



# LINGJACK

2023  
Basic fire-fighting products. Active fire-fighting systems.  
Customized solutions for any fire protection  
that work in all industries.  
MAY 2023 EDITION.



## COMBAT®

# CATALOGUE

WE ARE YOUR TRUSTED GUARDIAN GIVING YOU TOTAL PEACE OF MIND

Fire extinguishers, hose reel, hydrant valves, sprinkler, alarm valves, alarm panel, foam pump, cabinets,  
Fire hose reel systems, gas suppression systems, foam systems, wet & dry riser systems, deluge systems,  
kitchen — wet chemical systems, dry powder systems, big flow systems, etc.

[www.lingjack.com](http://www.lingjack.com)

# ABOUT LINGJACK

It took us 30 years to build a strong foundation and to learn the true art of business. We pride ourselves as being a class leader in the business we are involved in, and the employer of choice.

Nothing is greater than a team of committed staff with the same Vision to excel in the business. Excellence is the foundation of everything we do!

Not only that, we are continuously looking for good investment opportunities to grow ourselves so that we can attract the right people to manage the organisation.

CSR is a major part of our culture and we believe in giving back to society. Every month we have opportunities to get involved in social activities and grow hand in hand with society.

Within the firefighting industry, Lingjack is a leading manufacturer and provider of high-quality fire safety products & solutions in Asia with excellent services. We are capable of providing full turnkey solutions for all firefighting products and systems.



**Extended portfolio  
to other fire-safety  
products & accessories**

**ISO 9002**  
1st in Singapore

**LPCB (UK)**  
Products  
Certification

**Overseas  
Distribution  
Network  
Expansion**

1971

1980

1990

2000

**SISIR  
Quality Mark**  
1st in Singapore

**LINGJACK**  
ENGINEERING WORKS  
PTE LTD

**COMBAT**  
FIRE EXTINGUISHERS



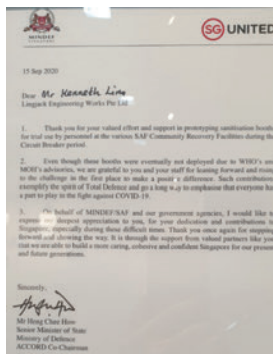


After 30 years of building our basic business skill, Lingjack starts to branch out.

Middle East Market Expansion

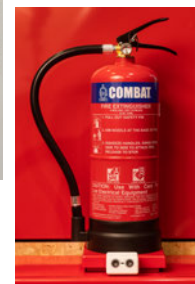
Wheel Mark (MED)

2010



Lingjack Smart Monitoring & Control System

2020



2022

# HISTORY

2005

LINGJACK & OFFSHORE MARINE (Singapore)

2002

LINGJACK ENGINEERING SDN BHD (Malaysia)

2018

PT LINGJACK JAYA ABADI (Indonesia)

2012

LINGJACK FIRE (Singapore/Asia Pacific)



# DISTRIBUTORSHIP & AREA



**Akron Brass**  
**Monitors & Nozzles**  
Industrial



**Tyco Water Products**  
Asia



**Buckeye Fire USA**

Asia

- \*UL Listed Fire Extinguishers,
- \*UL Listed Bladder Tanks, Foam Concentrates
- \*UL Listed Wet Chemical Kitchen Systems



**Siex Spain Gas Suppression Systems**

Singapore

\*IG 01, 55, 100, 541, FM200, Novec 0123, CO2



**FireLion USA UL/FM Listed**  
**Foam Pump and Skids**

Asia



*The Right Connection®*

**Dixon USA Industrial**  
**Fire Fighting Products**  
Singapore



INTERNATIONAL DIVISION

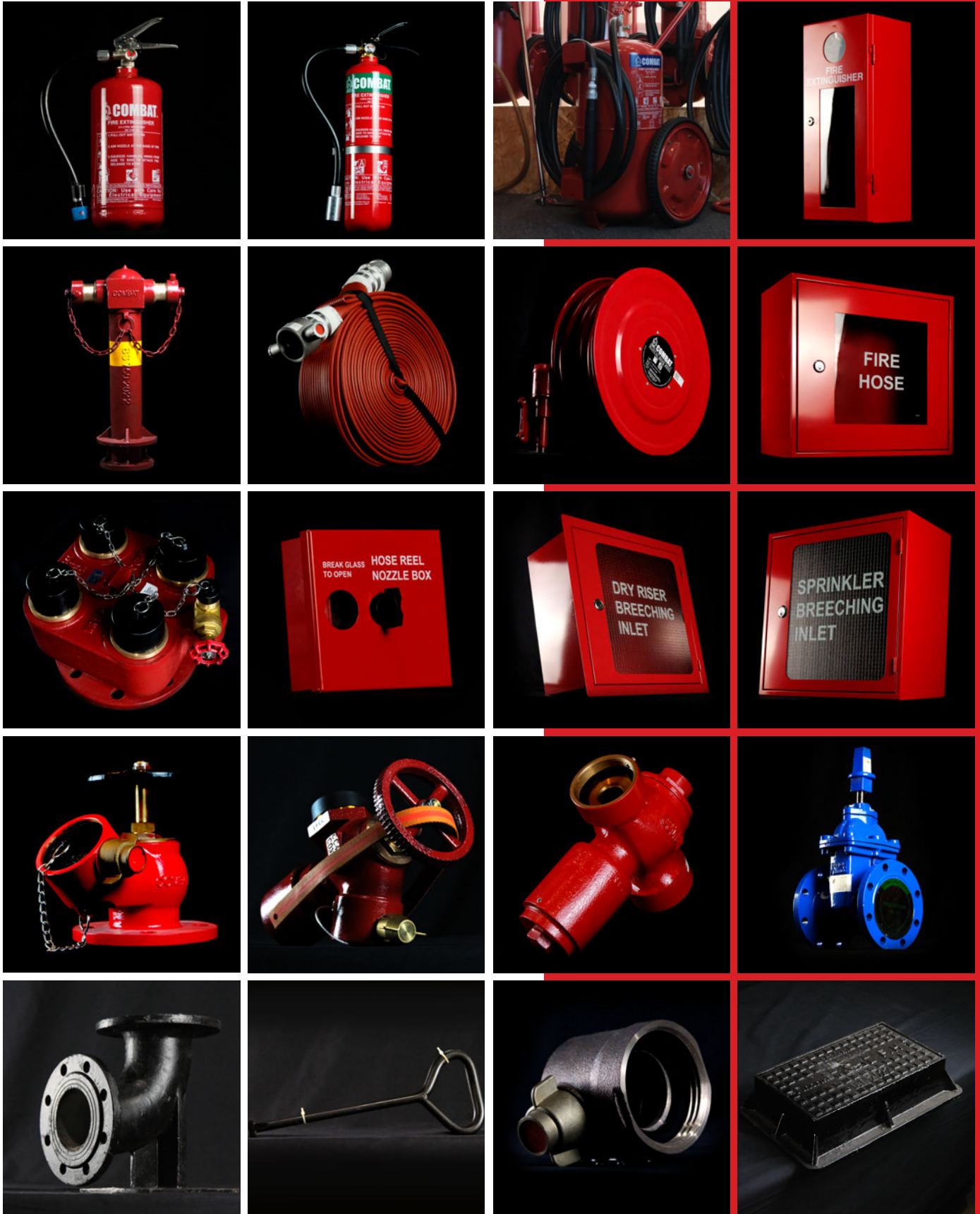
**Mueller USA UL Listed**  
**Fire Hydrant & Gate Valves**  
Asia



**Orchidee Powders & Foam**  
Asia

# OUR RANGE OF PRODUCTS

Full turnkey solutions for all firefighting products and systems, from Basic fire-fighting products: Fire extinguishers, hose reel, hydrant valves, sprinkler, alarm valves, alarm panel, foam pump, cabinets, etc....



.... to Active fire-fighting systems:  
Fire hose reel systems, gas suppression systems, foam systems, wet & dry riser systems, deluge systems, kitchen — wet chemical systems, dry powder systems, big flow systems, etc....

# CUSTOMISED SOLUTIONS

Our clients span across a diverse range of industries, including commercial, industrial, residential, offshore and marine, F&B, healthcare and retail. Our international network includes clients from Asia, USA, Europe and the Middle East.

We maintain a spirit of innovation by using the latest technology to develop high quality and high performance fire safety products. From design and development to testing and implementation, our dedicated and experienced engineering team ensures attention to detail at every step to achieve the highest standards of quality and service. We work closely with our clients at every phase of a project to provide customised fire safety systems and solutions that meet and exceed expectations.

Our commitment to quality has enabled us to achieve international certifications including ISO 9001, LPCB, MED (Wheel Mark), as well as third-party approvals - Det Norske Veritas (DNV), American Bureau of Shipping (ABS), Germanischer Lloyd (GL), Lloyd's Registered (LR) and Bureau Veritas (BV).

We continue to streamline our processes and improve our systems to introduce safer, better and more cost-effective fire safety solutions to meet the increasingly complex fire safety needs and most importantly, to fulfil our mission of protecting people, assets and businesses.

