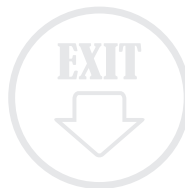




COMBAT[®]

WE ARE YOUR TRUSTED GUARDIAN GIVING YOU TOTAL PEACE OF MIND



ABOUT US

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 fire fighting 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 fire-fighting products and systems including:

- **Basic fire-fighting products:**
Fire extinguishers, hose reel, hydrant valves, sprinkler, alarm valves, alarm panel, foam pump, cabinets, etc.
- **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.
- Customized solutions for any fire protection that work in all industries.



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.

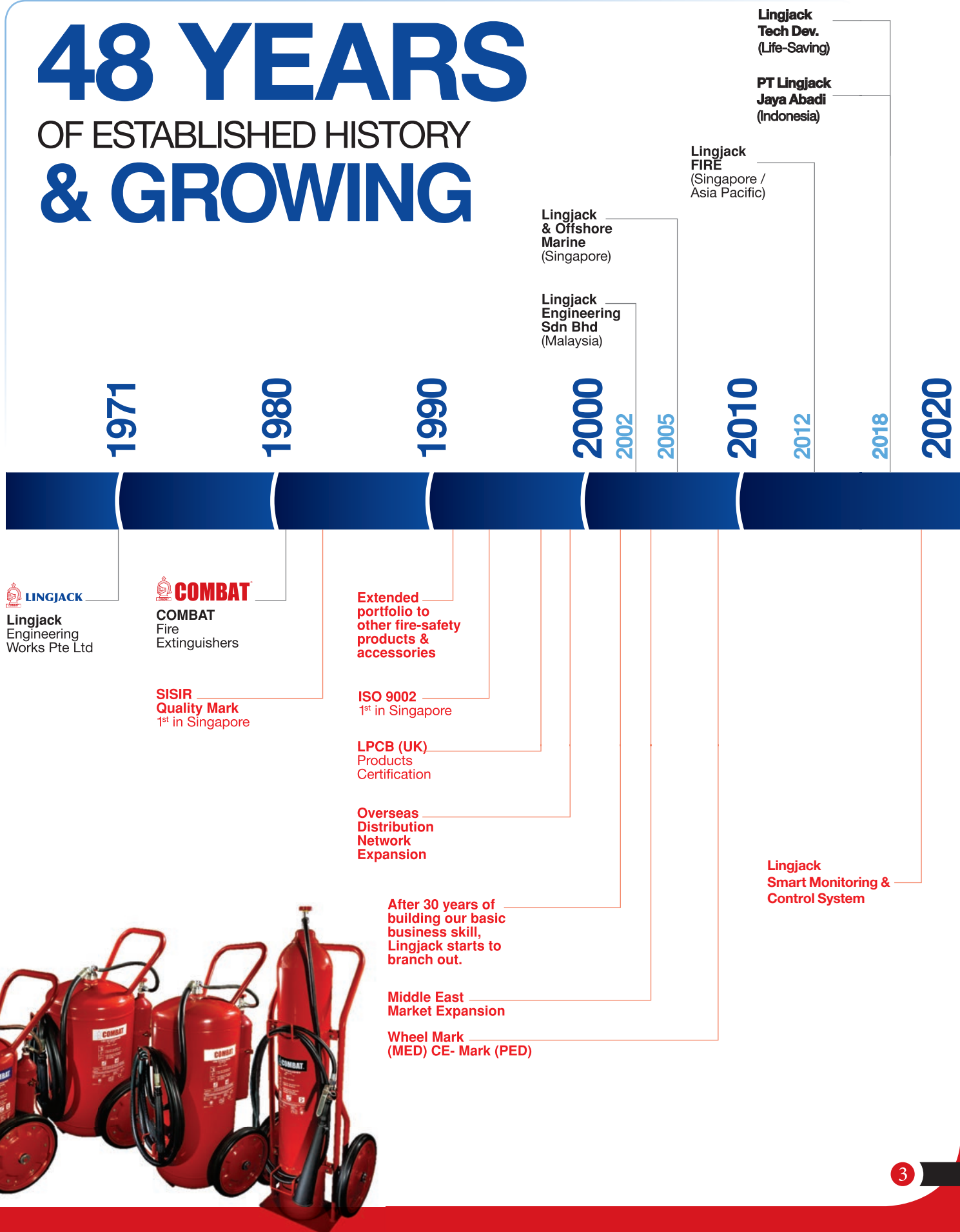
Our commitment to quality has enabled us to achieve international certifications including ISO 9001, LPCB, MED (Wheel Mark) and PED (CE Mark), as well as third-party approvals - Det Norske Veritas (DNV), American Bureau of Shipping (ABS), Germanischer Lloyd (GL), Lloyd's Registered (LR) and Bureau Veritas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



