



  
**GRASSHOPPER**™  
CORPORATION



# WHY CHOOSE US?



All major components are certified from one factory



Complete unit responsibility for total package



High-end comprehensive testing facility



Ready availability of spare parts for longtime support



Facility to handle mass production for large scale orders



Special testing bed for UL Listed Fire Pump Set

TM

GRASSHOPPER





## INTRODUCTION

Grasshopper Corporation is a specialized organization in global fire & building safety industry. The core activities are design, supply and installation of fire & building safety system. The company is a family member of Grasshopper Group. The group was established in 2008 and expanded its activities in fire & building safety sector in 2010. Having an energetic and efficient engineering team is our main strength. Our service quality is exclusive. We provide our services as per B.N.B.C, NFPA, British Standard and EN Standard. Our core concentration is to make our services more reasonable to our customers. We believe in relationships. Our relationship maintaining strategy differentiates us from others.

## OUR SPECIALIZATION

Since this sector is related with people's safety. "Integrity" is the key word for us for providing sound and best solution to our valued customers. We do believe and feel that our customers should get the best safety solutions and safeguarding our customer's lives & assets is what we do best. In the process we don't want our customers to be puzzled and we are trying our best to provide the most convenient solutions for them. And to ensure that, countries best engineers and technicians are working here at Grasshopper, day and night. We focus highly on research, development and training so we could improve satisfactory service for our clients; round the year.





## SERVICE FEATURES

- 1 Installation, Testing & Commissioning**  
As per BNBC & NFPA Standards
- 2 Quality Supervision and Inspection**  
With Certified Engineers
- 3 Design and Documentation**  
Complete in-house facility
- 4 Spares and Support**  
Available stock and easy sourcing
- 5 Service and Dedication**  
Dedicated project coordinator for each client
- 6 Warranty and After Sales Service**  
Standard / Extended Warranty and Free Servicing
- 7 Product Certification**  
More than 900 internationally certified products

## REPRESENTATION

- > NFPA**  
National Fire Protection Association, USA
- > FBCCI**  
Federation of Bangladesh Chambers of Commerce & Industries
- > ESSAB**  
Electronics Safety and Security Association of Bangladesh
- > BIAA**  
Bangladesh Indenting Agents Association
- > BMCCI**  
Bangladesh Malaysia Chamber of Commerce and Industry
- > DCCI**  
Dhaka Chamber of Commerce & Industry
- > DIFE**  
Department of Inspection for Factories and Establishment  
Government of Bangladesh

Authorized Partner



## FOUNDERS

**Md. Tanjir Omor Faruq**, son of Mr. Tofazzal Hossain Bhuyian and Mrs. Aleya Begum. He passed his S.S.C. examination from Mohammadpur Govt. High School & H.S.C. from Dhaka City College. He was known as a brilliant student from his school life. He was the first student to get GPA 5 in business studies group from his school. After H.S.C. he started the Association of Chartered Certified Accountants (ACCA). But he never believed in degree-based learning rather he has always been interested to learn everything which interests him or helped him further his career. To enlarge his knowledge, he has completed courses which includes neuroscience, human rights even economics. He completed "Fundamentals of Neuroscience, Part 1: The Electrical Properties of the Neuron" from HarvardX (an initiative of Harvard University), "From Poverty to Prosperity: Understanding Economic Development" from OxfordX, (an initiative of University of Oxford) "Exercising Leadership: Foundational Principles" from HarvardX, "Religion, Conflict and Peace" from HarvardX and many more. He is a very determined, sharp, self-confident, charismatic, humane and a very struggling person from his childhood. He has great excellence in business and organizational management, team building, and leading. He is an exceptional leader with charismatic personality and everlasting vision for growth and excellency. He is an international member of National Fire Protection Association - NFPA (USA), Member of Bangladesh Indenting Agents' Association, Electronics Safety & Security Association of Bangladesh (ESSAB), Bangladesh Malaysia Chamber Of Commerce & Industries (BMCCI), Rotary Club of Mirpur Central, Uttara Model Club Ltd. and BOF Golf Club (Gazipur Cantonment. He is also a Former Local Director of JCI. He is the founder Chairman at The Grasshopper Group of Companies.