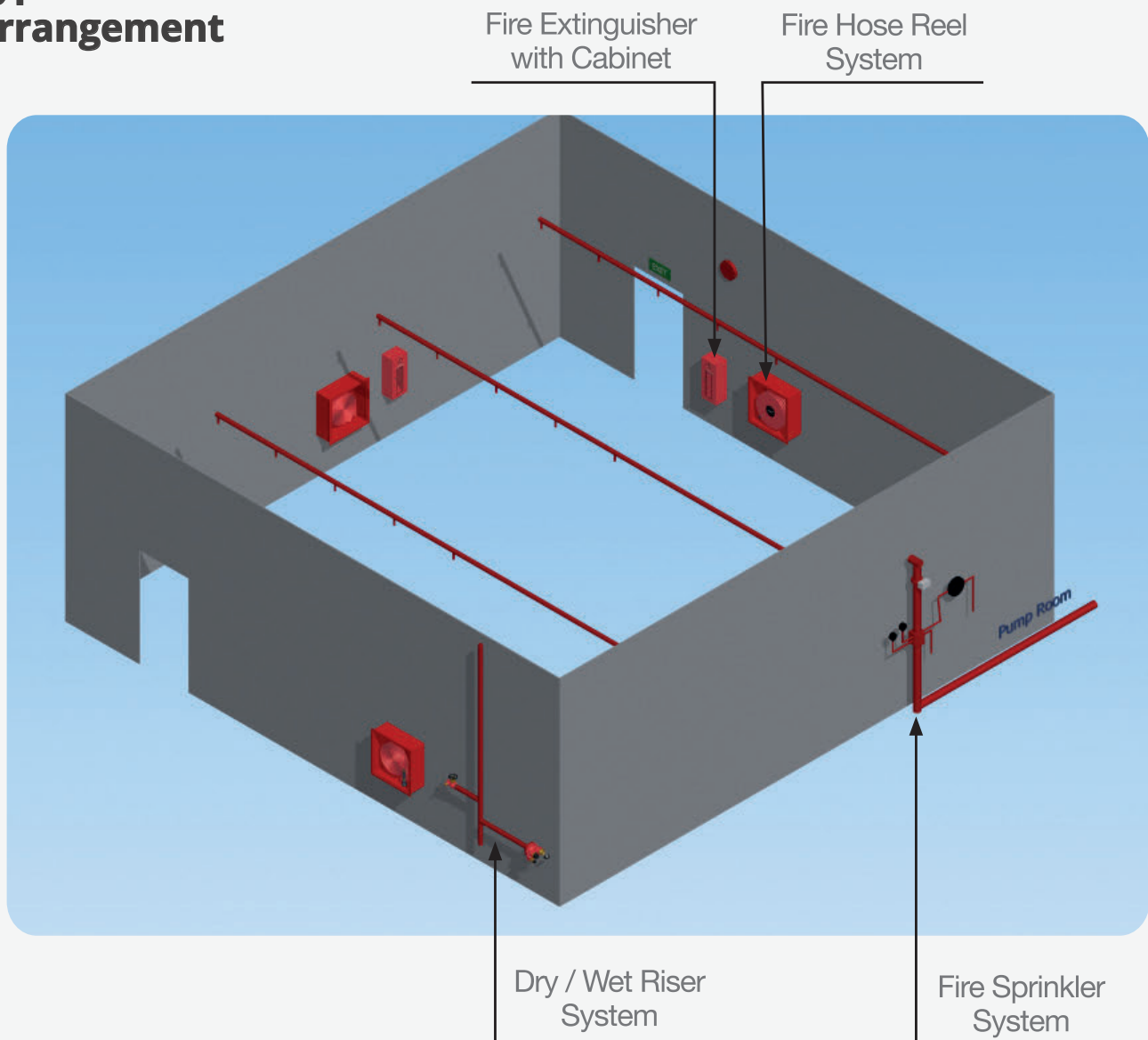




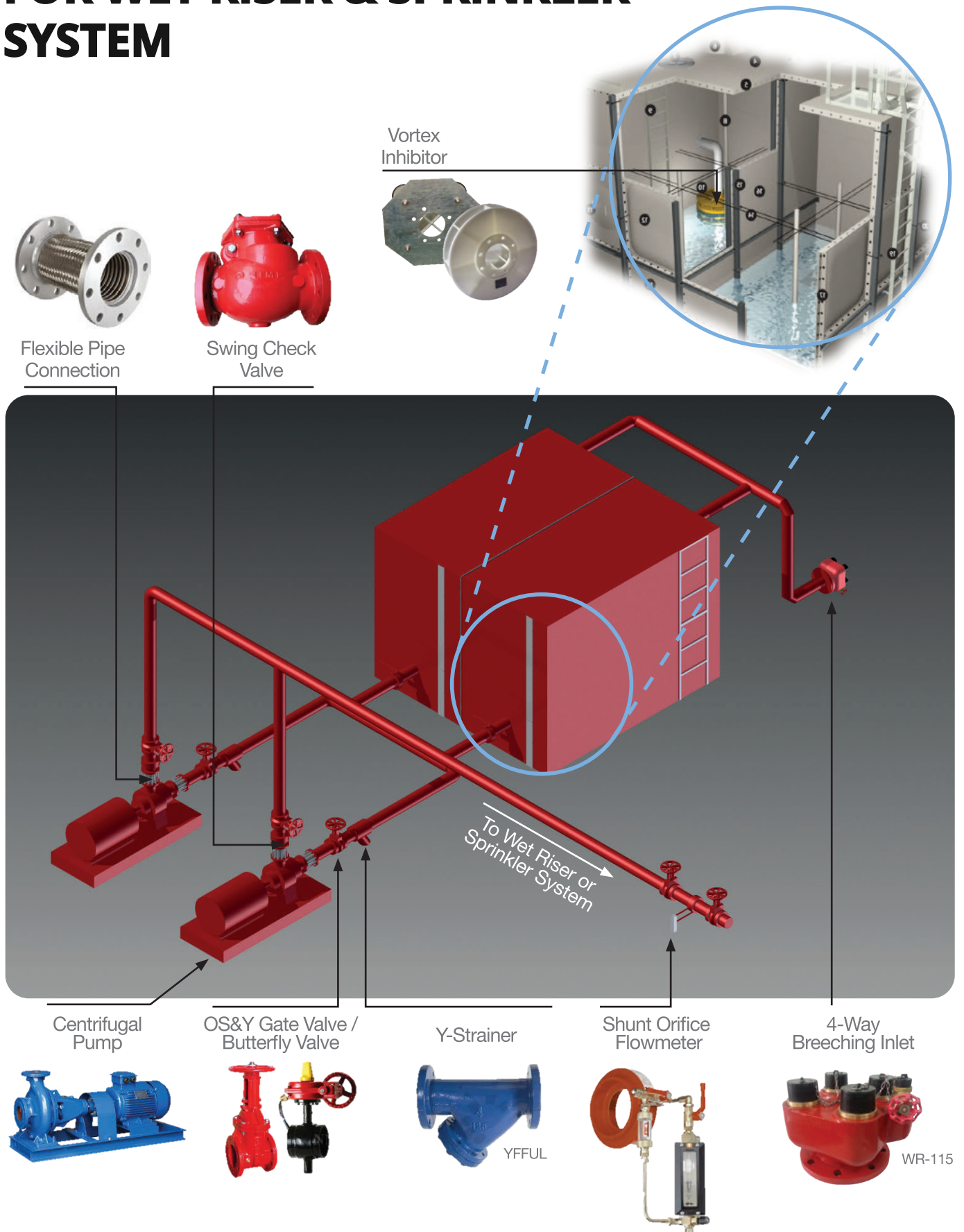
# FIRE PROTECTION SYSTEMS & EQUIPMENTS

Lingjack provides a comprehensive range of reliable and proven fire safety solutions for both commercial and industrial premises. Active fire protection is an integral part of the fire safety strategy of a building. The most common combination of fire suppression systems that are installed within a building to provide an adequate level of fire safety includes Fire Extinguishers, Fire Hose Reel System, Fire Sprinkler System and Wet or Dry Riser System.

## Typical Fire Protection Arrangement



# TYPICAL PUMP ROOM LAYOUT FOR WET RISER & SPRINKLER SYSTEM







### OS&Y Gate Valve



<b>BRAND</b>	TYCO
<b>MATERIAL</b>	Ductile Iron
<b>SIZE AVAILABLE</b>	2", 2 1/2", 3", 4", 6", 8", 10" & 12"
<b>WORKING PRESSURE</b>	20.87 bar
<b>CONNECTION</b>	Flange/Flange, Flange/Groove, Grove/Groove



### Swing Check Valve



<b>BRAND</b>	TYCO
<b>MATERIAL</b>	Ductile Iron
<b>SIZE AVAILABLE</b>	2", 2 1/2", 3", 4", 6", 8", 10" & 12"
<b>WORKING PRESSURE</b>	20.7 bar
<b>CONNECTION</b>	PN16, ANSI B16.1 Class 125



### Vortex Inhibitor



<b>BRAND</b>	Vortibreak
<b>MATERIAL</b>	Low Carbon Steel
<b>SIZE AVAILABLE</b>	3", 4", 6", 8", 10", 12", 14", 16" & 18"



### Butterfly Valve with Gear Operator



<b>BRAND</b>	TYCO
<b>BODY MATERIAL</b>	Ductile Iron
<b>SIZE AVAILABLE</b>	2", 2 1/2", 3", 4", 5", 6", 8", 10", 12"
<b>WORKING PRESSURE</b>	20.7 bar (2"-8"), 12.1 bar (10"-12")
<b>CONNECTION</b>	Grooved joint dimension in accordance with ANSI/AWWA C606 and metric pipe specification



### Supervisory Switch



<b>MODEL</b>	TOSY
<b>BRAND</b>	TYCO
<b>FINISHING</b>	Cover: Die-cast Finish, Powder Coat Base: Die-cast Finish
<b>CONTACT RATING</b>	TOSY-1: One set of SPDT Contacts TOSY-2: Two sets of SPDT Contacts 10.00 Amps at 125/250 VAC 2.50 Amps at 30 VDC resistive
<b>TEMP. RANGE</b>	-40°C to 62°C



### 4-Way Breeching Inlet



<b>MODEL</b>	WR-115
<b>BRAND</b>	COMBAT ®
<b>INLET</b>	Gunmetal Instantaneous Male to BS336 c/w Non Return Valve
<b>OUTLET</b>	150mm PN 16
<b>DRAIN VALVE</b>	25mm Gate Valve
<b>DESIGN PRESSURE</b>	15 bar
<b>FINISHING</b>	Red color for sprinkler system
<b>DESIGN</b>	Accordance to BS 5041-3



### Wet Riser/Sprinkler Breeching Inlet Cabinet

<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Electro Galvanised Steel or Stainless Steel
<b>SIZE</b>	2 Way: 595 (W) x 295 (D) x 395mm (H) 4 Way: 595 (W) x 295 (D) x 595mm (H)
<b>FRAME &amp; DOOR SIZE</b>	2 Way: 595 (W) x 395 (H) x 100 (D) x 38mm (Frame) 4 Way: 595 (W) x 595 (H) x 100 (D) x 38mm (Frame)
<b>LOCK TYPE</b>	Spring Lock
<b>FINISHING</b>	Red Polyester Powder Coated or Hairline