48 YEARS

OF ESTABLISHED HISTORY & GROWING





DISTRIBUTORSHIP & AREA



Tyco Water Products:
Asia



Viking Water Products:
Singapore



Akron Brass Monitors & Nozzles:
Industrial



Elkhart Brass Monitors & Nozzles:
Singapore, Thailand, Malaysia,
Vietnam, Myanmar



Siex Spain Gas Suppression Systems:
Singapore
*IG 01, 55, 100, 541, FM200,
Novex 0123, CO2



Buckeye Fire USA:
Asia
*UL Listed Fire Extinguishers,
*UL Listed Bladder Tanks, Foam Concentrates,
*UL Listed Wet Chemical kitchen systems



Amerex Fire Extinguisher



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



US Fire Pump



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



Notifier Alarm System:
EPC, Marine



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



Orchidee Powders & Foam:
Asia



COMBAT



ORCHIDEE



Mueller Co.

INTERNATIONAL DIVISION





OUR RANGE OF PRODUCTS





COMBAT®





OUR RANGE OF PRODUCTS





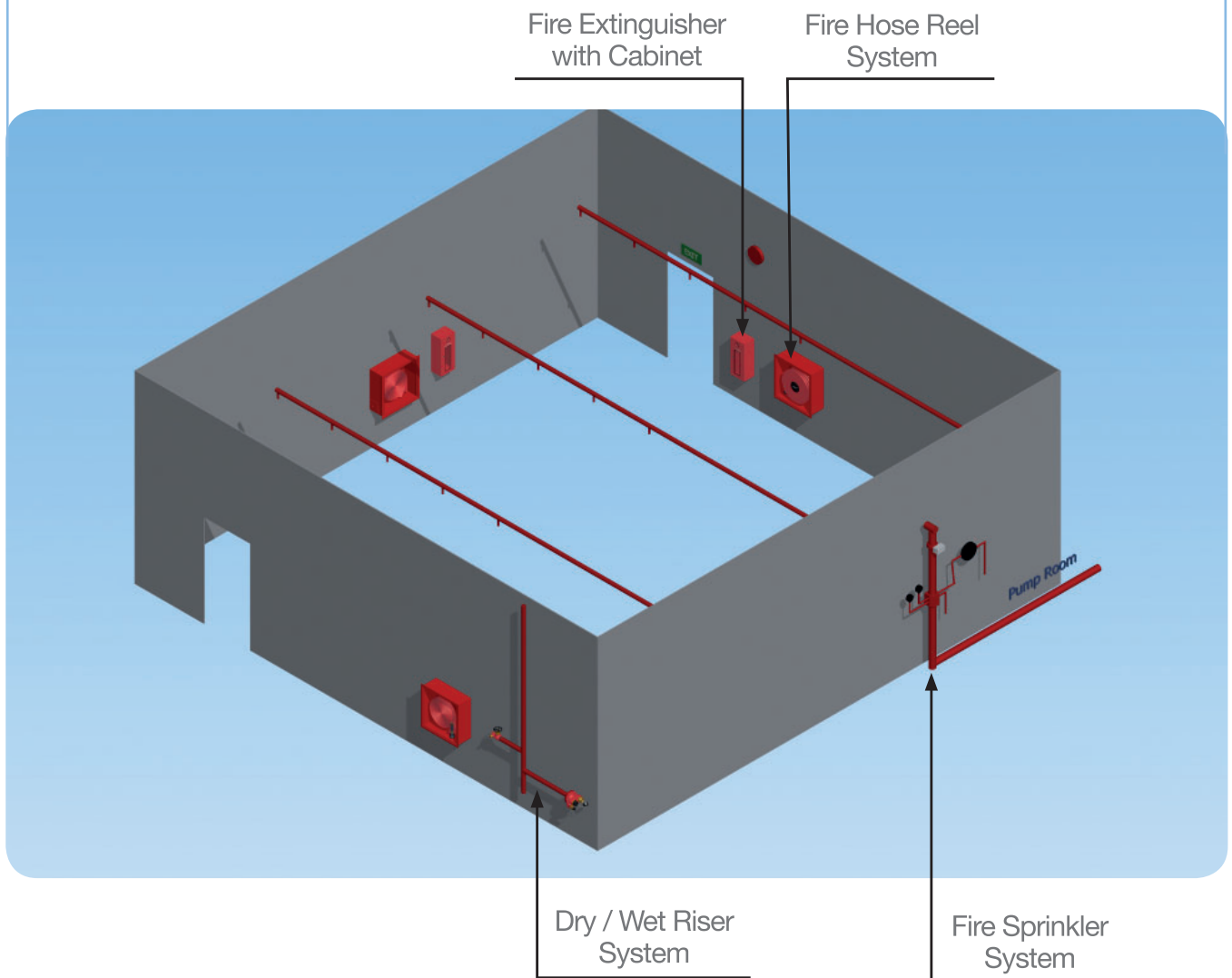
COMBAT®



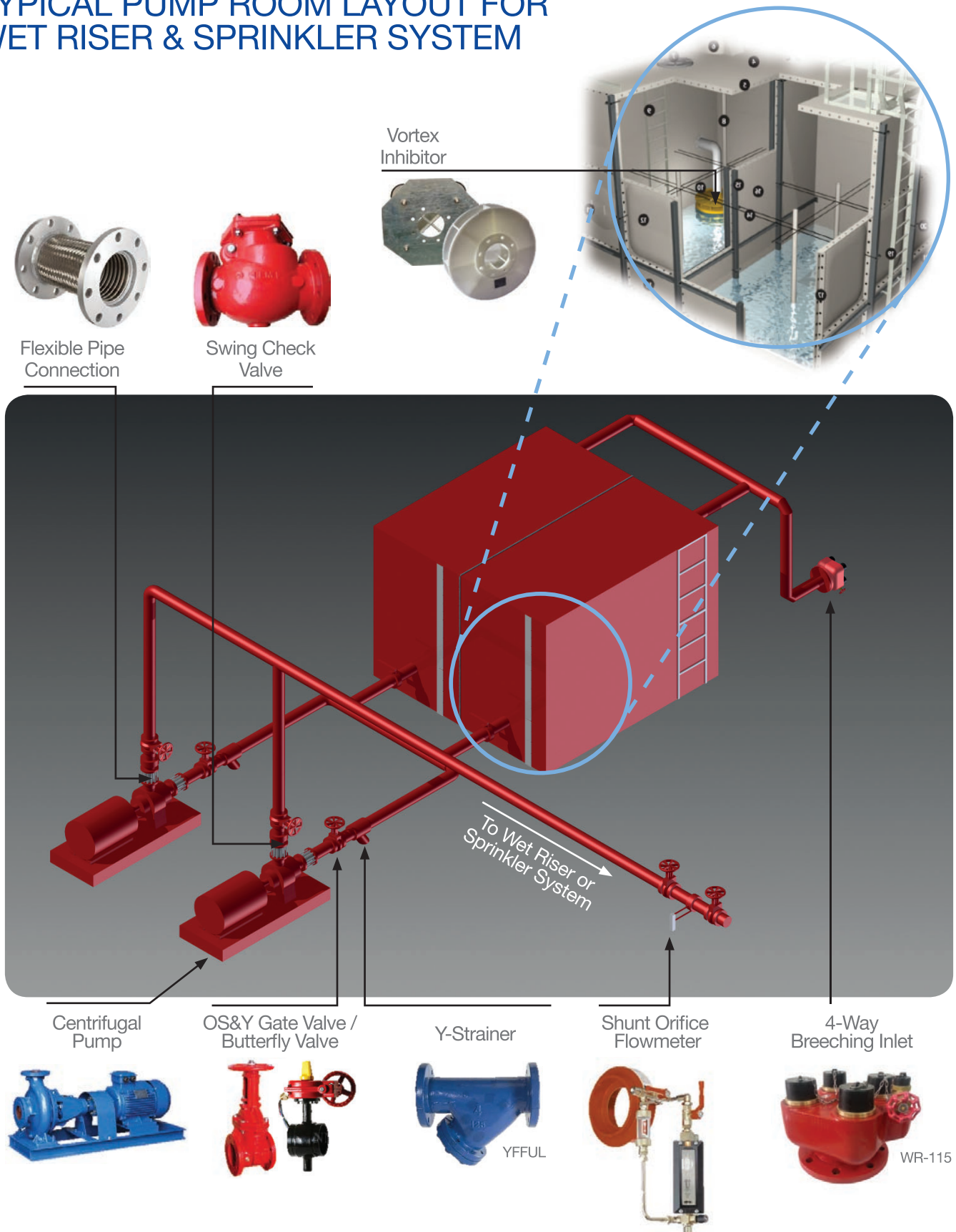
FIRE PROTECTION SYSTEMS AND EQUIPMENT

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





PUMP ROOM ACCESSORIES



OS&Y Gate Valve

Brand:	TYCO / Viking
Material:	Ductile Iron
Size Available:	2 1/2", 3", 4", 6", 8", 10" & 12"
Design pressure:	13.8 bar
Connection:	PN16, ANSI B16.1 Class 125



Swing Check Valve

Brand:	TYCO / Viking
Material:	Ductile Iron
Size Available:	2 1/2", 3", 4", 6", 8", 10" & 12"
Design pressure:	20.7 bar
Connection:	PN16, ANSI B16.1 Class 125



Y-Strainer (Model : YFFUL)