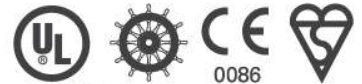
**M. Mahmudur Rashid**, son of Late Professor Md. Harun-Or-Rashid and Mrs. Hamida Begum. He is married to Ms. Farhia Nowrin. He passed his S.S.C examination from Mohammadpur Govt. High School & H.S.C from Dhaka Commerce College. In his school life he served Bangladesh Youth Red Crescent Society and Bangladesh National Cadet Core (BNCC). During his college life he involved in business. He is very self-confident, dynamic and visionary person from his childhood. He studied marketing and graduated from Ahsanullah University of Science and Technology (AUST) and completed his MBA from United International University. He did 'LCMC - Leadership Certificate in Managerial Communication' from IBA, University of Dhaka. He got professional training on 'Fire Safety Management', 'Light Engineering Technologies', 'Communication Skills Development', 'Modern HR Practice For Organizational Profitability', 'Leather Goods Design and Manufacture' and 'Rescue and Evacuation'. He is a former Local President of JCI and former president of Rotary Club of Mirpur Central. He is a Vice President of Electronics Safety and Security Association of Bangladesh (ESSAB), Director of Bangladesh Indenting Agents' Association (BIAA) & Bangladesh Malaysia Chamber of Commerce and Industry (BMCCI), Deputy Governor of RI District 3281 of Rotary International, international member of National Fire Protection Association (NFPA) of U.S.A, member of Dhaka Chamber of Commerce and Industry, Bangladesh Pipe & Tube Well Merchant Association (BPTMA, Sylhet Club Ltd, Uttara Model Club Ltd, BOF Golf Club (Gazipur Cantonment) and AUST School of Business New Curriculum Development Committee. He is also a General Body Member of Federation of Bangladesh Chambers of Commerce & Industries (FBCCI) and contributing as a Chairman and Co-Chairman of several standing committees. He is one of the founders of The Grasshopper Group of Companies and designated as a Group Managing Director.



# Products & System

## PORTABLE FIRE EXTINGUISHERS

Available in Dry Chemical Powder, Carbon Di-Oxide, Water and Foam Type.  
 Maximum capacity is 10 Ltrs / 6 KGs.  
 Complete with nozzle, belt, meter and trigger.



## HANGING TYPE FIRE EXTINGUISHERS

Available in Dry Chemical Powder only.  
 Maximum and minimum capacity is 6 KGs.  
 Complete with sprinkler, hanger and valve.



## MOBILE FIRE EXTINGUISHERS

Available in Dry Chemical Powder, Carbon Di-Oxide, Water and Foam Type.  
 Maximum capacity is 100 Ltrs  
 Complete with wheel, casing and nozzle



## FIRE DETECTION & ALARM SYSTEM



**NOTIFIER**<sup>®</sup>  
by Honeywell

NFS2-3030 intelligent fire alarm control panel is part of NOTIFIER's UL 864 9th Edition listed ONYX Series. It's designed specifically for premium range applications with features that minimize installation time, enable faster response times, and simplify maintenance and usability. Expandable to 10 Loops and maximum capacity of total 3,180 intelligent devices.

## Honeywell

MORLEY IAS  
FIRE SYSTEMS

Morley is an economic range of addressable fire detection system from Honeywell. It has 3 sizes of control panels, available in 1, 2 and 4 loops. Suitable for small & medium range of projects up to 792 addressable points per panel and panels are networkable.



**VESDA**<sup>®</sup>

Aspiration Sensing Technology<sup>®</sup> series is a line of aspirating smoke detectors that draw air into a patented, high-sensitivity smoke-sensing chamber through a pipe network. This approach enables to deliver highly accurate Standard Detection, Early Warning, and Very Early Warning. It also includes mission-critical facilities like data centers, server room etc.



# Honeywell

## ELECTRICAL CABINET FIRE SUPPRESSION SYSTEM

Electrical Cabinet Suppression (ECS) Direct Low Pressure System (DLP) . Honeywell ECS system uses the detection & suppression tubing system which is installed throughout the enclosure and connected to the cylinder valve. The tubing is charged with dry nitrogen to pressurize it inside the cylinder. The cylinder is available in 2.5 pound, 5 pound & 10 pound option, and uses the Clean Agent FK-5-1-12 (Fluoroketone)

The system uses heat-sensitive pneumatic polymer tubing that reliably detects and releases the extinguishing agent through Heat Detection Tube. Multiple temperature rated tubing options (110 or 180 degree celsius) protect a variety of hazards and equipments. Optional dual-outlet valves allow more versatility to protect larger hazards than a single valve system

**This solution is ideal for protecting :**

- Electrical Cabinets
- Transformer Cabinets
- Pump Enclosures
- UPS Units
- Data Processing Cabinets
- Generator Enclosures etc.