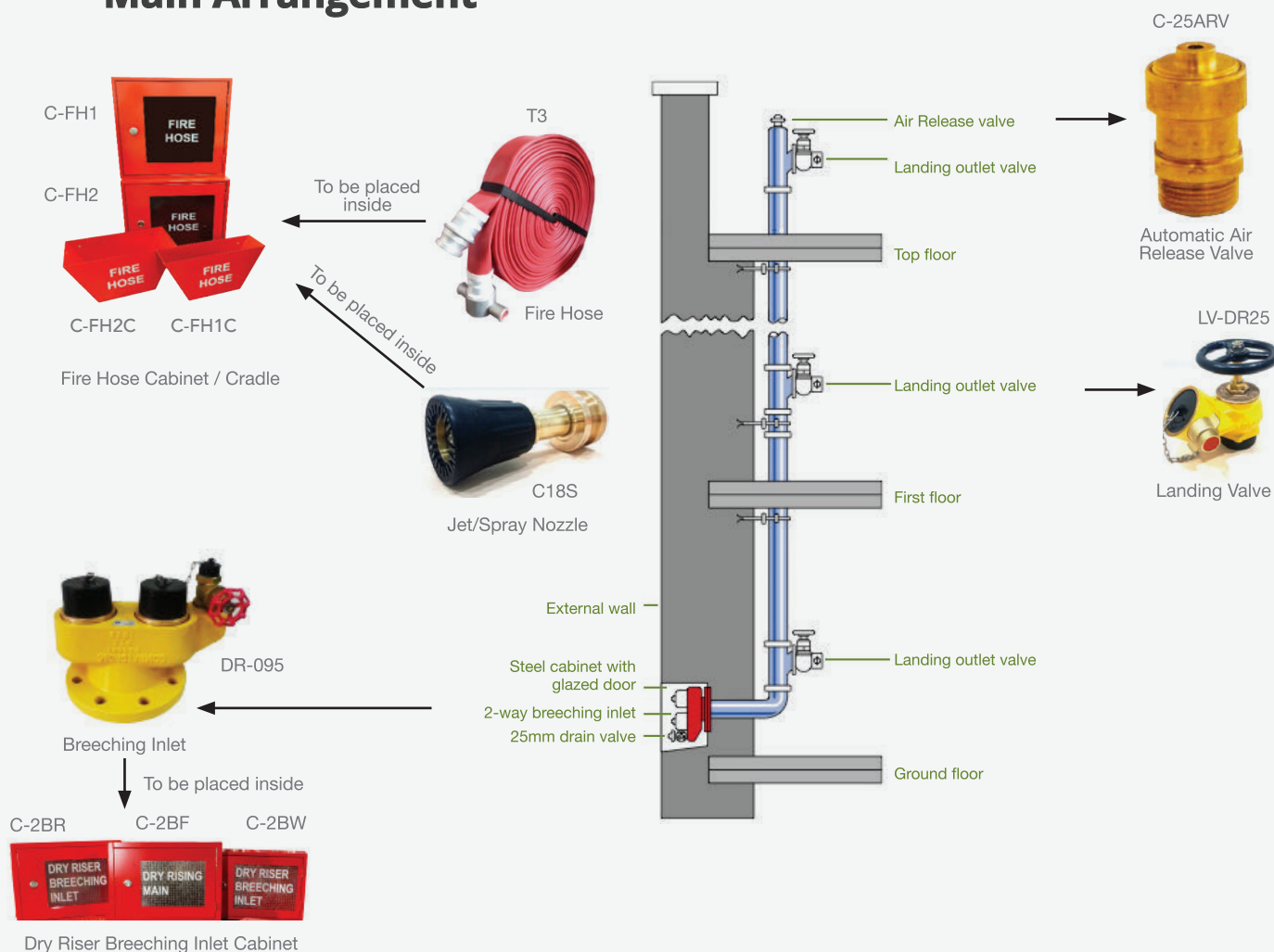
# DRY RISER SYSTEMS

COMBAT® Dry Riser Systems provide effective fire safety protection for high-rise buildings. Our systems include a complete range of products - Breeching Inlets, Landing Valves, Pressure Regulating Valves, Pressure Relief Automatic Air Release Valves, Fire Hoses and Cabinets which are designed, manufactured, installed, maintained and tested in accordance with international standards.

A dry riser is a system of pipework and valves that is required in buildings over 10m tall (not exceeding 60m) to enable a steady supply of water delivered to all floors for firefighting purposes. It consists of a vertical pipe with landing valves fitted in cabinets on each floor and a breeching inlet fitted at ground level to enable the Fire Service to connect to the water supply.

The pipes in dry risers are empty and are only charged with water by the fire fighters when they arrive by pumping from a fire service appliance via a breeching inlet housed in a protective cabinet at ground level. An air release valve is fitted to the highest point to dispel air in the pipework when it is charged with water. The dry rising mains should not exceed 60m to avoid excessive pumping pressure.

## Typical Dry Riser Main Arrangement



# WET RISER SYSTEMS

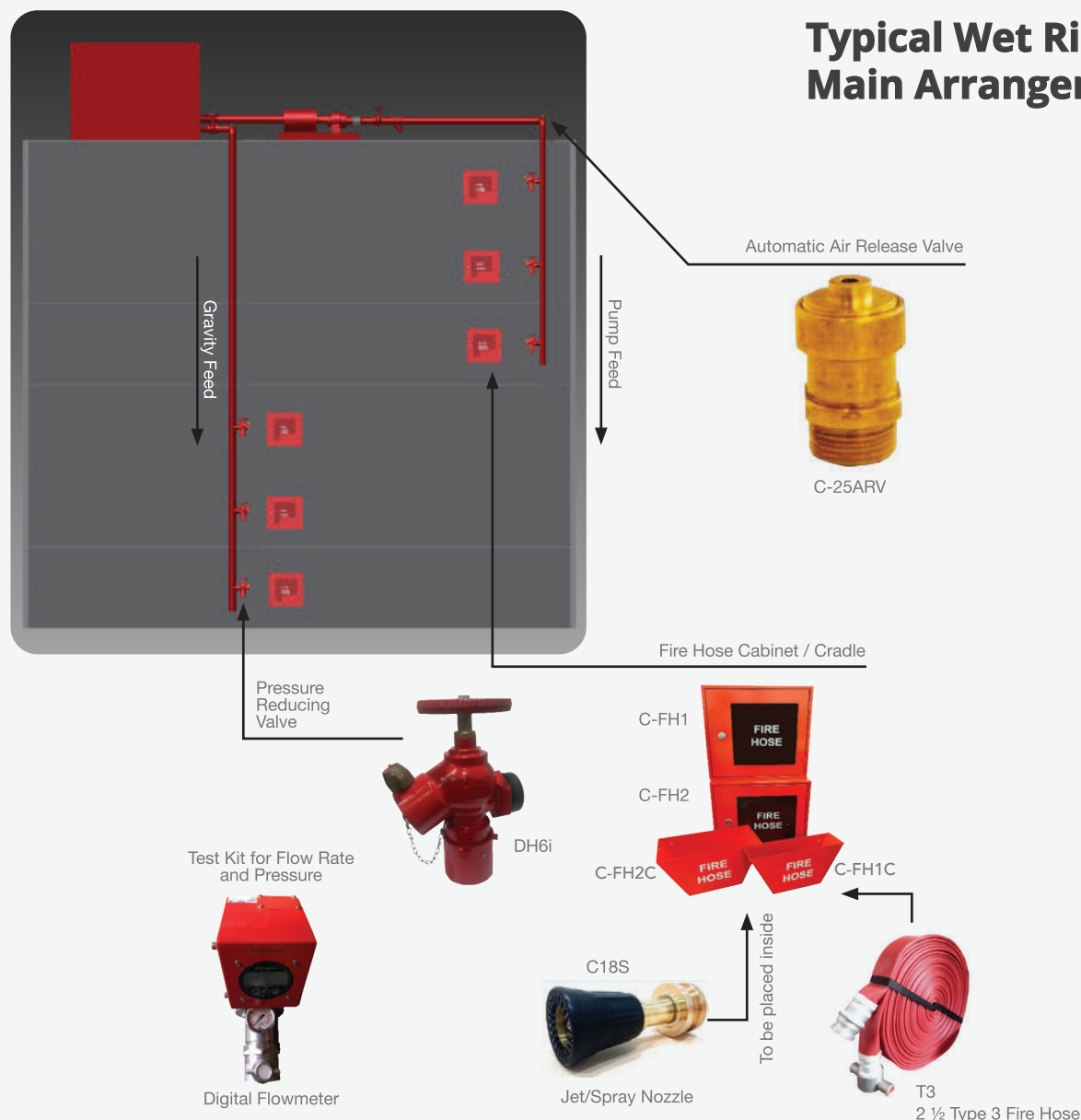
Wet risers are necessary for buildings over 60m high to provide water supply to all floors for fire fighting purposes.

A wet riser system is a pipe permanently charged with water from a pressurised supply, often pumped from a storage tank, with landing valves on each floor. The breeching inlets, which are fitted at ground level, are meant for replenishing the water tank. Electrical high and low water level alarms are fitted to the tanks to allow water levels to be monitored.

Pressure regulating valves are incorporated into landing valves to regulate the high pressure in the rising main to a minimum running pressure of 3.5 bar and a maximum of 5.5 bar at each landing valve. The static pressure in any line of hose connected to a landing valve shall not exceed 7 bar. The wet rising system shall maintain a minimum water supply flow rate of 27 l/s (Residential) and 38 l/s (Commercial) when 3 landing valves in the system are in the fully open position.

COMBAT® Wet Riser Systems are designed to provide reliable fire protection for commercial and industrial buildings. Our products are made with high quality components and are designed, manufactured, installed and tested in accordance with SS 575: 2012.

## Typical Wet Riser Main Arrangement







## 2-Way Breeching Inlet



MODEL	DR-095
BRAND	COMBAT ®
BODY MATERIAL	Ductile Iron
INLET	Gunmetal Instantaneous Male to BS 336 c/w Non Return Valve
OUTLET	100mm PN 16
DRAIN VALVE	25mm Gate Valve
DESIGN PRESSURE	15 bar
FINISHING	Red Colour for Wet Rising Main
DESIGN	Accordance to BS 5041-3



## 4-Way Breeching Inlet



MODEL	WR-115
BRAND	COMBAT ®
BODY MATERIAL	Ductile Iron
INLET	Gunmetal Instantaneous Male to BS 336 c/w Non Return Valve
OUTLET	150mm PN 16
DRAIN VALVE	25mm Gate Valve
DESIGN PRESSURE	15 bar
FINISHING	Red Colour for Wet Rising Main
DESIGN	Accordance to BS 5041-3



## Type 3 Layflat Fire Hose



MODEL	T3
BRAND	COMBAT ®
MATERIAL	Synthetic Rubber
SIZE AVAILABLE	2 1/2"
DESIGN PRESSURE	15 bar
DESIGN	Accordance to BS 6391
CONNECTION	BS336 Instantaneous Connection



## Oblique Landing Valve



MODEL	LV-DR25
BRAND	COMBAT ®
BODY MATERIAL	Gunmetal BS 1400 LG2
DESIGN PRESSURE	15 bar
FLOW RATE	9 Ltr/sec @ Intlet 4.7 bar
FINISHING	Yellow Colour for Dry Rising Main
DESIGN	According to BS 5041-1



## Pressure Reducing Valve



MODEL	DH6i
BRAND	COMBAT ®
BODY MATERIAL	Gunmetal BS 1400 LG2
OUTLET CONNECTION	2 1/2" BS 336 Instantaneous Female Coupling
INLET CONNECTION	2 1/2" BSPT(M) Thread
DESIGN PRESSURE	20 bar
INLET PRESSURE	5 to 20 bar
OUTLET PRESSURE	2 bar to 7 bar
DESIGN	Accordance to BS 5041-1



## Automatic Air Release Valve

MODEL	C-25ARV
BRAND	COMBAT ®
MATERIAL	Brass
SIZE AVAILABLE	1"
DESIGN PRESSURE	16 bar
CONNECTION	BSP Male Thread



## Jet/Spray Nozzle

MODEL	C18P
BRAND	COMBAT ®
MATERIAL	Brass
DESIGN PRESSURE	20 bar
FLOW RATE (JET)	395 Ltr/min @ 6 bar
CONNECTION	2 1/2" BS336 Male Instantaneous



## Jet/Spray Nozzle

MODEL	C18S
BRAND	COMBAT ®
MATERIAL	Brass
DESIGN PRESSURE	20 bar
FLOW RATE (JET)	390 Ltr/min @ 6 bar
CONNECTION	2 1/2" BS336 Male Instantaneous



## Jet/Spray Nozzle

MODEL	C18
BRAND	COMBAT ®
MATERIAL	Brass
DESIGN PRESSURE	20 bar
FLOW RATE (JET)	370 Ltr/min @ 6 bar
CONNECTION	2 1/2" BS336 Male Instantaneous



