



ARK FIRE FIGHTING MANUFACTURE CO.



Products Catalogue

Office & Showroom:

57, 56/A, Purana Mogoltuli, Bangshal Road,
Dhaka-1100, Bangladesh.

Phone: +8802226640864

E-mail: arkfirefighting@gmail.com

Call: 01746-470343
01760-770425



Website: www.arkfirefighting.com



CLEAN AGENT FIRE SUPPRESSION SYSTEM

HFC-227ea

System Pressure : 360 PSI & 600 PSI

Cylinder Capacity : 40L, 70L, 80L, 90L, 100L, 150L, 170L



HFC-227ea Clean Agent Suppression System – Advanced, Residue-Free Fire Protection

At HFC-227 Global, we know that some environments cannot risk the water damage caused by traditional fire suppression methods. In facilities housing sensitive electronics, irreplaceable archives, or critical operations, fire must be suppressed quickly—but without introducing moisture, debris, or chemical residues. That's why we provide the HFC-227ea Clean Agent Suppression System, a proven, high-performance solution designed to extinguish fires in seconds while leaving your assets untouched.

Using HFC-227ea (Heptafluoropropane), this system delivers rapid, effective suppression against Class A, B, and C fires, with zero water and zero residue. It's trusted worldwide in data centres, control rooms, healthcare facilities, museums, and other mission-critical spaces.

What is the HFC-227ea Clean Agent Suppression System?

The HFC-227ea Clean Agent Suppression System is a fixed, total flooding fire suppression solution that uses HFC-227ea gas to control or extinguish fires in enclosed areas. Unlike water-based systems that rely on cooling through moisture, this system uses a gaseous agent to stop the combustion process without harming sensitive equipment or disrupting operations.

HFC-227ea is a colorless, odorless, electrically non-conductive gas that is stored as a liquefied compressed gas in steel cylinders. Upon activation, it discharges as a gas, filling the protected space and extinguishing the fire primarily through heat absorption and interruption of the chemical chain reaction in combustion.

Because it works without reducing oxygen to dangerous levels, the system is safe for normally occupied areas—allowing for simultaneous evacuation and suppression.

How Does the HFC-227ea Clean Agent Suppression System Work?

The system follows a precise operational sequence to ensure both rapid suppression and safety:

Fire Detection—Advanced detection devices (smoke, heat, or flame detectors) sense the presence of a fire in its earliest stage.

Signal Transmission—The fire alarm control panel processes the signal and triggers both local and remote alarms, notifying occupants and alerting emergency services.

System Release—The control panel energizes the release mechanism, opening the discharge valves on the agent storage cylinders.

Agent Discharge—High-pressure piping carries the HFC-227ea gas to strategically placed nozzles that distribute it evenly throughout the protected area.

Fire Suppression—The agent rapidly absorbs heat and disrupts the chemical reaction sustaining the fire, extinguishing flames in 10 seconds or less.

Post-Discharge Safety—Because the agent leaves no residue and is safe for short-term human exposure, no lengthy cleanup or hazardous material handling is required.

This combination of speed, cleanliness, and safety makes the system ideal for applications where downtime or equipment replacement would be costly or impossible.

Properties of HFC-227ea Agent

Physical State: Liquefied gas, discharges as a vapor

Color/Odor: Colorless, odorless

Boiling Point: -16.4°C

Density: 6.36 kg/m³ at 1 atm

Electrical Conductivity: Non-conductive

Residue: None

Toxicity: Safe for short-term exposure at design concentration

Environmental Impact: Ozone Depletion Potential (ODP) = 0

CLEAN AGENT FIRE SUPPRESSION SYSTEM

NOVEC-1230



NOVEC™ 1230 system

The Fike NOVEC™ 1230 system is armed and ready to eliminate any fire hazard at a moment's notice. Its 500 psi operating pressure provides ultimate design flexibility and ensures that the necessary amount of agent reaches every corner of the protected space in under ten seconds, extinguishing a fire in its very earliest stages.