Parameter	FK-5-1-12	CO2
Standard for Design	NFPA 2001	NFPA 12
Design Concentration	FK-5-1-12: 4.5 %	CO2- 50%
Safety to Environment	ODP: Zero, GWP: low	ODP: Zero, GWP: High
Discharge Time	10 Sec	30 Sec
Smell/Odour	Very light smell	Colorless, Odorless
System leakage Test	Through pressure monitoring	Yearly weighing of cylinders
Pressure Rating	Medium Pressure (60 bar)	Low pressure (13.5-16 bar)



Cylinder with  
FK Agent



Heat Detection  
Tube



Pressure  
Switch



End of Line  
Adaptor



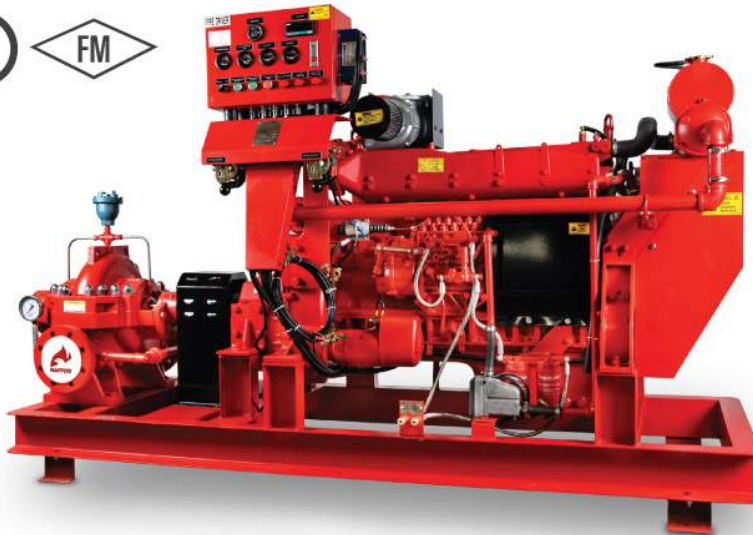
Dual  
Outlet Valve





## FIRE PUMPS

NAFFCO offers a wide range of fire pumps suitable for various fire fighting applications. NAFFCO fire pumps are calibrated to specific client requirements to ensure maximum performance. We have horizontal split case pumps, end suction pumps, vertical turbine pumps, jockey pumps and controllers. Pump systems are UL/FM approved and as per NFPA - 20 standard. Our standard pump system package includes Air Release Valve, Pressure Gauge, Pressure Switch, Flow Meter Station, Pressure Relief Valve, Battery with Charging System and Casing.



## HOSE REEL & CABINETS

Electrostatic powder coated steel sheet & stainless steel brush/mirror finish ensure a robust construction. The NAFFCO Manufacturing Division is capable of designing custom built cabinets. Hose reel cabinets and breaching inlet cabinets are manufactured to comply with BS 671-1 and BS5041-5 standards.



## VALVES & HYDRANTS

NAFFCO hydrants are designed to meet BS 14384 for Kitemark & LPCB. Well lined production facility for custom made fabrications, according to the industrial specific needs. NAFFCO valves are manufactured to comply with BS 5041-1 standards. Different types of valves are available in both threaded and flanged versions.



## FIRE HOSE & ACCESSORIES

Hoses & Accessories are manufactured according to BS 6391 standards for Kitemark / LPCB & UL 19, 219 for UL approval. Industrial type hose racks are available. Hoses are designed for a range of multipurpose applications. Compatible for wide range of applications. All hoses are maintenance-free. Various lengths and types are available. Couplings made from aluminum alloy, bronze, gun metal and chrome finish are available.



## FIRE RATED DOORS

Fire Rated, Thermal Break, Louvers, Blast Resistant, Bullet Proof, Security Doors and Rolling Shutters. Available in Steel Doors / Wooden Texture / Fully Glazed.