Brand:	Viking
Material:	Cast Iron
Size Available:	2 1/2", 3", 4", 6", 8", 10" & 12"
Design pressure:	12.1 bar
Connection:	PN16, ANSI B16.1 Class 125



Cert No. 037b/01

Vortex Inhibitor

Brand:	Vortibreak
Material:	Low Carbon Steel
Size Available:	3", 4", 6", 8", 10", 12", 14", 16" & 18"



Butterfly Valve with Gear Operator

Brand:	TYCO / Viking
Body Material:	Ductile Iron
Size Available:	2 1/2", 3", 4", 6", 8"
Design pressure:	20.7 bar
Connection:	Grooved joint dimension in accordance with ANSI/AWWA C606 and metric pipe specification



PSB Singapore



Cert No. 501



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
Test Pressure:	22.5 bar
Finishing:	Red Colour for Sprinkler System



Supervisory Switch (Model : OSYSU - 1)

Brand:	Potter
Material:	Die Cast Zinc
Size:	157 (L) x 57 (W) x 305mm (H)
Finishing:	Red Spatter Enamel
Contact Rating:	OSYSU-1 : One set of SPDT (Form C) OSYSU-2 : Two sets of SPDT (Form C) 15.00 Amps at 125/250 VAC 2.50 Amps at 30 VDC resistive



Wet Riser/Sprinkler Breeching Inlet Cabinet

Brand:	COMBAT®
Body Material:	Electro Galvanised Steel or Stainless Steel
Size:	2 Way: 570 (W) x 395 (H) x 305mm (D) 4 Way: 570 (W) x 570 (H) x 305mm (D)
Size (Frame & Door):	2 Way: 570 (W) x 395 (H) x 100 (D) x 30mm (Frame) 4 Way: 570 (W) x 570 (H) x 100 (D) x 30mm (Frame)
Lock type:	Spring Lock
Finishing:	Red Polyester Powder Coated or Hairline



Cert No.088A

Shunt Orifice Flowmeter

Brand:	Platon
Size Available:	2", 3", 4", 6" & 8"
Design Pressure:	12 bar
Connection:	Flange or Groove

