

Background

UNIQUE MULTI ENGINEERING LTD. as a Professional Engineering Firm in Bangladesh. We've vast experience and resources to provide Fire Detection, Hydrant, Sprinkler, structural, electrical, mechanical design based consultancy services and turnkey based product Supply & Installation solution to the clients. We are the authorized Agent of Nittan & Firex. Since its establishment in 2013, **UNIQUE MULTI ENGINEERING LTD.** it's highly skilled & professional engineers and other technical staffs are working round the clock to provide the best possible services to it's valued customers maintaining highest level of quality of products and efficient customer service. We ensure Price, Quality & Services (PQS). We always Try to Safe Life & Property.

The company activities to serve its clients are:

Mechanical, Electrical, Procurement, Manufacturing of components, Assembly and testing on site one board section and commissioning Indenting of Engineering Equipment, Plan, Machinery, Utility and service, after sales service.

These activities are carried out combined in a project.

Our scope of supply and services:

- * Fire Detection System
- * Fire Hydrant & Sprinkler System
- * Fire Rated Door (Local or UL)
- * Fire Safety Accessories
- * Suppression System
- * Evaporative cooling system
- * Ventilation system
- * Electrical Safety equipments
- * Lighting Protection System
- * Car Engine Suppression System
- * Fire Thro



Suppression System



Car Engine Suppression System





Fire Fighting Accessories







Fire Reted Cable

Extinguisher

Automatic Fire Extinguisher







Fog Light & Emergency Exit Light

Safety Accessories

Fire Ball



Technical Specification:

- * Fire Type Class A & B
- * Agent Capacity 350ml
- * Self life 2 years

Thro

Traditional fire fighting methods require people trained in fire fighting or professional firefighters. Thro was developed to provide every person with the tools to fight fire by making it as easy to use as throwing a ball. Thro is a fire extinguisher shaped in such a manner that it fits into the palm of our hands and can be thrown into fire to suppress it. Apart from being functional Thro provides an aesthetic appeal and integrates with the environment it is kept in, without looking out of place.



Fire Detection System

NITTAN



Fire Alarm Control Panel:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Power Extender:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Heat Detector:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Multi Detector:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Smoke Detector:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Detector Base:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Input-Module:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Out put-Module

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Manual Pull Station Dual Action:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Sounder with Flash:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Manual Pull Station Single Action:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Sounder:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



Isolator Module:

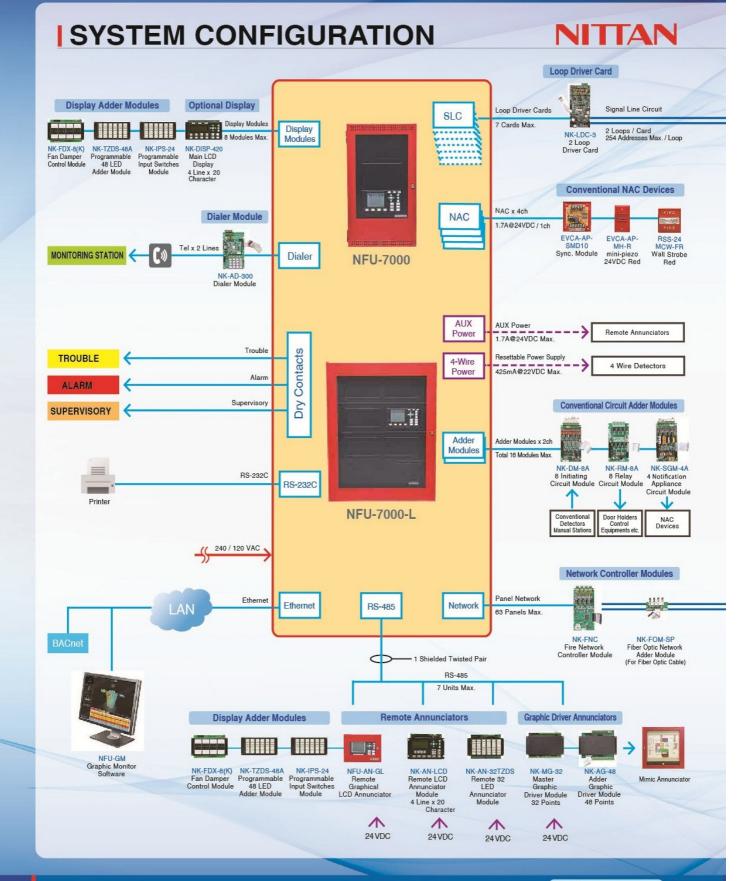
Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK



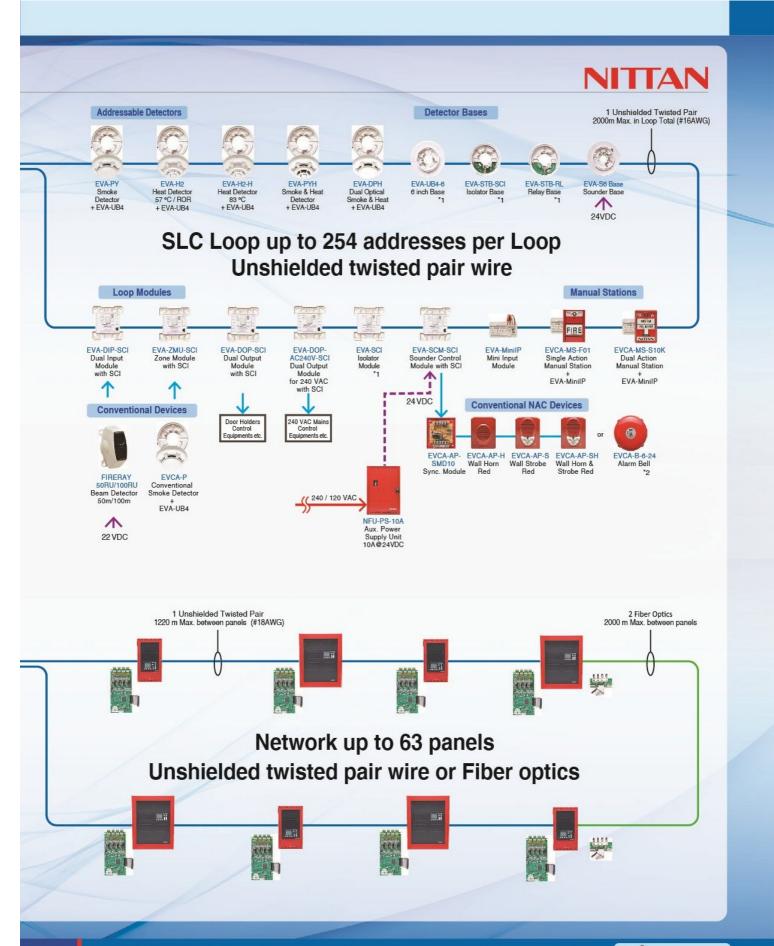
Beam Detector:

Brand: Nittan Manufacturing: Japan Certification: UL / EN 54 Shipment: UK









Fire Fighting System

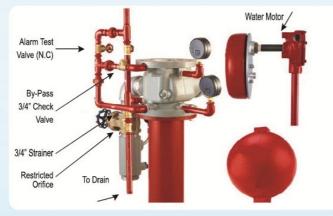
FIREX

Fire Pump Set



Brand:- Firex, Origin:- UAE

Wet Alarm Valves



CE, LPCB, UL, FM
Available in sizes 80mm upto 200mm
Flanged or grooved connections
Pre trimmed to FM or LPCB Specification
Alarm gongs
Optional retard chamber

Brand:- Firex, Origin:- UAE

Sprinkler System



Conventional sprinklers produce a spherical water discharge pattern and the Pendent / Upright produce a hemispherical water distribution pattern below the deflector. In a fire condition the heat causes the fluid in the glass bulb to expand which shatters the glass and releases the spring seal assembly. Water flows from the orifice onto the sprinkler deflector which diffuses the water into a uniform spray pattern which extinguishes or controls the fire.

Brand:- Firex, Origin:- UAE



Fire Fighting System

FIREX

Fire Hydrant System

Brand:- Firex, Origin:- UAE









Pressure Relief Valve

4-way Breeching inlet

Landing Valve

Hose Rack Assembly











Pressure Regulating Valve

Pillar Hydrant

Y-Strainer

Non Return Valve

Gate Valve (OS & Y)







Zone Control Valve Assembly

Flow-Switch

Flow-Meter





Groove Fittings

Anti Vortex Plate



Fire Doors & Accessories



Fire Duble Door



Fire Door Accessories



Fire Single Door

PA System



Horn Speaker



Ceiling Speaker



Microphone



Column Speaker

Security System



IP Camera



CC Camera



CC Camera



NVR (HD Video Recorder)



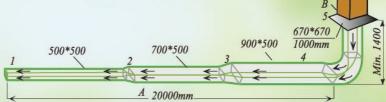
Access Control

Cooling System

Evaporative Cooling System

Brand: JH Cool, Origin: China





A. Adjustable Nozzle/Diffuser, B. Evaporative Cooling Machine, C. Air Cooling Filter Ducting & Diffuser System

Evaporative Cooling Systems is designed accurately and works properly then this is the best solution for Production floor compare to Air Conditioning System because:

- * This reduces temp. 7-10 Deg C from ambient temperature.
- * Saves running cost as electricity consumption is very less.
- * Not required to install/run ceiling fan,
- * Saves huge electricity and running cost.
- * Circulates always fresh and cold air so increase workers efficient
- * Save environment as no CFC emission.
- * Save maintenance cost



Natural Ventilation System



- Determine volume of space to be ventilated Volume (ft^3) = L x W x H Where L = Lenght, W = Width, H = Height of building
- Select Air change Rate from Table A
 Calculate required ventilation rate Q (cfm)

Q (cfm) =
$$\frac{\text{Volume (ft}^3) X Air change Rate}{60}$$

Ventilation Rate Q 4. Determine number of ventilators = **Exhaust Capacity**

A Model to Selection:

Ventilation rate Q =
$$\frac{120000 \text{ X}12}{60} = 24000 \text{ CFM}$$

Refer Table B, Select suitable Model from table is AV-600 Exhaust capacity = 1972 CFM Under wind velocity of 8 mph, temp diff of 5 degrees, stack height = 20 ft Selection is 12 Nos. of AV-600



NITTAN



Network Analogue Addressable

Fire Alarm System





Unique Multi Engineering Ltd.

A Firm of Fire Detection, Protection, Ventilation & Cooling System Solution

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