Upto 3 Hours Fire Rated  
Any Size Upto 10' x 10' (H x W)  
Single Leaf and Double Leaf  
Fire Rated Gypsum Partition and Ceiling



## FIRE SPRINKLER SYSTEM

A fire sprinkler system is an active fire protection system, consisting of a water supply system, providing adequate pressure and flowrate to a water distribution piping system, onto which fire sprinklers are connected.

We have 4 types of Fire Sprinkler Systems  
Pre-action, Dry Pipe, Wet Pipe and Deluge



  
**GRASSHOPPER**  
CORPORATION

## FOAM SYSTEM / FOAM PUMPS

NAFFCO Foam concentrates, Bladder Tanks and Ratio Controllers are UL listed. The range includes Foam Bladder Tank System, High Expansion Foam Generators, Water Foam Monitors and Foam Proportioner, etc. Wide range of listed products to match the requirements of both commercial and industrial sector.



## GROOVED FITTINGS

UL Listed & FM Approved threaded fittings for fire-fighting and Chilled water applications. Available in Malleable / Ductile Iron with Black or Galvanized finish. Ductile Iron Grooved fittings recommended for fire-fighting / HVAC / Water applications. Available in Red / Galvanized finish.



## STEEL PIPES & FITTINGS

Seamless & ERW Steel Pipes, Manufactured in accordance with API/ASTM, BS, UL and FM approvals. Available in Hot Dipped Galvanized, Black and Powder coating finish. Copper / Nickel / Alloy / Stainless Pipes available for order also.



## HDPE PIPES & FITTINGS

Manufactured in compliance with AWWA C906 standard, ISO 4427 standard UL, FM & WRAS approvals. Effective solution for fire fighting (underground), potable water, municipal, industrial, marine and agricultural applications.





## FIRE SUPPRESSION SYSTEM

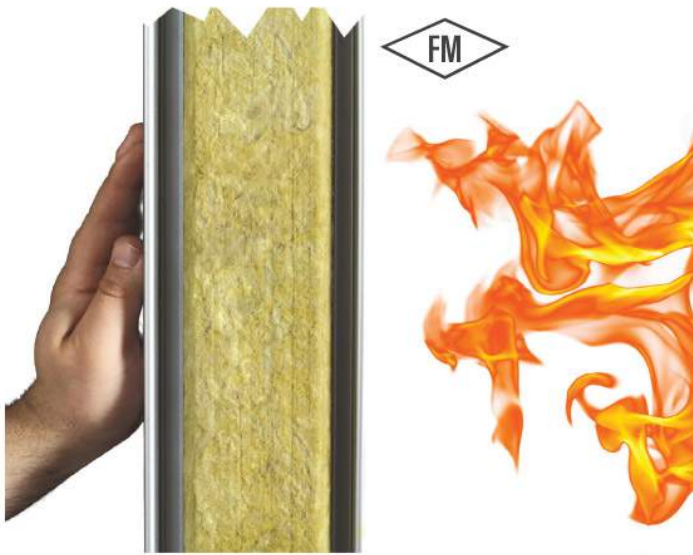
One stop smoke extraction solutions by NAFFCO. This is an ultimate smoke control solution for high rise buildings, malls, atriums, factories, stores and other occupancies. Our System consists of: Fire Rated Fans, Fire Rated Ducts, Motorized Fire & Smoke Dampers, Curtain Fire Dampers, Smoke Sensors, Smoke Vents, Smoke / Fire Curtains and Controller.

- > AFFF Foam Suppression System
- > FIRESENSE Auto Extinguishing System
- > Kitchen Fire Suppression System
- > FM200 & NAF S 125 Suppression System
- > HFC227 Clean Agent System



## WALL FACADE SOLUTION

Robust fire protection with elegance. NAFFCO provides FM and LPCB approved Rockwool Sandwich Panels, a true alternative to conventional solution for roof external wall & internal partition, with fire rated solution & design benefits. It presents the ultimate combination of aesthetics, design and function with all elements prefabricated and manufactured with the latest technologies.



## FIRE RATED PAINTS

Cementitious Paint and Intumescent Paint. It starts to swell at about 180-200°C and forms a foam layer which stops the critical heating of steel and the cement based fireproof coating has excellent physical properties for interior/architectural uses and it can give up to 4 hours of fire protection.