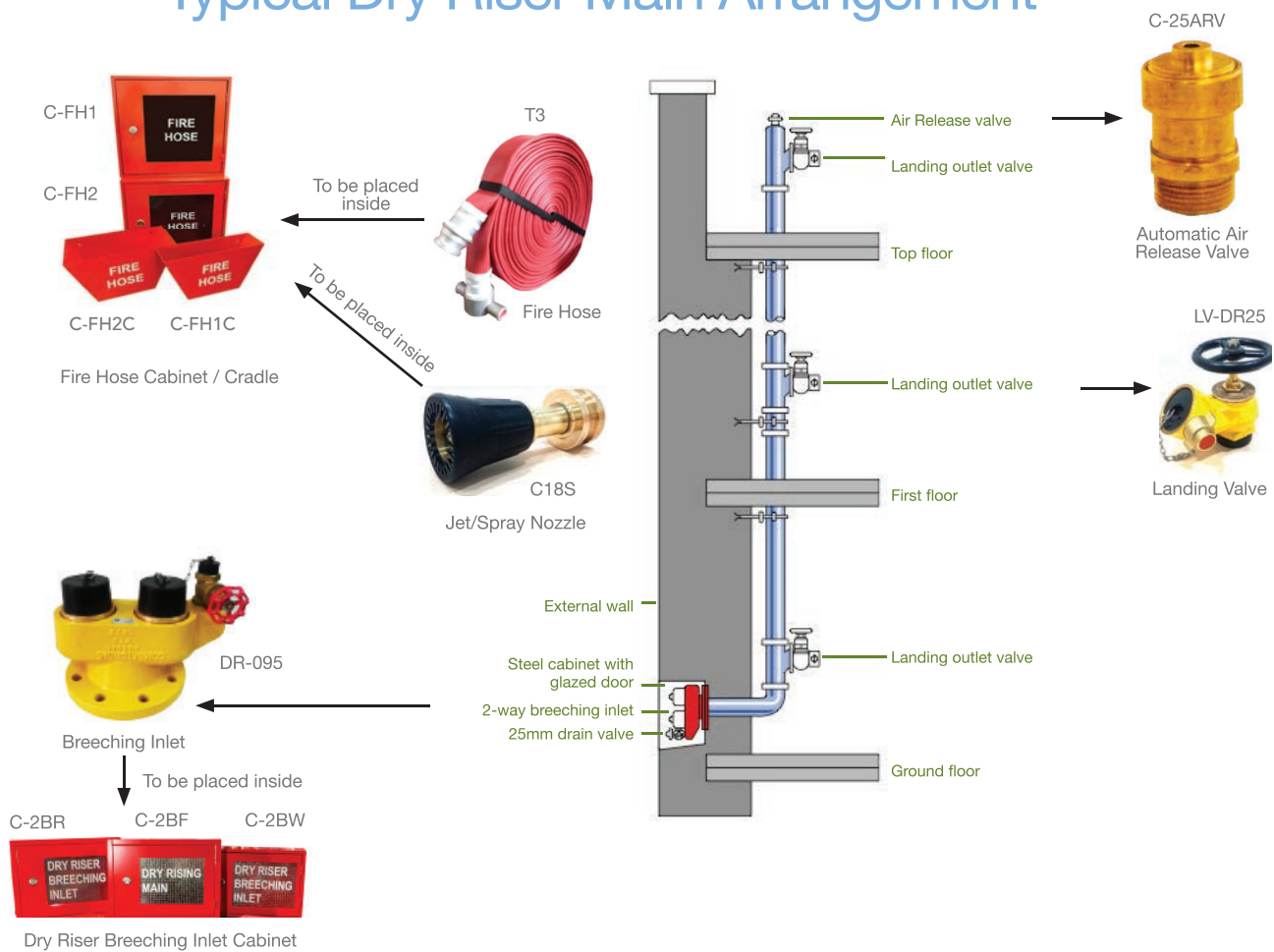
DRY RISER SYSTEMS

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 fire fighting 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

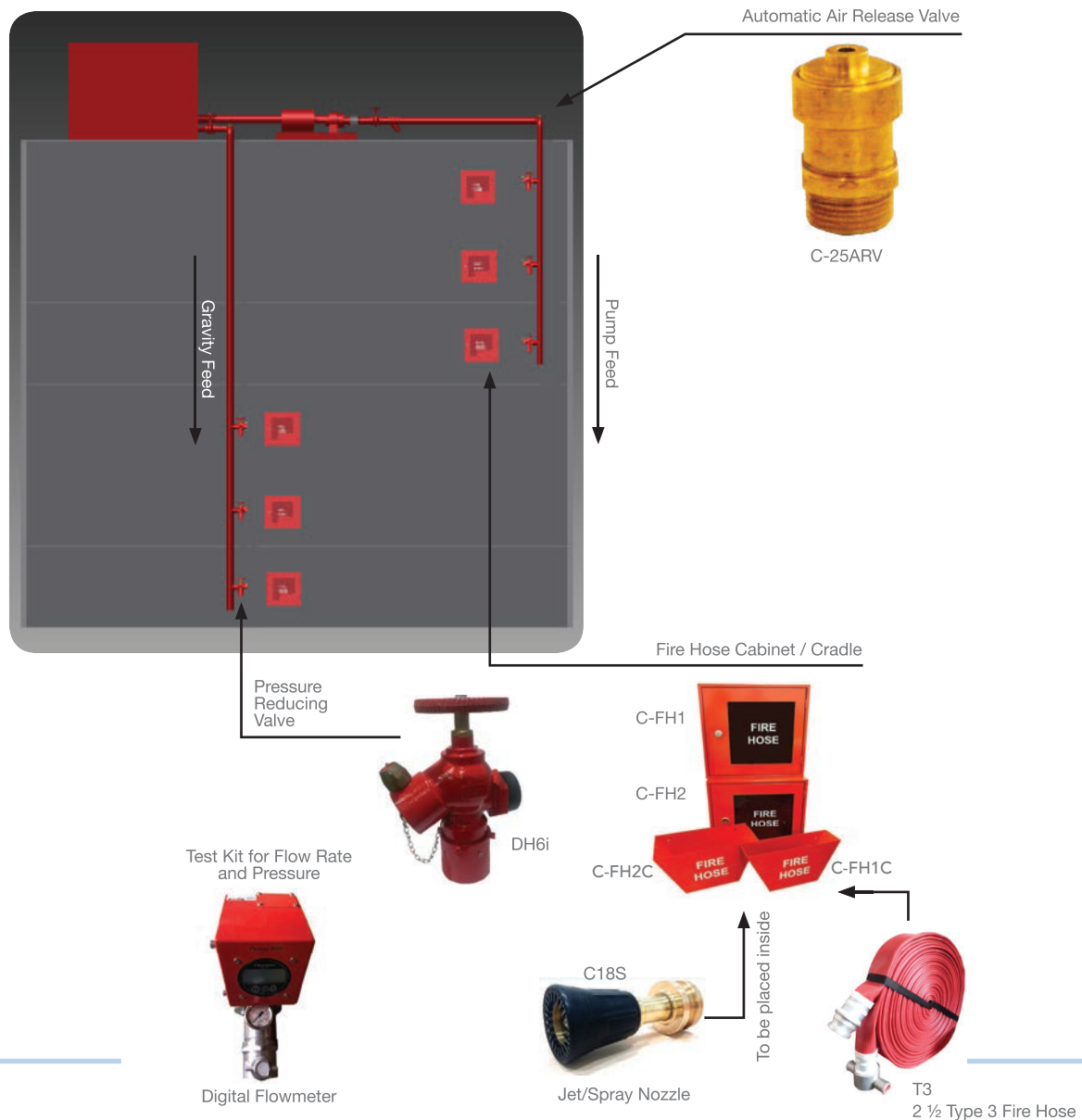
Wet risers are necessary for buildings over 60m high to provide water supply to all floors for fire fighting purposes.