CO2 Fire Suppression System



CO2 System Setup Type B, With Pyrocharge Actuation

Available variations:

- * CO2001-CS-450-KV
- * CO2023-BR-XXX-XX
- * CO2005-RB-015-BK
- * CO2058-RB-300-BK
- * CO2058-RB-360-BK
- * CO2002-SF-1
- * CO2019-SH-015-ZP
- * CO2024-CS-003-NA
- * CO2014-BR-003-NA
- * CO2069-BR-020-NA

FIRE EXTINGUISHER

PORTABLE ABC DRY POWDER EXTINGUISHER STORED PRESSURE TYPE



ABC Dry Chemical Powder, multi-purpose fire extinguishers are truly versatile for extinguishing Class "A" (carbonaceous material) fire. It is also used on Class "B" (flammable liquid), Class "C" (flammable gas) and electrical energise fires. This extinguisher works by forming a crust which insulates the material to prevent access to other combustible material nearby and smothering the fire to prevent oxygen from the atmosphere reacting with the material. ABC dry powder extinguishers are ideal for residential, commercial and industrial applications.

CARBON DIOXIDE FIRE EXTINGUISHER STORED PRESSURE TYPE



Carbon dioxide gas is an efficient fire extinguishing agent which offers unique properties to user. The colourless and odourless gas is heavier than air and works by smothering the flames and reducing the oxygen content of the air around the fire, Carbon dioxide is the ideal agent for use on Class B (flammable liquids) and Class C (flammable gas) fires. It is non conductive & therefore particularly effective against fires in electrical plant and equipment.

AUTOMATIC DRY POWDER FIRE EXTINGUISHER

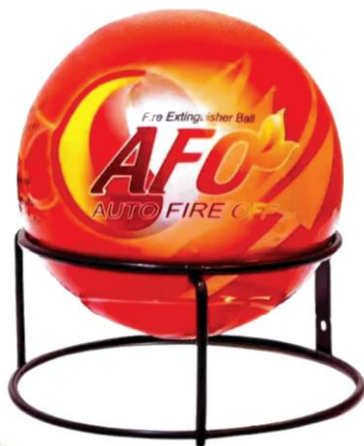


The automatic dry powder fire extinguisher is effective on all type of fires- class A, B, C & electrical. The monoammonium phosphate (MAP) and ammonium sulphate agents are non electricity conductive. It is ideal for unmanned area where continuous protection is required and a mixture of the fire risks is present. it's wide effective coverage reduces the quantity required for any area to be protected. This fire extinguisher is rechargeable.

AFF FOAM TYPE FIRE EXTINGUISHER STORED PRESSURE TYPE



The foam extinguisher puts out the fire in solids and liquids (Class A and B), but not in burning fats or cooking oils (Class F). They can be used on some electrical fires if they have been tested and if fired from 1 metre away. However, they leave a residue that has to be cleaned up.



AFO Extinguish Auto Fire Ball

- * Auto Fire Extinguisher Ball
- * 3-Seconds Automatic Reaction Time
- * 3 CBM Effective Extinguish an Area
- * 20 Square Meters Applicable scope
- * Non-Toxic Safe Around People
- * Made in China

FIRE ALARM CONTROL PANEL



- * Number of Circuits: 16
- * Main Supply Voltage: 110V AC or 240V AC
- * Internal Power Supply: 27.2V DC
- * Maximum Current: 100mA
- * Total Output Current Limited: 3A at 240VAC
- * Fire and Fault Signal Output: Yes
- * Two-level control mode by a lock
- * Low-Battery Level Protection: Yes
- * 2 General Sounders Output: Yes
- * 2 Level Control Mode by a Lock: Yes
- * Batteries (Default Configuration): 12V 2AH x 2-24VDC in Total
- * End of Line Device
 - * 6.8k Q2,5% tolerance, 0.25W (color code-blue, grey, red, gold)
- * End of Line Resistor Value
 - * 6.8k Q2,5% tolerance, 0.25W (color code-blue, grey, red, gold)
- * Dimension: 362 x 565 x 124mm
- * Weight: 8 Kg (without batteries)
- * Environmental
 - * Class A Temperature Range: -5 to 50°C
 - * Humidity: 5 to 95% RH, non-condensing



Fire Alarm Bell



Smoke Detector



Hit Detector



Sounder with Flash



Break Glass



Fire Alarm Cable

SAFETY EQUIPMENT



First Aid Box



Ear Muf & Plug



Chemical Respirator Mask



Convex Mirror



Emergency Fog Light



Fire Fighting Suits



Fire Eascap Musk



Fire Blanket



Safety Herness

SAFETY EQUIPMENTS

Personal Protective Equipments



Emergency Exit



Safety Helmet



Gum Boot



Safety Shoes



Safety Goggles



Safety Vest



Safety Hand Gloves



3M Face Musk



Caution Tep

FIRE DOOR



All of fire rated doors are fitted in strong steel door frames which will increase the level of protection. Highly preferred in all types of buildings today, these doors offer safe and secure living and ease of movement.