<b>Dry Riser Breeching Inlet Cabinet</b>	
BRAND	COMBAT ®
BODY MATERIAL	Electro Galvanised Steel or Stainless Steel
SIZE	595 (W) x 395 (H) x 295mm (D)
SIZE (FRAME & DOOR)	595 (W) x 395 (H) x 100 (D) x 38mm (Frame)
LOCK TYPE	Spring Lock
FINISHING	Red Polyester Powder Coated or Hairline
DESIGN	Accordance to BS 5041-5

<b>Wet Riser Breeching Inlet Cabinet</b>	
BRAND	COMBAT ®
BODY MATERIAL	Electro Galvanised Steel or Stainless Steel
SIZE	595 (W) x 595 (H) x 295 mm (D)
SIZE (FRAME & DOOR)	595 (W) x 595 (H) x 100 (D) x 38mm (Frame)
LOCK TYPE	Spring Lock
FINISHING	Red Polyester Powder Coated or Hairline
DESIGN	Accordance to BS 5041-5



<b>Single or Double Fire Hose Cradle</b>	
MODEL	C-FH1C / C-FH2C
BRAND	COMBAT ®
BODY MATERIAL	Electro Galvanised Steel
SIZE	560 (W) x 280 (H) x 150mm (D) or 280mm (D)
LOCK TYPE	N.A.
FINISHING	Red Polyester Powder Coated

<b>Single or Double Fire Hose Cabinet</b>	
MODEL	C-FH1 / C-FH2
BRAND	COMBAT ®
BODY MATERIAL	Electro Galvanised Steel or Stainless Steel
SIZE	690 (W) x 640 (H) x 250mm (D) or 350mm (D)
LOCK TYPE	Spring Lock
FINISHING	Red Polyester Powder Coated or Hairline
DESIGN	Accordance to Fire Code 2018

**2 1/2" Bib Nose Diaphragm Valve**

<b>MODEL</b>	DV-BNF25	LPCB Cert No. 501
<b>BRAND</b>	COMBAT ®	
<b>MATERIAL</b>	Gunmetal LG2	
<b>DIAPHRAGM MATERIAL</b>	Nitrile with reinforcement	
<b>ACCESSORIES</b>	Plastic Blank Cap with SS Chain	
<b>INLET</b>	2 1/2" PN16 FF Flange	
<b>OUTLET</b>	Integrated 2 1/2" BS336 Instantaneous	
<b>DESIGN PRESSURE</b>	15 bar	
<b>FINISHING</b>	Bare	
<b>FLOW RATE</b>	590 Lpm @ Inlet 4.7 bar	
<b>DESIGN</b>	Accordance to BS 5041-1	

**2 1/2" Horizontal Diaphragm Valve**

<b>MODEL</b>	DV-HF25	LPCB Cert No. 501
<b>BRAND</b>	COMBAT ®	
<b>MATERIAL</b>	Gunmetal LG2	
<b>DIAPHRAGM MATERIAL</b>	Nitrile with reinforcement	
<b>ACCESSORIES</b>	Plastic Blank Cap with SS Chain	
<b>INLET</b>	2 1/2" PN16 FF Flange	
<b>OUTLET CONNECTION</b>	2 1/2" NPT(F) Thread	
<b>OUTLET INSTANTANEOUS</b>	2 1/2" BS336 Instantaneous	
<b>DESIGN PRESSURE</b>	15 bar	
<b>FINISHING</b>	Bare	
<b>FLOW RATE</b>	528 Lpm @ Inlet 4.7 bar	
<b>DESIGN</b>	Accordance to BS 5041-1	

**2 1/2" Right Angle Diaphragm Valve**

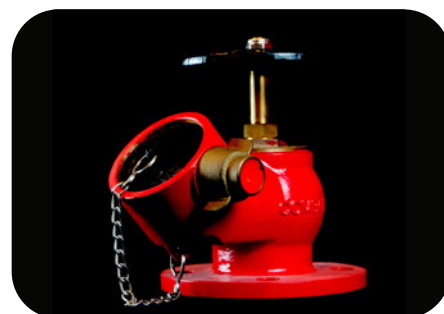
<b>MODEL</b>	DV-RAF25	LPCB Cert No. 501
<b>BRAND</b>	COMBAT ®	
<b>MATERIAL</b>	Gunmetal LG2	
<b>DIAPHRAGM MATERIAL</b>	Nitrile with reinforcement	
<b>ACCESSORIES</b>	Plastic Blank Cap with SS Chain	
<b>INLET</b>	2 1/2" PN16 FF Flange	
<b>OUTLET CONNECTION</b>	2 1/2" NPT(F) Thread	
<b>OUTLET INSTANTANEOUS</b>	2 1/2" BS336 Instantaneous	
<b>DESIGN PRESSURE</b>	15 bar	
<b>FINISHING</b>	Bare	
<b>FLOW RATE</b>	582 Lpm @ Inlet 4.7 bar	
<b>DESIGN</b>	Accordance to BS 5041-1	

**2 1/2" Bib Nose Landing Valve**

<b>MODEL</b>	LV-BNF25 / LV-BNS25	LPCB Cert No. 501
<b>BRAND</b>	COMBAT ®	
<b>BODY MATERIAL</b>	Gunmetal LG2	
<b>ACCESSORIES</b>	Plastic Blank Cap with SS Chain	
<b>INLET</b>	2 1/2" PN16 Flange / 2 1/2" BSP(M)	
<b>OUTLET</b>	2 1/2" BS336 Female Instantaneous	
<b>DESIGN PRESSURE</b>	15 bar	
<b>FINISHING</b>	Red	
<b>FLOW RATE</b>	8.7 Lps @ Inlet 4.7 bar	
<b>DESIGN</b>	Accordance to BS 5041-1	

**2 1/2" Horizontal Landing Valve**

<b>MODEL</b>	LV-HF25 / LV-HS25	LPCB Cert No. 501
<b>BRAND</b>	COMBAT ®	
<b>BODY MATERIAL</b>	Gunmetal LG2	
<b>ACCESSORIES</b>	Plastic Blank Cap with SS Chain	
<b>INLET</b>	2 1/2" PN16 Flange / 2 1/2" BSPT(M)	
<b>OUTLET</b>	2 1/2" BS336 Female Instantaneous	
<b>DESIGN PRESSURE</b>	15 bar	
<b>FINISHING</b>	Red	
<b>FLOW RATE</b>	8.8 Lps @ Inlet 4.7 bar	
<b>DESIGN</b>	Accordance to BS 5041-1	

**2 1/2" Oblique Landing Valve**

<b>MODEL</b>	LV-OF25 / LV-DR25	LPCB Cert No. 501
<b>BRAND</b>	COMBAT ®	
<b>BODY MATERIAL</b>	Gunmetal LG2	
<b>ACCESSORIES</b>	Plastic Blank Cap with SS Chain	
<b>INLET</b>	2 1/2" PN16 Flange / 2 1/2" BSPT(M)	
<b>OUTLET</b>	2 1/2" BS336 Female Instantaneous	
<b>DESIGN PRESSURE</b>	15 bar	
<b>FINISHING</b>	Red	
<b>FLOW RATE</b>	9 Lps @ Inlet 4.7 bar	
<b>DESIGN</b>	Accordance to BS 5041-1	

**2 1/2" Right Angle Landing Valve**

<b>MODEL</b>	LV-RAF25 / LV-RA25	LPCB Cert No. 501
<b>BRAND</b>	COMBAT ®	
<b>BODY MATERIAL</b>	Gunmetal LG2	
<b>ACCESSORIES</b>	Plastic Blank Cap with SS Chain	
<b>INLET</b>	2 1/2" PN16 Flange / 2 1/2" BSPT(M)	
<b>OUTLET</b>	2 1/2" BS336 Female Instantaneous	
<b>DESIGN PRESSURE</b>	15 bar	
<b>FINISHING</b>	Red	
<b>FLOW RATE</b>	8.8 Lps @ Inlet 4.7 bar	
<b>DESIGN</b>	Accordance to BS 5041-1	

**1" Pressure Regulating Valve**

<b>MODEL</b>	C-25PRV	
<b>BRAND</b>	COMBAT ®	
<b>BODY MATERIAL</b>	Nickel Chrome Plated Brass	
<b>INLET</b>	1" BSPT (F) Thread	
<b>OUTLET</b>	1" BSPT (F) Thread	
<b>DESIGN PRESSURE</b>	16 bar	
<b>STATIC PRESSURE</b>	3 to 8 bar	
<b>FLOW RATE</b>	100 Lpm @ 2 bar Drop	



# FIRE HOSE REEL SYSTEMS

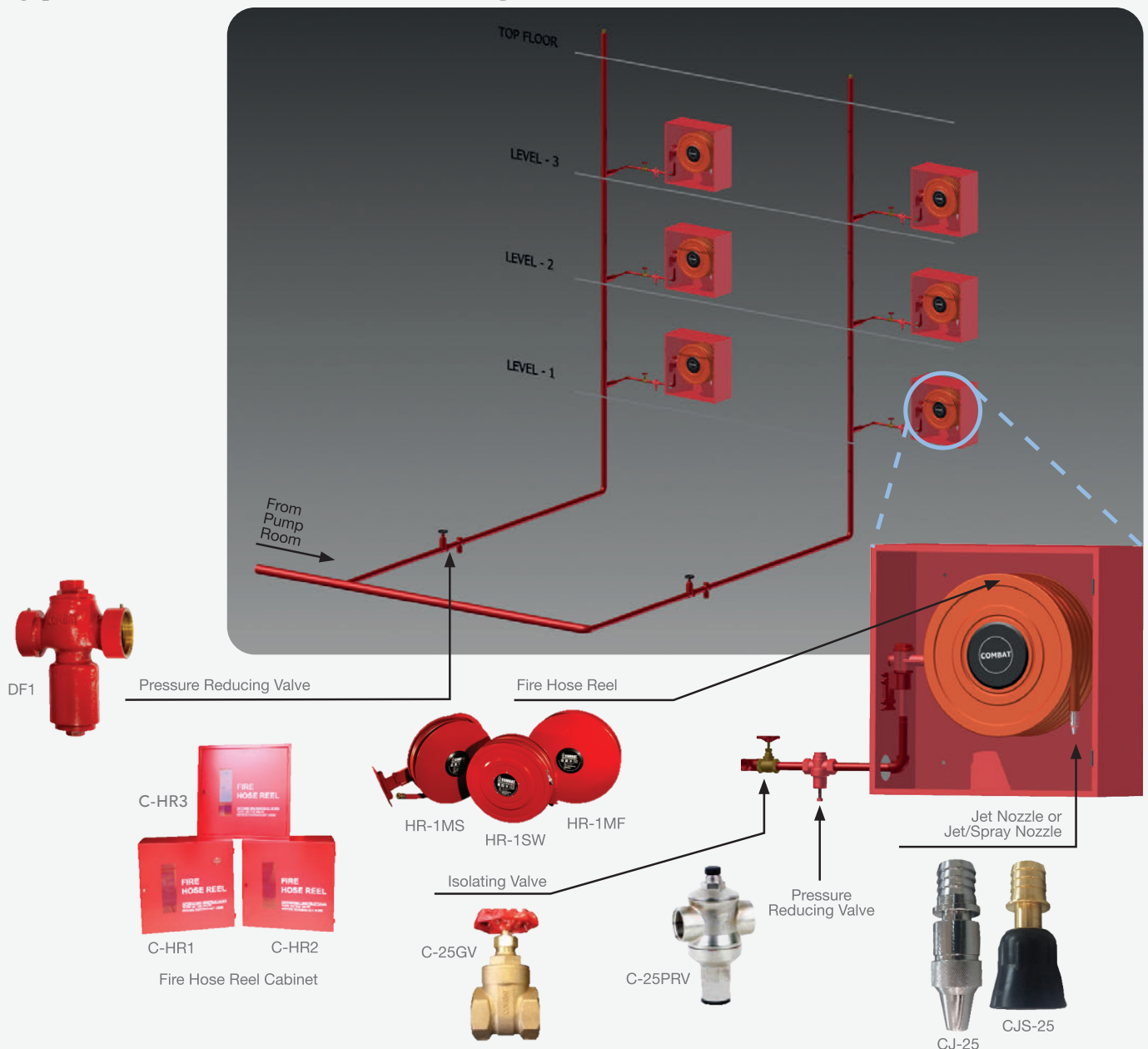
Fire Hose Reel Systems consist of pumps, pipes, water supply and hose reels that are strategically located inside a building to provide a readily accessible and controlled supply of water to combat fire.