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 Rising Main Arrangement



DRY & WET RISER SYSTEM COMPONENTS



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
Test Pressure:	22.5 bar
Finishing:	Yellow Colour for Dry Rising Main



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
Test Pressure:	22.5 bar
Finishing:	Red Colour for Wet Rising Main



Type 3 Layflat Fire Hose (Model : T3)

Brand:	COMBAT®
Material:	Synthetic Polydur
Size Available:	2 1/2"
Design Pressure:	17 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
Seat Test Pressure:	16.5 bar
Body Test Pressure:	22.5 bar
Friction Loss:	0.7 bar at flow rate of 9.0 ltr/sec
Flow Rate:	9 ltr/sec @ 4.7 bar
Finishing:	Yellow Colour for Dry Rising Main



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



Pressure Reducing Valve (Model : DH6)

Brand:	COMBAT®
Body Material:	Gunmetal BS 1400 LG2
Outlet Connection:	2½" BS 336 Instantaneous Female Coupling
Inlet Connection:	2½" BSPT(M) Thread
Design Pressure:	20 bar
Seat Test:	22 bar
Body Test:	30 bar
Inlet Pressure:	5 to 20 bar
Outlet Pressure:	3.5 bar to 8 bar



Jet/Spray Nozzle (Model : C18)

Brand:	COMBAT®
Material:	Brass
Size Available:	20 bar
Design Pressure:	370 ltr/min @ 6 bar
Connection:	2 1/2" BS336 Male Instantaneous



Automatic Air Release Valve (Model : C-25ARV)

Brand:	COMBAT®
Material:	Brass
Size Available:	20 bar
Design Pressure:	395 ltr/min @ 6 bar
Connection:	2 1/2" BS336 Male Instantaneous

Brand:	COMBAT®
Material:	Brass
Size Available:	1"
Design Pressure:	15 bar
Connection:	BSP Male Thread

DRY & WET RISER SYSTEM COMPONENTS



Dry Riser Breaching Inlet Cabinet

Brand:	COMBAT®
Body Material:	Electro Galvanised Steel or Stainless Steel
Size:	570 (W) x 395 (H) x 305mm (D)
Size: (Frame & Door)	570 (W) x 395 (H) x 100 (D) x 30mm (Frame)
Lock Type:	Spring Lock
Finishing:	Red Polyester Powder Coated or Hairline

Wet Riser Breaching Inlet Cabinet

Brand:	COMBAT®
Body Material:	Electro Galvanised Steel or Stainless Steel
Size:	570 (W) x 570 (H) x 305mm (D)
Size: (Frame & Door)	570 (W) x 570 (H) x 100 (D) x 30mm (Frame)
Lock Type:	Spring Lock
Finishing:	Red Polyester Powder Coated or Hairline



