



جائزة محمد بن راشد آل مكتوم للأعمال  
MOHAMMED BIN RASHID AL MAKTOUM BUSINESS AWARD

التصدير 2005 EXPORT  
المصنعة 2006 MANUFACTURING  
المصنعة 2010 MANUFACTURING  
JAFZA

# CO2 EXTINGUISHERS



THE FIRE PROTECTION SPECIALISTS



# Introduction

National Fire Fighting Manufacturing FZCO (NAFFCO) was established in 1991 and has grown to become the largest fire fighting equipment manufacturer in the Middle East and one of the top manufacturers worldwide.

The company's core business focuses on design, manufacture, supply, installation and after sales services with our highly trained and experienced technicians and engineers for fire fighting products ranging from basic fire extinguishers to highly sophisticated fire engines. The company provides total fire protection solutions to the most prestigious developments around the world, including residential buildings, commercial complexes, telecommunication centers, industrial installations, oil refineries and petrochemical plants and airport installations.

With its presence in over 100 countries, NAFFCO headquarters is located in United Arab Emirates, where a wide range of innovative fire fighting equipment is manufactured with the company's state-of-the-art technology.

The company is renowned for providing superb quality and assuring the timely performance of its products at all times. With simple yet effective fire extinguishers of all sizes, custom made fire cabinets, heavy duty fire hoses, high capacity powerful pumps, mobile fire fighting systems, including CAFS systems, and highly advanced fire engines, NAFFCO dedicated itself to the science of fire fighting.

Moreover, NAFFCO has diversified from the passive fire protection arena and is now one of the specialists in the field of automation and control for all types of fire alarm and security systems..

NAFFCO's ISO 9001 QUALITY MANAGEMENT SYSTEM is certified by UL DQS inc, LPCB and BV. This organization endeavors to continually and effectively improve the quality of our products which are certified by international bodies like UL, FM, LPCB, BSI, SAI Global and SABS in accordance with the international standards of NFPA.

As recognition to the success of our business growth, we have been accredited with the prestigious Mohammed Bin Rashid Al Maktoum Business Award, in the year 2005 for excellence in exports, in 2006 & 2010 for manufacturing excellence under the free zones category. Furthermore as a manufacturer of complete fire protection solution provider, NAFFCO has also been recognized by the Dubai Quality Appreciation 2008, which is a testimony to our commitment to quality and consistent focus on business excellence.

Motivated by our motto "Think Safety, Think NAFFCO!" we strive to be the global leader in providing comprehensive and reliable fire protection solutions to make the world a safer place to live in.



Australian Standard

## PORTABLE CARBON DIOXIDE EXTINGUISHERS

Carbon Dioxide gives fast, safe and effective protection for fires involving electrical equipment and flammable liquids. CO<sub>2</sub> is recognized for its non-damaging, highly effective performance and cleanliness. They are generally suited for indoor use, making them ideal for today's office environments.

Model	NC2	NC5L	NC3	NC10L	NC5	NC6
Extinguisher capacity	2Kg	5Lbs	3Kg	10Lbs	5Kg	6Kg
Fire Rating	34B	34B	34B	55B	55B	70B
Test Pressure	250 Bar					
Total Weight	8.1 Kg	8.3 Kg	11.0 Kg	15.7 Kg	17.0 Kg	19.5 Kg
Range of Discharge	4-5m	4-5m	4-5m	4-5m	4-5m	4-5m
Duration of Discharge	8 Sec	10 Sec	10 Sec	12 Sec	13 Sec	15 Sec
Height with Valve	63cm	63cm	64cm	68.5cm	73.5cm	83.5cm
Hose Length with Horn	--	--	--	75cm	75cm	75cm
Operation Temperature	-20° C to +60°C					

### FEATURES:

- Manufacturing Standard is BSEN3.
- Simple operation and maintenance.
- Exceptionally effective on class B, C & Electrical fire.
- Portable and compact design.
- 56 bar working pressure at 20°C for maximum fire fighting performance.
- Cylinder deep drawn for higher tensile strength.
- Cylinder made of special steel to withstand high pressure, tested at 250 Bar.
- High-grade brass head assembly ensures reliability and optimises efficiency.
- Unbreakable rising pipe made of aluminum to ensure long lasting life.
- High Gloss polyester powder painted UV stabilized after shot-blasting ensures corrosion resistance under extreme condition.
- Safety valve is fitted in each extinguisher for maximum safety.
- Discharge nozzle designed to produce a jet of extinguishing gas for fast fire suppression.
- Special hangers for wall mounting.

### APPLICATIONS:

- Flammable Liquid Storage Areas
- Food Storage and Processing Plants
- Airports
- Telephone Equipment Rooms
- Data Processing Centers
- Engine Rooms
- Chemical Plants and Laboratories
- Quench Tanks
- Petrochemical Industries
- Spray Booths
- Electrical Control Panels
- Control Rooms



### CO<sub>2</sub> AGENT

- Completely safe fire extinguishing agent
- CO<sub>2</sub> of 99% purity is produced in-house
- Colorless and odourless agent, hence would not contaminate food and other valuable materials
- Highly effective for use on electrical equipment without any risk to operator

# MOBILE CARBON DIOXIDE EXTINGUISHERS

## FEATURES:

- Manufacturing Standard is BSEN1866-1.
- Cylinders are made of seamless carbon-manganese pipes which have high mechanical properties.
- Cylinder designed to withstand high pressure and tested at 250 Bar.
- High-grade brass head valve ensures reliability and optimises efficiency.
- Head valves are either lever operated or rotary operated.
- Unbreakable rising pipe made of aluminium to ensure long lasting life.
- High Gloss polyester powder painted UV stabilized after shot blasting ensures corrosion resistance under extreme condition.
- Safety valve is fitted in each extinguisher for maximum safety.
- Discharge nozzle designed to produce a jet of extinguishing gas.