The fire hose reels are housed within a glass-fronted cabinet. The system is manually operated and activated by opening a valve to enable water to flow from the fire pump or fire hydrant system into the hose. The system pressure loss will activate the pump to ensure adequate water flow and pressure to provide a water jet of at least 10m from the nozzle.

According to SS 575: 2012, the fire hose reel shall provide a jet of at least 10m in length at a minimum flow rate of at 0.4 l/s. When a 30m hose reel is in use with a 6mm nozzle, a minimum running pressure of 2 bar will be required at the entry to each reel. The maximum system pressure of the hose reel system shall be limited to 12 bar.

COMBAT® Fire Hose Reel Systems are in full compliance with EN 671 and adhere to high quality standards to provide uncompromising protection and peace of mind against fire.

## Typical Fire Hose Reel Arrangement





## COMBAT® Fire Hose Reels

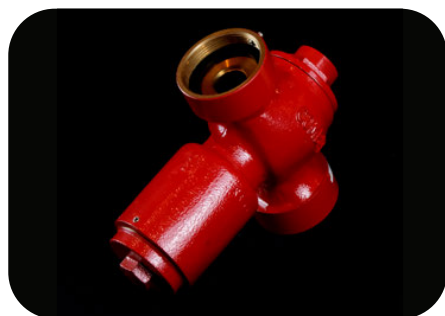
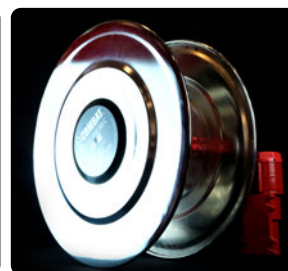
3 UNIQUE DESIGNS FOR DIFFERENT ENVIRONMENTS - COMPACT, SLIM OR SUPER SLIM DESIGN

2 OPERATIVE SELECTIONS - AUTOMATIC OR MANUAL

2 MOUNTING METHODS - FIXED OR SWING

DRUM MATERIALS: EG PLATE, STAINLESS STEEL PLATE - FOR CORROSIVE AREAS (EG: CLOSE TO THE SEA)

<b>BRAND</b>	COMBAT®
<b>MATERIAL</b>	Electro Galvanized Plate or Stainless-Steel Plate
<b>SIZE</b>	1" or 3/4"
<b>LENGTH</b>	30m
<b>FLOW RATE (JET NOZZLE)</b>	46 lpm @ 6 bar
<b>FLOW RATE (JET/SPRAY NOZZLE)</b>	63 lpm (Jet) / 76 lpm (Spray) @ 6 bar
<b>DESIGN PRESSURE</b>	12 bar
<b>DESIGN</b>	Accordance to EN 671-1



### 2" Pressure Reducing Valve

<b>MODEL</b>	DF1
<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Gunmetal BS1400 LG2
<b>OUTLET CONNECTION</b>	2" BSP(F) Thread
<b>INLET CONNECTION</b>	2" BSP(F) Thread
<b>DESIGN PRESSURE</b>	20 bar
<b>INLET PRESSURE</b>	5 to 20 bar
<b>FLOW RATE</b>	486 ltr/min @ 4 bar (differential pressure)



### 1" Pressure Reducing Valve

<b>MODEL</b>	C-25PRV
<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Nickel Chrome Plated Brass
<b>OUTLET CONNECTION</b>	1" BSPT (F) Thread
<b>INLET CONNECTION</b>	1" BSPT (F) Thread
<b>DESIGN PRESSURE</b>	16 bar
<b>STATIC PRESSURE</b>	3 bar to 8 bar
<b>FLOW RATE</b>	100lpm @ 2 bar Drop



### High Pressure Hose Reel



<b>BRAND</b>	COMBAT ®
<b>MATERIAL</b>	Electro Galvanized Plate or Stainless Steel Plate
<b>WATERWAY</b>	Gunmetal LG2 or Titanium
<b>SIZE</b>	Size: 1" or 1 1/4"
<b>LENGTH</b>	30m
<b>FLOW RATE</b>	162 lpm @ 6 bar (Jet) for 1" Hose Reel
<b>DESIGN PRESSURE</b>	20 bar
<b>APPLICATION</b>	Sea Water
<b>DESIGN</b>	Accordance to EN 671-1



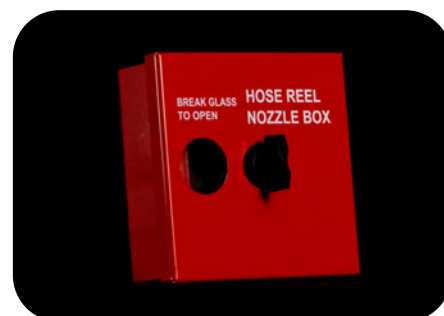
### Hose Reel Cabinet

<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Electro Galvanised Steel or Stainless Steel
<b>SIZE</b>	800 (W) x 800 (H) x 360mm (D)
<b>SIZE (FRAME &amp; DOOR)</b>	800 (W) x 800 (H) x 100 (D) x 30mm (Frame)
<b>LOCK TYPE</b>	Lock & Key, Cam Lock or Spring Lock
<b>FINISHING</b>	Red Polyester Powder Coated or Hairline



### 1" Isolating Valve

<b>MODEL</b>	C-25GV
<b>BRAND</b>	COMBAT ®
<b>MATERIAL</b>	Brass
<b>SIZE</b>	1"
<b>DESIGN PRESSURE</b>	16 bar



### Nozzle Cabinet

<b>MODEL</b>	C-JN2
<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Electro Galvanised Steel
<b>SIZE</b>	138 (H) x 138 (L) x 53mm (D)
<b>LOCK TYPE</b>	Lock & Key
<b>FINISHING</b>	Red Polyester Powder Coated

# FIRE SPRINKLER SYSTEMS

COMBAT® Fire Sprinkler Systems are recognised to be highly effective in fire suppression and are widely used in commercial and industrial buildings. The system consists of fire sprinklers which are connected to a water distribution piping system and are mounted on ceilings or walls.

There are two types of sprinkler systems: wet and dry. Wet sprinkler systems are always filled with pressurised water.

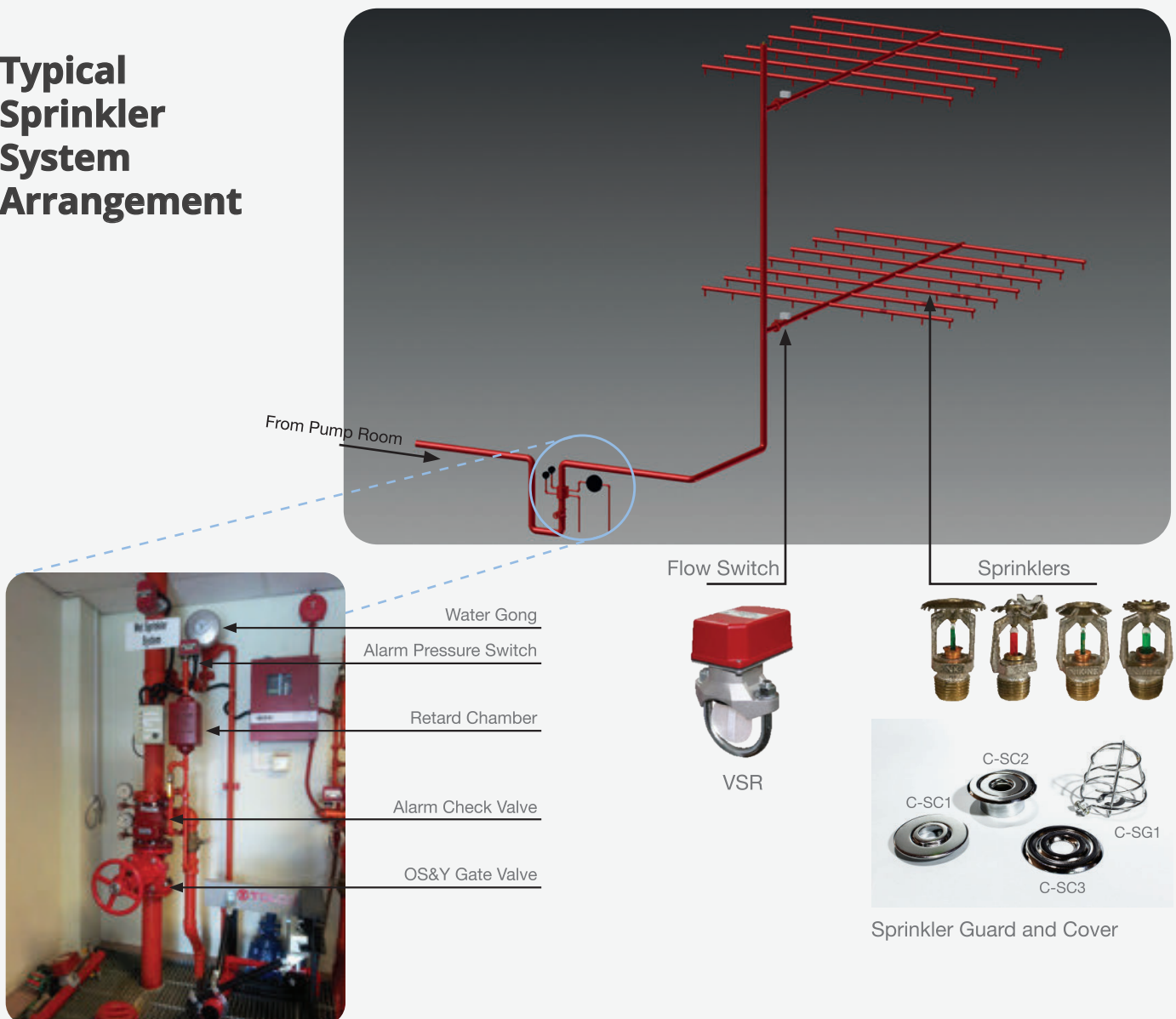
Though wet systems are the most common, they are only suitable for use in environments that are not subject to freezing. Dry sprinkler systems are designed to protect unheated areas where freezing temperatures may be expected. The piping in dry systems is filled with compressed air or nitrogen instead of water.

