpanichkun@kiddefenwal.com

 Hong Kit Yee
hongkit.yee@kiddefenwal.com

 Alvin Lee
alvin.lee2@kiddefenwal.com

 Ronald Koh
ronald.koh@kiddefenwal.com

UK & Europe

 Director – Vertical Development
Mark Mushrow
mark.mushrow@kiddefenwal.com

 Steve Sims
steve.sims@kiddefenwal.com

 Callum Bagshaw
callum.bagshaw@kiddefenwal.com

 Laura Vasbenter
laura.vasbenter@kiddefenwal.com

 Deniz Araz
deniz.araz@kiddefenwal.com

 Dániel Bognár
daniel.bognar@kiddefenwal.com


 Alana Reed
alana.reed@kiddefenwal.com

India

 Raghav Dharmender
raghav.dharmender@kiddefenwal.com

 Mohd Rafiq Shaik
mohdrafiq.shaik2@kiddefenwal.com

Latin America & Caribbean

 Tiago Marques
tiago.marques@kiddefenwal.com

 German Montoya
german.montoya@kiddefenwal.com

Middle East & Africa

 Waleed Gaber
waleed.gaber@kiddefenwal.com

Global KiddeFenwal Regional Sales Directors

Kelly Sanderson

US & CANADA

kelly.sanderson@kiddefenwal.com

Tariq Ahmad

MIDDLE EAST & AFRICA

tariq.ahmad@kiddefenwal.com

Lina Gogos

ASIA & PACIFIC

lina.gogos@kiddefenwal.com

Tiago Marques

LATIN AMERICA & CARIBBEAN

tiago.marques@kiddefenwal.com

Paul Ellis

UK & EU

paul.ellis@kiddefenwal.com

Bhawna Rajpal

INDIA

bhawna.rajpal@kiddefenwal.com

CONTACT US

Technical Support

Phone: 866-287-2531
Email: techsupport@kiddefenwal.com
Hours: 8:00am-5:00pm (EST) Monday-Friday

Customer Service

Phone: 508-881-2000
Email: domestic_cs@kiddefenwal.com
Email: international_cs@kiddefenwal.com

Applications Engineering

Email: applications@kiddefenwal.com

Please contact us for free quotes on system design and performing flow calculations.

Training

Phone: 508 -231-2710
Email: training.kfs@kiddefenwal.com

2025 US HOLIDAY SCHEDULE

Below you will find the 2025 holiday schedule, which applies to KiddeFenwal locations in the US. Sites outside of the US follow local norms.

Holiday	Date	Day of the Week
New Years Day	January 1, 2025	Wednesday
Martin Luther King, Jr Day	January 20, 2025	Monday
Spring Holiday	April 18, 2025	Friday
Patriot's Day	April 21, 2025	Monday
Memorial Day	May 26, 2025	Monday
Summer Holiday	July 3, 2025	Thursday
Independence Day	July 4, 2025	Friday
Labor Day	September 1, 2025	Monday
Thanksgiving Day	November 27, 2025	Thursday
Day after Thanksgiving	November 28, 2025	Friday
Christmas/Winter Holiday	December 25, 2025	Thursday
Winter Holiday	December 26, 2025	Friday