## SINGLE CYLINDER

Model	NTC10	NTC12	NTC25	NTC30	NTC45
Extinguisher capacity	10Kg	12Kg	25Kg	30Kg	45Kg
Fire Rating	70B	70B	89B	113B	144B
Test Pressure	250 Bar				
Total Weight	43Kg	50Kg	78Kg	83Kg	125Kg
Range of Discharge	4-5m	4-5m	4-5m	4-5m	4-5m
Duration of Discharge	25Sec	30Sec	60Sec	70Sec	100Sec
Height with Valve	125cm	149cm	142cm	142cm	163cm
Hose Length with Horn	2m	2m	5m	5m	7m
Operation Temperature	-20° C to +60°C				



## DOUBLE CYLINDER

Model	NTC20	NTC50	NTC60	NTC90
Extinguisher capacity	20Kg(2x10)	50Kg(2x25)	60Kg(2x30)	90Kg(2x45)
Fire Rating	89B	144B	144B	144B
Test Pressure	250 Bar			
Total Weight	80Kg	190Kg	250Kg	280Kg
Range of Discharge	4-5m	4-5m	4-5m	4-5m
Duration of Discharge	50Sec	125Sec	150Sec	220Sec
Height with Valve	125cm	142cm	142cm	163cm
Hose Length with Horn	5m	7m	7m	7m
Operation Temperature	-20° C to +60°C			



**Special Telescopic Lancer Horn**

## OPTIONS

- Carbon Dioxide trolley with special discharge hose and horn to use in high reach hazardous area is also available.
- Special nozzle for Aircraft protection is available upon request.

## CO<sub>2</sub> MULTIPLE CYLINDER WITH HOSE REEL UNIT

### FEATURES

- Cylinders are made of seamless carbon-manganese pipes which have high mechanical properties.
- Cylinder defined to withstand high pressure and tested at 250 Bar.
- High-grade brass head valve ensures reliability and optimises efficiency.
- High Gloss polyester powder painted UV stabilized after shot blasting ensures corrosion resistance under extreme condition.
- Safety valve is fitted in each cylinder for maximum safety.
- Long discharge nozzle and hose to protect the operator from heat, smoke and flames.
- Specially designed discharge hose and horn to increase the flexibility of operations.
- Discharge of agent is via delivery hoses mounted on a hose reel.
- Hose is available in standard length of 20m.
- Other lengths of 30m, 45m and 50m are available upon request.

Model	NTC20	NTC60	NTC90
Extinguisher capacity	30Kg(1x30)	45Kg(1x45)	90Kg(2x45)
Test Pressure	250 Bar		
Total Weight	83Kg	123Kg	246Kg
Range of Discharge	5-7 M	5-7 M	5-7 M
Hose Length with Horn	20m	20m	20m
Operation Temperature	-20° C to +60°C		



## SKID MOUNTED CO<sub>2</sub> EXTINGUISHING SYSTEM

### FEATURES

- Custom-built to meet client requirements.
- Capacity ranges upto 900kg.
- Exceptionally effective to protect equipment or processes in areas that are not occupied by people.
- The system can be activated either automatically or manually.
- Discharge is done through a hose reel system with special applicator horn.
- Hose is available in standard length of 20m, Other lengths of 35m,45m and 50m are available upon request.
- Special marine painting available for offshore or coastline application.

### Applications:

- Flammable Liquid Storage Areas
- Telecommunication Equipment
- Turbine Generators
- Industrial Ovens
- Dust Collectors
- Food Processing equipment
- Switch Gear Rooms
- Printing Presses
- Chemical Processing Equipment
- Tape Storage Enclosures
- Marine Applications
- Coating Machines
- Rolling Mills
- Paints Spray Booths
- Engine Compartments



**Model** : NSC 900  
**Capacity** : 900kg



Australian Standard



### QUALITY SYSTEM

National Fire Fighting Manufacturing FZCO is certified to ISO 9001 Quality system by UL DQS Inc, Loss Prevention Certification Board UK & Bureau Veritas. Our manufacturing processes are based on a quality system that ensures the use of raw material confirming to relevant International Standards. Our In process production is monitored by work standards & quality plans confirming to relevant International standards enabling us to deliver quality products.

### APPROVALS

NAFFCO has successfully achieved ISO 9001 Quality Management system certified by UL, LPCB & BV. Further we have achieved Product certification from UL, FM, LPCB, BSI, CE & SAI Global on wide range of products which include Fire Extinguishers, Fire Hose Reels, Centrifugal Fire Pumps, Diesel Engine for driving Fire pumps, Fire doors, Fire Fighting equipment & Certification for Fire Alarm systems installations.

### ENGINEERING CAPABILITIES

NAFFCO is backed by a team of professionals who are well qualified and specialized in their respective field viz - Design, Development, Production and Project Implementation. Our investment in applied research and development program concentrates on innovations which meets customer needs.

### PRODUCT RANGE



Hoses & Accessories



Extinguishers



Reels & Cabinets



Valves & Hydrants



Suppression System



Low Voltage Systems



Pumps



Fire Doors



Fire Trucks



NFPA & Training



Valves & Riser



CAFS



Passive Fire Protection

We reserve the right to modify specifications without prior notice

**Our Aim is to become your supplier of choice while focusing on value added products and services that matter most to you**



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