FIRE DOOR ACCESSORIES



Door closer



Door Coordinator



Door Hinge



Handle Lock



Handle Lock



Magnetic Door Holder



Panic Bar



Panic Bar



Smoke Seal

FIRE HYDRANT PUMP

Technical Descriptions:

Unit manufactured in accordance with NFPA 20
Maximum flow of 198.1 m³ / h
400V / 50Hz electric motor
Maximum elevation of 98.1 m
Clear water suction
Control panel
Cast iron pump body
Pressure gauges included
Compliant
AISI 420 stainless steel pump shaft
Bronze impeller



ELECTRIC PUMP

NFPA 20 Standards:

Due to the particular importance of NFPA fire pumps, the standard was developed based on material characteristics and performance. These requirements must be met for compliance with NFPA 20. Based on these conditions, it can be seen that fire pumps are quite different from other pumps. Fire pumps are designed and manufactured to provide maximum reliability and a clear output pressure value throughout their service life.

Diesel Engine Driven Split Case Fire Pump With Large Capacity For Fire Fighting (PSCD)

PSC series double suction split case centrifugal pump
Max. Flow: 4500m³/h
Max. Head: 225m
Power range: 0.75-250kw(1-340hp)
DN.:80-500mm



DIESEL ENGINE

Yeschamp Imp & Exp (Taizhou) Co., Ltd. is one of the most reliable manufacturers and suppliers of diesel engine driven split case fire pump with large capacity for fire fighting (pscd) in China. Please rest assured to buy high quality products at competitive price from our factory. Contact us for more details.

FIRE HYDRANT PUMP

Fire Pump And Jockey Pump Electric Driven Jockey Fire Pump[PV 50Hz]

- New vertical multistage centrifugal pump with pressure tank
- YE3 high efficient motor, with protection IP55 class F
- Impeller in techno-polimer
- Suction and discharge port in cast iron G20 thread
- Quality NSK bearing, wear resistance mechanical seal

Yeschamp Imp & Exp (Taizhou) Co., Ltd. is one of the most reliable manufacturers and suppliers of fire pump and jockey pump electric driven jockey fire pump[pv 50hz] in China. Please rest assured to buy high quality products at competitive price from our factory. Contact us for more details.



JOCKEY PUMP

FIRE HYDRANT EQUIPMENTS



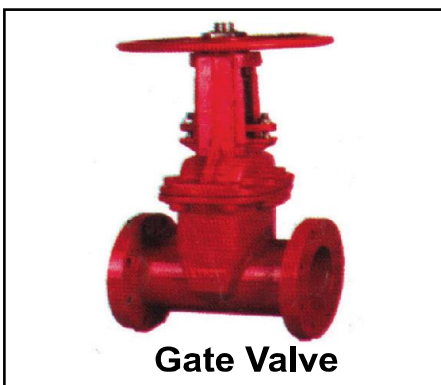
Fire Brigade Connection



Alarm Check Valve



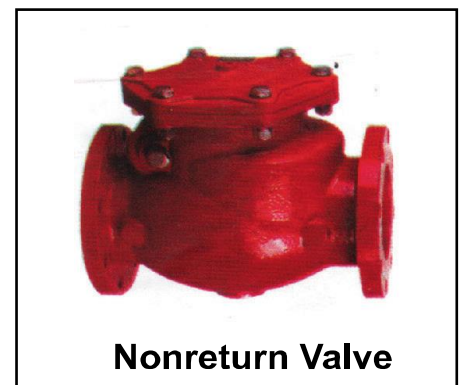
Pillar Hydrant



Gate Valve



Butterfly Valve



Nonreturn Valve

FIRE HYDRANT EQUIPMENTS



Y-Strainer



Landing Valve



Pressure Relief Valve



Grooved Fitting Fire Hydrant



Casing Relief Valve



Right Angle Valve



Springlers



Fire Hose Reel



Fire Hose Pipe



Jet Spray Nozzle



Air Vent Valve



Flow Switch



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All kinds of Fire Fighting Equipment Manufacturer, Servicing & General Order Supplier

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