Single or Double Fire Hose Cabinet

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

Single or Double Fire Hose Cradle

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

FIRE HOSE REEL SYSTEMS

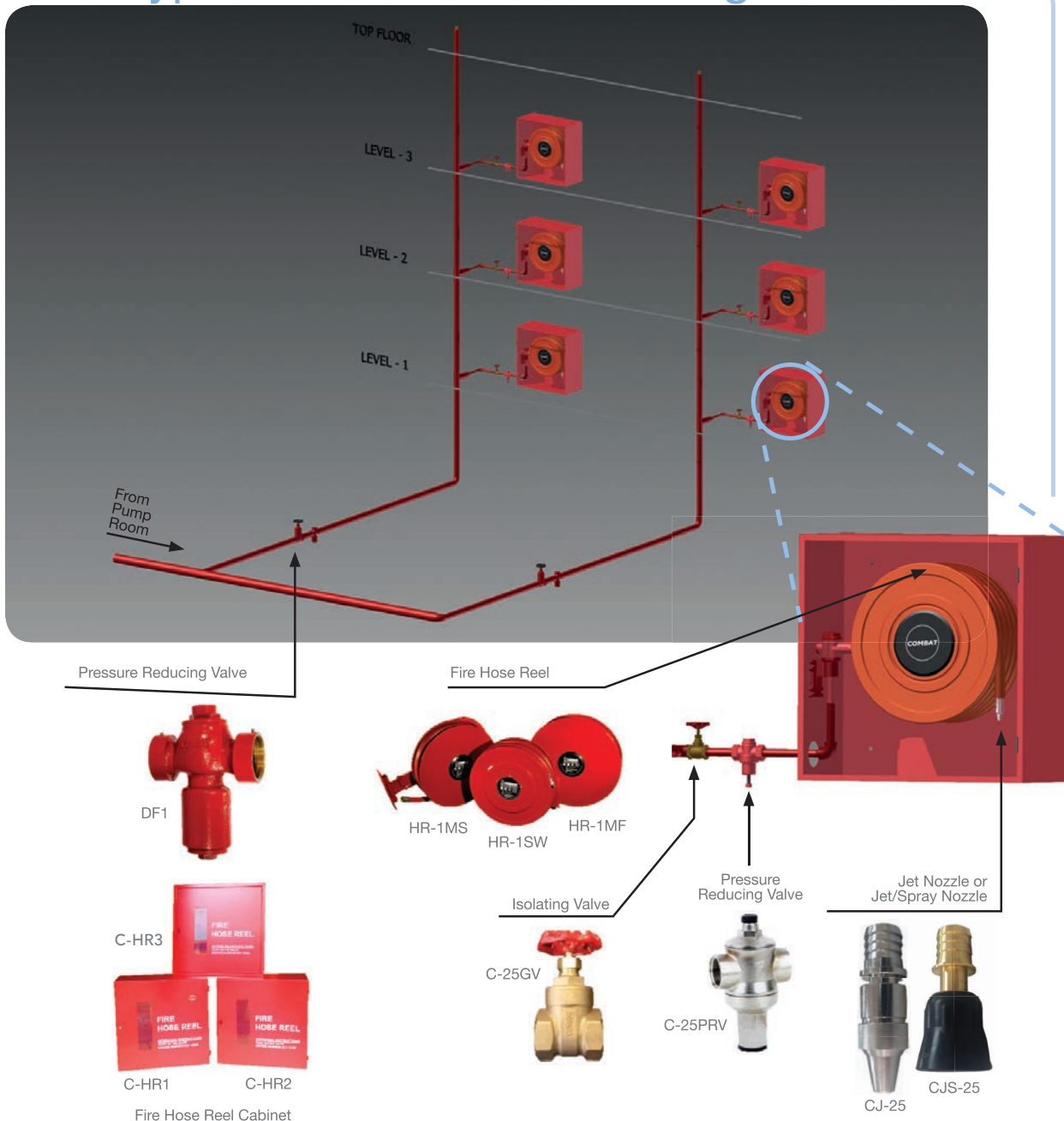
Fire Hose Reel Systems consist of pumps, pipes, water supply and hose reels that are strategically located inside a building to provide a readily accessible and controlled supply of water to combat fire.

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





FIRE HOSE REEL SYSTEM COMPONENTS

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)



Fire Hose Reel



HR-1MSF

HR-1MF

HR-1SW

HR-1SWS

Brand:	COMBAT®
Material:	Electro Galvanized Plate or Stainless Steel Plate
Size:	1" or 3/4"
Length:	30m
Flow Rate (Jet Nozzle):	46 lpm @ 6 bar
Flow Rate (Jet/Spray Nozzle):	70 lpm @ 6 bar (Spray) 60 lpm @ 6 bar (Jet)
Design Pressure:	12 bar
Test Pressure:	18 bar at 5 mins



2" Pressure Reducing Valve (Model : DF1)

Brand:	COMBAT®
Body Material:	Gunmetal BS1400 LG2
Outlet Connection:	2" BSP(F) Thread
Inlet Connection:	2" BSP(F) Thread
Design Pressure:	20 bar
Body Test:	30 bar
Inlet Pressure:	5 to 20 bar
Outlet Pressure:	1 bar to 8 bar
Flow Rate:	486 ltr/min @ 4 bar pressure drop



1" Pressure Reducing Valve (Model : C-25PRV)

Brand:	COMBAT®
Body Material:	Nickel Chrome Plated
Outlet Connection:	1" BSPT (F) Thread
Inlet Connection:	1" BSPT (F) Thread
Design Pressure:	16 bar
Outlet Pressure:	1.5 bar to 4.5 bar
Flow Rate:	71 ltr/min @ 2 bar pressure drop



1" Isolating Valve (Model : C-25GV)

Brand:	COMBAT®
Material:	Brass
Size:	1"
Design Pressure:	15 bar



C-HR2

C-HR1

Hose Reel Cabinet

Brand:	COMBAT®
Body Material:	Electro Galvanised Steel or Stainless Steel
Size:	800 (W) x 800 (H) x 360mm (D)
Size (Frame & Door):	800 (W) x 800 (H) x 100 (D) x 30mm (Frame)
Lock Type:	Lock & Key, Cam Lock or Spring Lock
Finishing:	Red Polyester Powder Coated or Hairline