## EMERGENCY LIGHTING SYSTEM

NAFFCO offers a complete solution of emergency lighting system for any kind of project. We have Wall Mount Emergency Light, Ceiling Mounted Exit Light, Single / Both Side Exit Luminaire, LED Twin Spot Emergency Light, Wall Mount Emergency Light, Recessed Mount Emergency Exit Light and Recessed Mount Emergency Light.



## SMOKE MANAGEMENT

One stop smoke extraction solutions by NAFFCO. This is an ultimate smoke control solution for high rise buildings, malls, atriums, factories, stores and other occupancies. Our System consists of: Fire Rated Fans, Fire Rated Ducts, Motorized Fire & Smoke Dampers, Curtain Fire Dampers, Smoke Sensors, Smoke Vents, Smoke / Fire Curtains and Controller.



## FIRE FIGHTING TRUCKS

Wide array of firefighting vehicles ranging from municipal, industrial, rescue and rapid intervention vehicles to support vehicles that go beyond just water and foam carriers, dry powder units and trailers. NAFFCO Aerial Platforms carriers, dry powder units and trailers. NAFFCO Aerial Platforms heights of 72m. The platforms are EN 1777 compliant and options of water / foam tanks, foam system, monitor are available. Can be customized for both municipal as well as industrial applications. Chassis options: Volvo, MAN, Iveco, Mercedes.



## ARFF VEHICLES

"FALCON" series lead NAFFCO complete range of airport intervention vehicles. Designed and built to highest quality standards (Aerospace Standard AS9100) to meet and exceed the performance demanded by ICAO and NFPA 414. A perfect choice for any airport.



## AERIAL PLATFORMS

Support Vehicles for Electric Sector for distribution line maintenance up to 25 m and transmission line "bare hands" maintenance insulated ANSI A for up to 65 m. Insulator washers, lube, generator trucks are complementing the electric sector vehicle range.



## SPECIAL PURPOSE VEHICLES

Special operations require custom made vehicles. Command, Hazmat, Decontamination, Mass Casualty Support Vehicles and much more.



## EMERGENCY MOBILE UNITS



## AMBULANCES



# SOME OF OUR VALUABLE CLIENTS



## RECENT PROJECTS



**Telecom Bhaban**  
Wooden Texture Fire Rated Doors



**Bangladesh National Library and Archives**  
Fire Detection & Alarming System



**Loyal Apparels Ltd.**  
Fire Doors, Fire Detection System & Fire Hydrant System



**SML Packaging Solutions Bangladesh Ltd.**  
Fire Detection, Fire Protection and Fire Doors



**Senakunja**  
Fire Hydrant and Fire Detection System



**University of Liberal Arts Bangladesh (ULAB)**  
Fire Detection & Fire Protection System



**Berger Becker Bangladesh Limited**  
Fire Doors, Fire Detection, Fire Hydrant, Fire Sprinkler, Public Address and Foam & FM200 Fire Suppression System



**Rahman's Regnum Centre**  
Fire Doors, Fire Detection, Fire Hydrant, Fire Sprinkler and Foam & FM200 Fire Suppression System