Each sprinkler in the fire sprinkler system is fitted with a glass bulb containing gases and liquids that expand under heat.

In the event of a fire, hot air rises to the ceiling and the bulb breaks as a result of the thermal expansion of the liquids and gases in the bulb. When the fire sprinkler is activated, the alarm valve will open to allow water flow into the system to extinguish the fire.

Our Fire Sprinkler Systems undergo stringent manufacturing and quality control processes and tests to ensure full compliance with CP52.

## Typical Sprinkler System Arrangement







### Water Gong



BRAND	TYCO
HOUSING MATERIAL	Cast Iron
INLET CONNECTION	3/4" NPT(F) Thread
OUTLET CONNECTION	1" NPT(F) Thread
WORKING PRESSURE	20.7 bar



### Alarm Check Valve



BRAND	TYCO
BODY MATERIAL	Ductile Iron
INLET/OUTLET CONNECTION	Flanged/Flanged or Flanged/Grooved or Grooved/Grooved
DRAIN CONNECTION	NPT(F) Thread
WORKING PRESSURE	20.7 bar



### OS&Y Gate Valve



BRAND	TYCO
MATERIAL	Ductile Iron
SIZE AVAILABLE	2", 2 1/2", 3", 4", 6", 8", 10" & 12"
WORKING PRESSURE	20.87 bar
CONNECTION	Flange/Flange, Flange/Groove, Grove/Groove



### Flow Switch



MODEL	TF
BRAND	TYCO
SERVICE PRESSURE	31 bar
FLOW SENSITIVITY	15-37 ltr/min
MAXIMUM SURGE	5.5 m/s
CONTACT RATINGS	8 Amp at 125/250 VAL 3 Amp at 24 VDL 2.5 Amp at 30 VDL
CONDUIT ENTRANCES	Two knockouts provided for 1/2" conduit. Individual switch compartments suitable for dissimilar voltages.



### Supervisory Switch



MODEL	TOSY
BRAND	TYCO
FINISHING	Cover: Die-cast Finish, Powder Coat Base: Die-cast Finish
CONTACT RATING	TOSY-1: One set of SPDT Contacts TOSY-2: Two sets of SPDT Contacts 10.00 Amps at 125/250 VAC 2.50 Amps at 30 VDC resistive
TEMP. RANGE	-40°C to 62°C



### Sprinkler

BRAND	TYCO
BODY	Brass
TYPE	Pendant, Sidewall, Upright, Conceal, Dry Pendant, ESFR
RESPONSE	Standard or Quick Response
RESPONSE TEMP.	57°C, 68°C, 79°C, 93°C, 141°C, 182°C



### Sprinkler Cover and Sprinkler Guard

TYPE	Single	Screw On	Push On	Sprinkler Guard
BRAND	COMBAT ®			
SIZE	Ø75.50	Ø70.00	Ø74.20	Ø70.00
ID SIZE	N.A.	Ø34.75	Ø47.70	N.A.
OF SIZE OF INNER PIECE	N.A.	Ø35.40	Ø47.80	N.A.
ID SIZE OF INNER PIECE	N.A.	Ø22.30	Ø20.00	N.A.
HEIGHT (MM)	4.7	N.A.	27.4	80
MATERIAL	Nickel Chrome Plate Mild Steel Optional: White Finishing for Screw On type only			

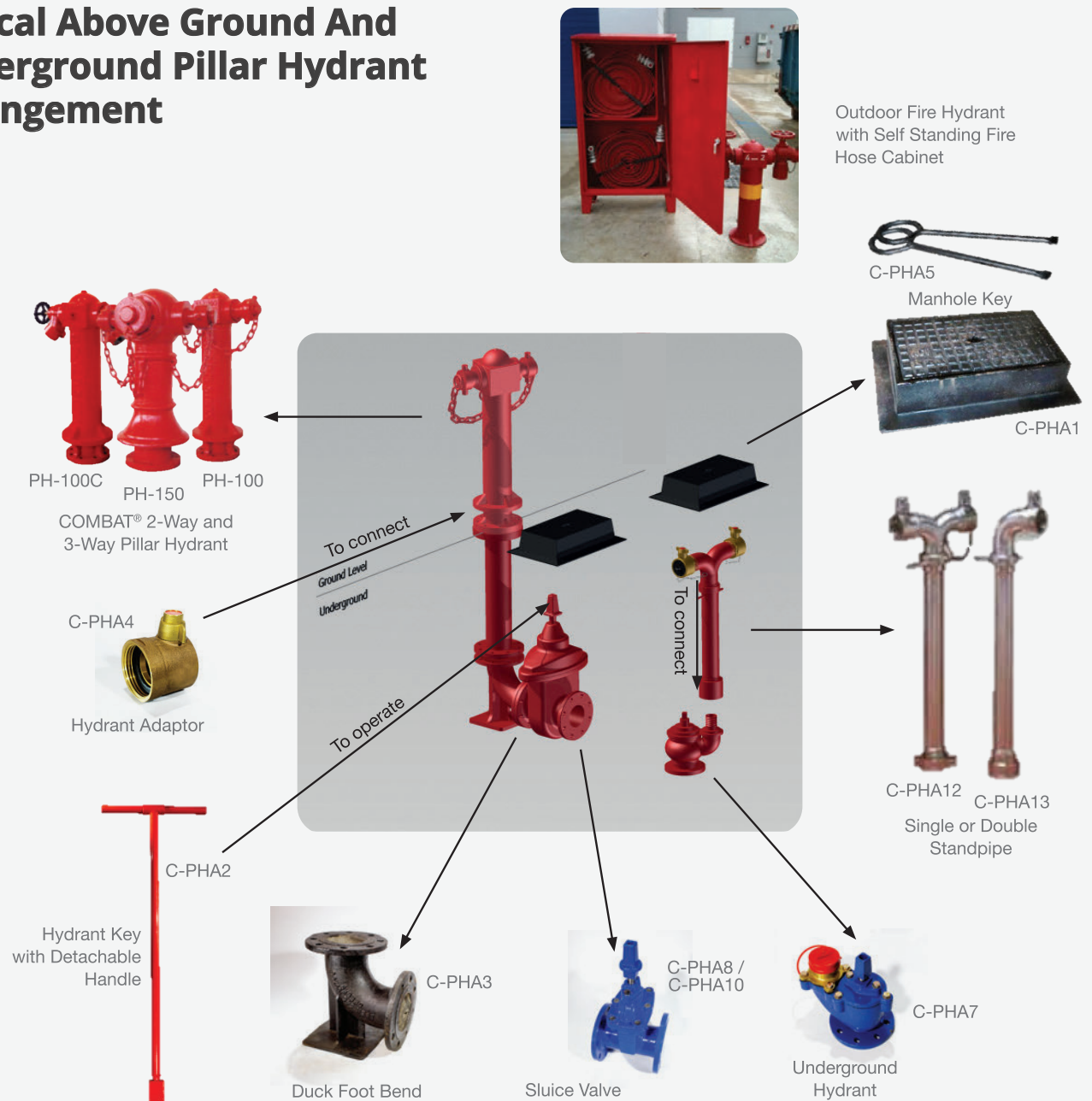
# FIRE HYDRANT SYSTEMS

We manufacture, install and maintain fire hydrant systems for all commercial and industrial applications. COMBAT® Fire Hydrant Systems are designed and manufactured to high standards and are in compliance with the latest Singapore standards (SS 575) and the relevant international standards.

Fire hydrant systems are an integral part of fire protection. They provide the means for water to be drawn from water mains through a system of underground and above ground pipes to enable the Fire Service to tap into this water supply to control and extinguish a fire in or around a building.

Fire hydrants are usually located along the fire engine access road such that every part of the access road is within an unobstructed distance of 50m from any hydrant. The minimum flow rate of water supply for fire hydrants shall be 27 l/s (Residential) or 38 l/s (Commercial) and the minimum running pressure is 2 bar.

## Typical Above Ground And Underground Pillar Hydrant Arrangement



**Duck Foot Bend**

<b>MODEL</b>	C-PHA3
<b>BRAND</b>	COMBAT ®
<b>INLET</b>	4" PN16 Flange Optional: 6" PN16 Flange
<b>OUTLET</b>	4" PN16 Flange
<b>BODY MATERIAL</b>	Ductile Iron
<b>SIZE</b>	300mm (L) x 305mm (H)

**Manhole Key**

<b>MODEL</b>	C-PHA5
<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Cast Iron
<b>SIZE</b>	335mm (L)

**Hydrant Adaptor**

<b>MODEL</b>	C-PHA4
<b>BRAND</b>	COMBAT ®
<b>INLET</b>	2 1/2" LVT Thread
<b>OUTLET</b>	2 1/2 BS 336 Instantaneous Coupling
<b>BODY MATERIAL</b>	Brass
<b>SIZE</b>	229mm (L) x 350mm (H)

**Hydrant Cover**

<b>MODEL</b>	C-PHA1
<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Ductile Iron
<b>SIZE</b>	465 mm (L) x 300 mm (D) x 100 mm (H)

**Hydrant Key And Bar**

<b>MODEL</b>	C-PHA2
<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Mild Steel
<b>SIZE</b>	1000mm (L) x 510mm (W)

**Underground Hydrant**

<b>MODEL</b>	C-PHA7
<b>BRAND</b>	COMBAT ®
<b>INLET</b>	3" PN16 Flange
<b>OUTLET</b>	3" V thread
<b>BODY MATERIAL</b>	Ductile Iron
<b>SIZE</b>	345mm (L) x 340mm (W)

**Single and Double Standpipe**

<b>MODEL</b>	C-PHA12 & C-PHA13
<b>BRAND</b>	COMBAT ®
<b>BODY MATERIAL</b>	Aluminium Alloy
<b>INLET CONNECTION</b>	2 1/2" V Thread
<b>OUTLET CONNECTION</b>	2 1/2" BS336 Female Instantaneous

**Sluice Valve**

<b>MODEL</b>	C-PHA8 / C-PHA10
<b>BRAND</b>	COMBAT ®
<b>MATERIAL</b>	Ductile Iron
<b>TYPE</b>	Non-Rising Stem Handwheeled Key Operated
<b>BODY TEST PRESSURE</b>	16 bar



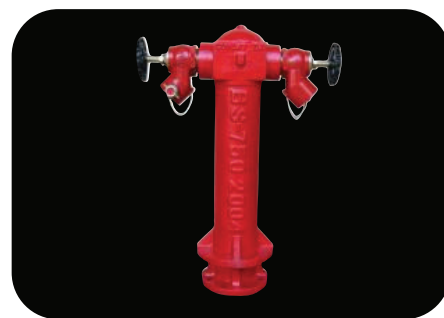
**3-Way Non-Controllable Pillar Hydrant**

MODEL	PH-150
BRAND	COMBAT ®
DESIGN PRESSURE	16 bar
BODY MATERIAL	Cast Iron / Ductile Iron
INLET CONNECTION	150mm PN16
OUTLET CONNECTION	2 x 2 ½" LVT Thread and 4" Pumper Connection



**2-Way Non-Controllable Pillar Hydrant**

MODEL	PH-100
BRAND	COMBAT ®
DESIGN PRESSURE	16 bar
BODY MATERIAL	Cast Iron / Ductile Iron
INLET CONNECTION	100mm PN16
OUTLET CONNECTION	2 ½" LVT Thread



**2-Way Controllable Pillar Hydrant**

MODEL	PH-100C
BRAND	COMBAT ®
DESIGN PRESSURE	16 bar
BODY MATERIAL	Cast Iron / Ductile Iron
INLET CONNECTION	100mm PN16
OUTLET CONNECTION	2 ½" BS 336 Female Instantaneous



**Single or Double Fire Hose Cabinet**

MODEL	C-FH1 / C-FH2
BRAND	COMBAT ®
BODY MATERIAL	Electro Galvanised Steel or Stainless Steel
SIZE	690 (W) x 640 (H) x 250mm (D) or 350mm (D)
LOCK TYPE	Spring Lock
FINISHING	Red Polyester Powder Coated Or Hairline Finishing
DESIGN	Accordance to Fire Code 2018



**Single or Double Fire Hose Cradle**

MODEL	C-FH1C/C-FH2C
BRAND	COMBAT ®
BODY MATERIAL	Electro Galvanised Steel
SIZE	560 (W) x 280 (H) x 150mm (D) or 280mm (D)
LOCK TYPE	N.A.
FINISHING	Red Polyester Powder Coated



**Self-Standing Fire Hose Cabinet**

MODEL	C-FH2S/C-FH4S
BRAND	COMBAT ®
BODY MATERIAL	Electro Galvanised Steel
SIZE	740 (W) x 1370 (H) x 280mm (D) or 380mm (D)
LOCK TYPE	Lever Lock
FINISHING	Red Polyester Powder Coated



**4 Way Pillar Hydrant with Pumper Connection**

BRAND	COMBAT®
INLET	6" ANSI #150FF
PUMPER INLET	5" Storz Coupling & C/W 4" OS&Y Gate Valve
OUTLET	2 ½" BS 336 Instantaneous Female
DESIGN PRESSURE	16 bar
BODY MATERIAL	Carbon Steel (Sch 40)
FLOW RATE BASE ON 1 OUTLET	1000 ltr/min
FINISHING	Red Color



**2 Way Controllable Pillar Hydrant**

BRAND	Combat®
INLET	4" ANSI #150RF
OUTLET	2 ½" BS 336 Instantaneous Female Design
PRESSURE	16 bar
BODY MATERIAL	Carbon Steel (Sch 40)
FLOW RATE BASE ON 1 OUTLET	1000 ltr/min
FINISHING	Red Colour



# PORTABLE FIRE EXTINGUISHERS

Portable Fire Extinguishers are to be used to combat fire in its initial stages.

We offer a wide range of fire extinguishers to suit all types and classes of fire. COMBAT® Fire Extinguishers are made to rigorous standards of quality. They conform to the requirements of BS EN 3 and have achieved LPCB, SETSCO, MED (Wheel Mark) and ISO 9001 certifications. All COMBAT® Fire Extinguishers are suitable for outdoor use - UV resistant.

According to SS 578: 2012, the selection of suitable fire extinguishers depends on the fire hazards expected, occupancy of a building and the effectiveness of the fire extinguisher against that class of the hazard. Fire extinguishers shall be located in a conspicuous and readily accessible position and the travel distance to any fire extinguisher shall be 15m or less.



# PORTABLE FIRE EXTINGUISHERS



## Dry Powder Portable Fire Extinguisher

BS EN 3-7 & SS EN 3-7

EFFECTIVE ON CLASS A, B, C & E FIRES

DOES NOT CONDUCT ELECTRICITY

FAST KNOCK OUT EFFECT

ENVIRONMENTALLY FRIENDLY FIRE EXTINGUISHER FOR ABC POWDER TYPE

WIDELY USED IN RESIDENTIAL & COMMERCIAL BUILDINGS, INDUSTRIAL PLANTS AND WORKSHOPS, ETC...

AVAILABLE IN CARTRIDGE TYPE

MODEL	C-1ASE	C-2ASE	C-3ASE	C-4ASE	C-6ASE	C-9ASE	C-9MSE	C-9PKSE	C-6ACE	C-9ACE	C-12ACE	C-11MCE	C-12PKCE
CAPACITY	1kg	2kg	3kg	4kg	6kg	9kg	9kg	9kg	6kg	9kg	12kg	11kg	12kg
EXTINGUISHING MEDIUM	ABC 40% Dry Chemical Powder						Monnex	Purple K	ABC 40% Dry Chemical Powder			Monnex	Purple K
PROPELLANT GAS	Nitrogen								110g CO <sub>2</sub>	150g CO <sub>2</sub>	225g CO <sub>2</sub>	225g CO <sub>2</sub>	225g CO <sub>2</sub>
FIRE RATING	5A/55B	13A/34B	13A/55B	21A/144B	34A/233B	43A/233B	233B	233B	27A/233B	43A/233B	55A/233B	233B	233B
WORKING PRESSURE	14 bar	14 bar	14 bar	14 bar	14 bar	14 bar	14 bar	14 bar	10.3 bar	14.6 bar	19.7 bar	14 bar	14 bar
WORKING TEMPERATURE	-20°C to 60°C												
HOSE LENGTH	N.A	N.A	N.A	440mm	440mm	530mm	530mm	530mm	440mm	530mm	620mm	620mm	530mm
APPROVAL	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 	LPCB 

note: Singapore market does not allow C marking.



## Water Mist Portable Fire Extinguisher

BS EN 3-7 & SS EN 3-7



ECO-FRIENDLY

DURABLE DISCHARGE NOZZLE

RESISTANCE TO CORROSION ACCORDING TO EN 3-7

EFFECTIVE SUPPRESSION OF CLASS A, B & F FIRES



MODEL	C-3WMFA	C-6WMFA
CAPACITY	3 Ltr	6 Ltr
EXTINGUISHING MEDIUM	Water with additive	Water with additive
PROPELLANT GAS	Nitrogen	Nitrogen
FIRE RATING	13A/55B/40F	21A/144B/75F
WORKING PRESSURE	15 bar	15 bar
WORKING TEMPERATURE	5°C to 60°C	5°C to 60°C
HOSE LENGTH	355mm	490mm
APPROVAL		



## MRI Room Portable Fire Extinguisher

SUITABLE FOR MRI ROOM


BS EN 3-7 & SS EN 3-7

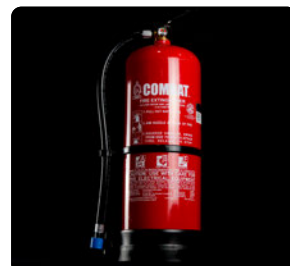
ECO-FRIENDLY

DURABLE DISCHARGE NOZZLE

RESISTANCE TO CORROSION ACCORDING TO EN 3-7

EFFECTIVE SUPPRESSION OF CLASS A, B & F FIRES

MODEL	EX-WM6
CAPACITY	6 Ltr
EXTINGUISHING MEDIUM	Water
PROPELLANT GAS	Nitrogen
FIRE RATING	13A/21B/40F
WORKING PRESSURE	15 bar
WORKING TEMPERATURE	5°C to 60°C
HOSE LENGTH	540mm
APPROVAL	





## Foam Portable Fire Extinguisher

MODEL	C-6FSE	C-9FSE	C-9FCE
CAPACITY	6 Ltr	9 Ltr	9 Ltr
EXTINGUISHING MEDIUM	AFFF Foam	AFFF Foam	AFFF Foam
PROPELLANT GAS	Nitrogen	Nitrogen	75g CO <sub>2</sub>
FIRE RATING	8A/113B	34A/233B	34A/233B
WORKING PRESSURE	14 bar	14 bar	17 bar
WORKING TEMPERATURE	5°C to 60°C	5°C to 60°C	5°C to 60°C
HOSE LENGTH	295mm	530mm	530mm
APPROVAL	LPCB CERT No. 501	LPCB CERT No. 501	LPCB CERT No. 501

BS EN 3-7 & SS EN 3-7

EFFECTIVE ON CLASS A AND B FIRES

ENVIRONMENTALLY FRIENDLY FIRE EXTINGUISHER

TO REPLACE ABC FIRE EXTINGUISHER FOR GENERAL USAGE (NO RESIDUAL MESS)

NOT APPLICABLE FOR FIRE INVOLVING ELECTRICAL EQUIPMENT

WIDELY USED IN SHOPPING MALLS, SCHOOLS, OFFICES, INDUSTRIAL FACTORIES, STORAGE AREAS, PAINTSHOP AND PETROL STATION

AVAILABLE IN CARTRIDGE TYPE

## Water Portable Fire Extinguisher

MODEL	C-6WSE	C-9WSE	C-9WSEA	C-9WCEA
CAPACITY	6 Ltr	9 Ltr	9 Ltr	9 Ltr
EXTINGUISHING MEDIUM	Water	Water	Water Additives	Water Additives
PROPELLANT GAS	Nitrogen	Nitrogen	Nitrogen	55g CO <sub>2</sub>
FIRE RATING	8A	13A	21A	21A
WORKING PRESSURE	14 bar	14 bar	14 bar	16.5 bar
WORKING TEMPERATURE	5°C to 60°C	5°C to 60°C	5°C to 60°C	5°C to 60°C
HOSE LENGTH	450mm	540mm	540mm	540mm
APPROVAL	LPCB CERT No. 501	LPCB CERT No. 501	LPCB CERT No. 501	LPCB CERT No. 501



BS EN 3-7 & SS EN 3-7

NOT APPLICABLE FOR FIRE INVOLVING ELECTRICAL EQUIPMENT

WIDELY USED IN RETAIL SHOPS, PRINTING FIRMS AND WOOD INDUSTRIES

EFFECTIVE ON CLASS A FIRES

AVAILABLE IN CARTRIDGE TYPE

## Carbon Dioxide Portable Fire Extinguisher

MODEL	C-2CSEC	C-5CSEC
CAPACITY	2kg	5kg
EXTINGUISHING MEDIUM	CO <sub>2</sub>	CO <sub>2</sub>
PROPELLANT GAS	CO <sub>2</sub>	CO <sub>2</sub>
FIRE RATING	34B	55B
WORKING PRESSURE	60 bar	60 bar
WORKING TEMPERATURE	-20°C to 60°C	-20°C to 60°C
HOSE LENGTH	440mm	440mm
APPROVAL	LPCB CERT No. 501	LPCB CERT No. 501



BS EN 3-7 & SS EN 3-7

HEAVY DUTY HOSE & HIGH-PRESSURE HARDWARE

SUITABLE FOR USE ON LIVE ELECTRICAL EQUIPMENT

EFFECTIVE SUPPRESSION OF CLASS B FIRES

## Halotron BrX High Performance Clean Agent Fire Extinguisher

MODEL	C-2HBSE	C-4HBSE
CAPACITY	2kg	4kg
EXTINGUISHING MEDIUM	Halotron BrX	Halotron BrX
PROPELLANT GAS	Nitrogen	Nitrogen
FIRE RATING	5A/34B	13A/70B
WORKING PRESSURE	7 bar	7 bar
WORKING TEMPERATURE	-20°C to 60°C	-20°C to 60°C
HOSE LENGTH	440mm	440mm
APPROVAL	LPCB CERT No. 501	LPCB CERT No. 501

BS EN3 & SS EN3

THE ONLY CLEAN AGENT NOT SUBJECT TO ODP AND GWP REGULATIONS.