# RECENT PROJECTS



**Matarbari USC Coal-Fired Power Project**  
Fire Fighting System



**Berger Fosroc Ltd.**  
Fire Detection System, Fire Protection System & Fire Doors



**Kadena Sportswear Ltd. (Comilla EPZ)**  
Fire Detection, Fire Doors & Protection System



**Lalmai Footwear Ltd.**  
Fire Hydrant System (20 Sheds + 4 Buildings)



**Arkay Knit Dyeing Mills Ltd.**  
Addressable Fire Detection System



**Partex Denim Ltd.**  
Fire Detection System (Beam & Aspiration)



**Yunusco (BD) Limited**  
Fire Detection System and Fire Doors



**Hazrat Shahjalal International Airport - T3 (VIP/VVIP)**  
Fire Protection & Fire Detection System

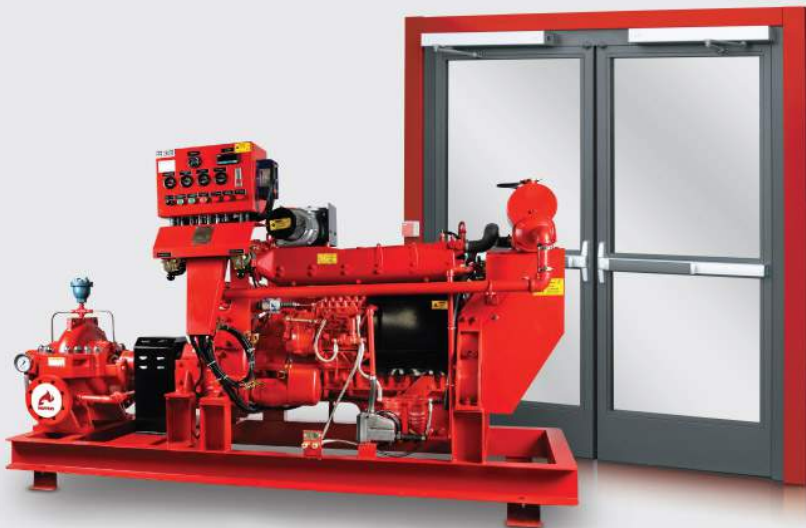
# AMC

## ANNUAL MAINTENANCE CONTRACT

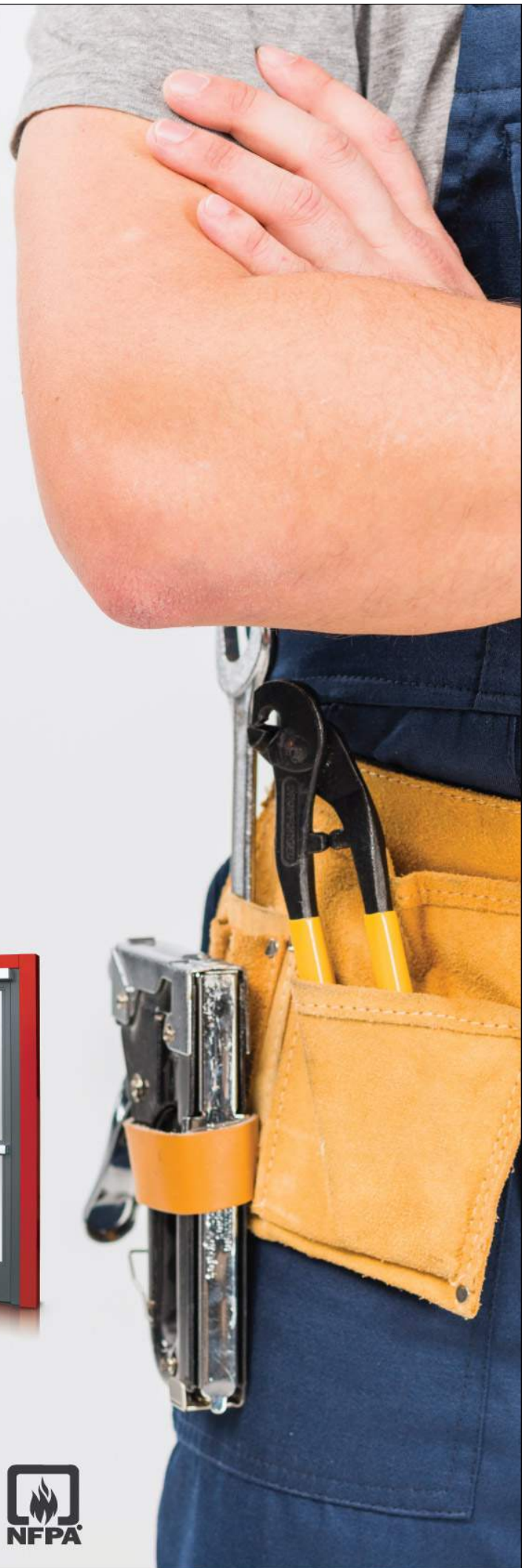
LET'S ENSURE YOUR SYSTEM IS WORKING

■ TESTING ■ REPAIRING ■ SPARES

**FIRE** PROTECTION & DETECTION SYSTEM  
MORE INFORMATION: 88 01917 960 900



  
**GRASSHOPPER**™  
CORPORATION





## *Countrywide Turn-key projects*

  
**GRASSHOPPER  
CORPORATION**

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