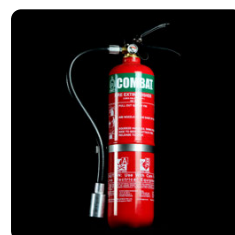
BECAUSE ATMOSPHERIC LIFETIME IS VERY SHORT - 7 DAYS ,

USED IN CLEAN ENVIRONMENT EG. OFFICE , SERVER ROOM , M&E ROOM , HOTEL.

NOTE: UNDER SS 578 , CLEAN ROOM CLASSIFIED AS MEDIUM HAZARD WITH MINIMUM 70B FIRE RATING , 4KG BRX MEET THE ABOVE REQUIREMENTS.

## Halotron™ Portable Fire Extinguisher

MODEL	C-2HSE	C-4HSE	C-6HSE
CAPACITY	2kg	4kg	6kg
EXTINGUISHING MEDIUM	Halotron I	Halotron I	Halotron I
PROPELLANT GAS	Argon	Argon	Argon
FIRE RATING	5A/34B	8A/55B	13A/70B
WORKING PRESSURE	7 bar	9 bar	9 bar
WORKING TEMPERATURE	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
HOSE LENGTH	440mm	440mm	440mm
APPROVAL	LPCB CERT No. 501	LPCB CERT No. 501	LPCB CERT No. 501



SS EN 3-7

ECO-FRIENDLY REPLACEMENT FOR HALON 1211

CLEAN GAS WITH NO RESIDUE AND SAFE FOR THE ENVIRONMENT

HIGH PERFORMANCE AND LIGHTWEIGHT

EFFECTIVE ON CLASS A AND B FIRES

WIDELY USED IN OFFICES, M&E ROOMS AND SERVER ROOMS

# ACCESSORIES FOR PORTABLE FIRE EXTINGUISHERS

FIRE EXTINGUISHER MODEL	C-1ASE	C-2ASE	C-3ASE	C-4ASE	C-6ASE	C-9ASE	C-12ASE	C-9MSE	C-9PKSE	C-2CSEC	C-5CSEC
Non-Weatherproof Cabinet											
Cabinet EG (Lock & Key)	C-S1M			C-M1M	C-L1M					C-M1M	C-L51M
Cabinet EG (Cam Lock)	C-S2M			C-M2M	C-L2M					C-M2M	C-L52M
Cabinet SS (Lock & Key)	C-S1S			C-M1S	C-L1S					C-M1S	C-L51S
Cabinet SS (Cam & Lock)	C-S2S			C-M2S	C-L2S					C-M2S	C-L52S
Weatherproof Cabinet											
Cabinet EG (Lock & Key)	C-S1MW			C-M1MW	C-L1MW					C-M1MW	C-51MW
Cabinet EG (Cam Lock)	C-S2MW			C-M2MW	C-L2MW					C-M2MW	C-52MW
Cabinet SS (Lock & Key)	C-S1SW			C-M1SW	C-L1SW					C-M1SW	C-51SW
Cabinet SS (Cam & Lock)	C-S2SW			C-M2SW	C-L2SW					C-M2SW	C-52SW
Hook Bracket Model	HB-28		HB-36	HB-54	HB-74					HB-28	HB-54C
Vehicle Bracket	C-VB1	C-VB2 /C-VB3	C-VB4	C-VB5	C-VB7	C-VB8				C-VB9	C-VB10
FIRE EXTINGUISHER MODEL	C-6FSE	C-9FSE	C-6WSE	C-9WSE	C-9KSE	C-2HSE	C-4HSE	C-6HSE			
Non-Weatherproof Cabinet											
Cabinet EG (Lock & Key)	C-L1M					C-S1M	C-M1M	C-L1M			
Cabinet EG (Cam Lock)	C-L2M					C-S2M	C-M2M	C-L2M			
Cabinet SS (Lock & Key)	C-L1S					C-S1S	C-M1S	C-L1S			
Cabinet SS (Cam & Lock)	C-L2S					C-S2S	C-M2S	C-L2S			
Weatherproof Cabinet											
Cabinet EG (Lock & Key)	C-L1MW					C-S1MW	C-M1MW	C-L1MW			
Cabinet EG (Cam Lock)	C-L2MW					C-S2MW	C-M2MW	C-L2MW			
Cabinet SS (Lock & Key)	C-L1SW					C-S1SW	C-M1SW	C-L1SW			
Cabinet SS (Cam & Lock)	C-L2SW					C-S2SW	C-M2SW	C-L2SW			
Hook Bracket Model	HB-74					HB-28	HB-54	HB-74			
Vehicle Bracket	C-VB7	C-VB8	C-VB7	C-VB8	C-VB7	C-VB2 /C-VB3	C-VB6	C-VB7			






















A large red mobile fire extinguisher is shown on a red metal frame with two large black wheels. A thick black hose is coiled around the frame. The extinguisher tank is red with a blue label that reads "COMBAT 58KG PURPLE K POWDER". The label also includes safety instructions in English and Indonesian. The background shows a window with bright light.


## MOBILE FIRE EXTINGUISHERS

COMBAT® Mobile Fire Extinguishers are manufactured and tested to high standards. They demonstrate compliance with BS EN 1866 and are approved by LPCB.




Mobile Fire Extinguishers are designed to protect high-risk areas — onshore and offshore facilities, manufacturing plants and warehouses etc., where the potential for large fire exist. These heavy duty wheeled units are bigger and have greater extinguishing capacities than portable fire extinguishers, but are highly mobile and can be easily maneuvered and fully operated by one person.

## Cartridge Type Mobile Fire Extinguisher

ABC 70% Dry Chemical Powder						AFFF Foam		
EXTINGUISHER MODEL	C-25ATC	C-50ATC	C-75ATC	C-100ATC	C-150ATC	C-50FTC	C-100FTC	C-135FTC
CAPACITY	25kg	50kg	75kg	100kg	150kg	50Ltr	100Ltr	135Ltr
PROPELLANT TYPE	0.8kg CO2	1.5kg CO2	3.0kg CO2	3.5kg CO2	4.0kg CO2	1.0kg CO2	2.0kg CO2	3.0kg CO2
FIRE RATING	34A, II B (275B), C		34A, IV B (317 B), C			34A, IV B (317 B)		
CLASS OF FIRE	A, B, C					A, B		
DISCHARGE TIME	32s	70s	110s	170s	200s	75s	150s	175s
DISCHARGE RANGE	10 meters					10 meters		
WORKING TEMPERATURE	-20°C to 60°C					5°C to 60°C		
GSIZE (L*D*H) MM	440 x 400 x 930	530 x 550 x 994	580 x 600 x 1180	660 x 690 x 1120	650 x 710 x 1320	530 x 550 x 994	660 x 690 x 1120	650 x 710 x 1320
APPROX. GROSS WEIGHT	55kg	96kg	137kg	171kg	230kg	95kg	171kg	205kg
FINISHING	Red Polyester Powder Coat RAL 3000					Red Polyester Powder Coat RAL 3000		
HOSE LENGTH	3/4" x 6 meters (option up to 12m)					3/4" x 6 meters (option up to 12m)		
SAFE OPERATING DIST.	6 meters					6 meters		
APPROVAL	  	 	 	 	 	  	 	  

Monnex BC Powder				Purple K BC Powder			
EXTINGUISHER MODEL	C-25MTC	C-50MTC	C-100MTC	C-50PTC	C-75PTC	C-100PTC	C-150PTC
CAPACITY	25kg	50kg	100kg	50kg	75kg	100kg	150kg
PROPELLANT TYPE	1.0kg CO2	1.5kg CO2	3.5kg CO2	1.5kg CO2	3.0kg CO2	3.5kg CO2	4.0kg CO2
FIRE RATING	III B (296B), C			IV B (317B), C			
CLASS OF FIRE	B, C			B, C			
DISCHARGE TIME	38s	95s	136s	79s	110s	150s	250s
DISCHARGE RANGE	10 meters			10 meters			
WORKING TEMPERATURE	-20°C to 60°C			-20°C to 60°C			
GSIZE (L*D*H) MM	440 x 400 x 930	530 x 550 x 994	660 x 690 x 1120	530 x 550 x 994	580 x 600 x 1180	660 x 690 x 1120	650 x 710 x 1320
APPROX. GROSS WEIGHT	55kg	96kg	171kg	96kg	137kg	171kg	230kg
FINISHING	Red Polyester Powder Coat RAL 3000			Red Polyester Powder Coat RAL 3000			
HOSE LENGTH	3/4" x 6 meters (option up to 12m)			3/4" x 6 meters (option up to 12m)			
SAFE OPERATING DIST.	6 meters			6 meters			
APPROVAL	 	 	 	 	 	 	 

## Stored Pressure Type Mobile Fire Extinguisher

	ABC 70% Dry Chemical Powder		Purple K BC Powder		AFFF Foam		CO2	
EXTINGUISHER MODEL	C-25ATP	C-50ATP	C-25PTP	C-50PTP	C-25FTP	C-50FTP	C-20C*	C-30C*
CAPACITY	25kg	50kg	25kg	50kg	25Ltr	50Ltr	20kg	30kg
PROPELLANT TYPE	Nitrogen		Nitrogen		Nitrogen		CO2	
FIRE RATING	34A, II B (275B), C		II B (275B), C		34A, II B (275B)		89 B	113 B
CLASS OF FIRE	A, B, C		B, C		A, B		B	
DISCHARGE TIME	32s	60s	30s	58s	50s	100s	44s	64s
DISCHARGE RANGE	10 meters		10 meters		10 meters		10 meters	
WORKING TEMPERATURE	-20°C to 60°C		-20°C to 60°C		5°C to 60°C		-20°C to 60°C	
GSIZE (L*D*H) MM	440 x 400 x 930	530 x 550 x 995	440 x 400 x 930	530 x 550 x 995	440 x 400 x 930	530 x 550 x 995	590 x 640 x 1470	590 x 640 x 1470
APPROX. GROSS WEIGHT	49kg	90kg	49kg	90kg	49kg	89kg	90kg	100kg
FINISHING	Red Polyester Powder Coat RAL 3000		Red Polyester Powder Coat RAL 3000		Red Polyester Powder Coat RAL 3000		Red Polyester Powder Coat RAL 3000	
HOSE LENGTH	3/4" x 6 meters (option up to 12m)		3/4" x 6 meters (option up to 12m)		3/4" x 6 meters (option up to 12m)		3/8" x 6 meters (option up to 12m)	
SAFE OPERATING DIST.	6 meters		6 meters		6 meters		2 meters	
APPROVAL	 	 	 	 	 	 	 	 



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The company reserves the right to change the specification without prior notice.