High Pressure Hose Reel

Brand:	COMBAT®
Material:	Electro Galvanized Plate or Stainless Steel Plate
Waterway:	Gunmetal LG2 or Titanium
Size:	1" or 1 1/4"
Length:	30m
Flow Rate:	162 lpm @ 6 bar (Jet) for 1" Hose Reel / 212 lpm @ 6 bar (Jet) for 1 1/4" Hose Reel
Design Pressure:	20 bar
Test Pressure:	30 bar at 5 mins
Application:	Sea Water



Nozzle Cabinet (Model: C-JN2)

Brand:	COMBAT®
Body Material:	Electro Galvanised Steel
Size:	138 (H) x 138 (L) x 53mm (D)
Lock Type:	Lock & Key
Finishing:	Red Polyester Powder Coated

FIRE SPRINKLER SYSTEMS

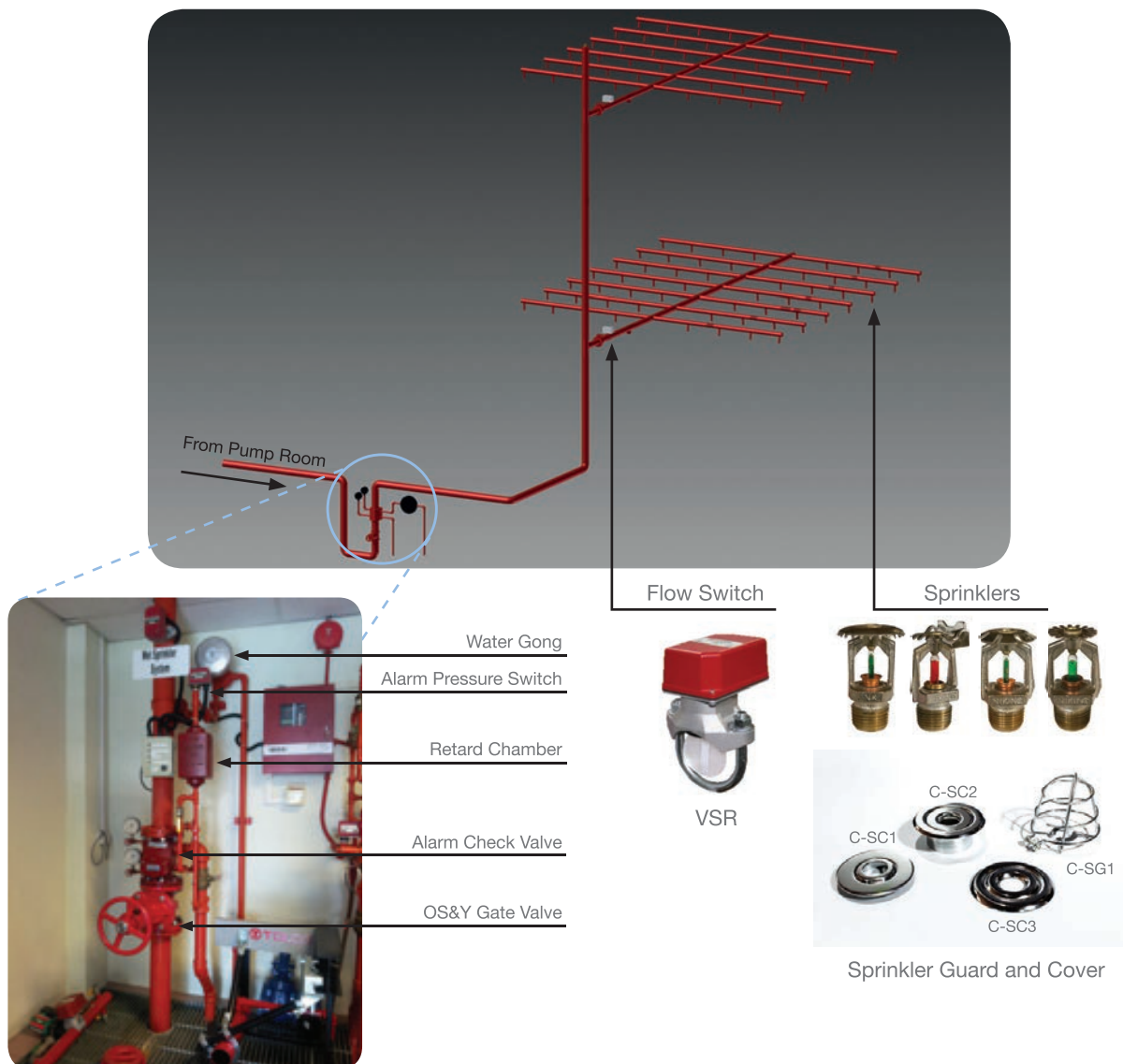
COMBAT® Fire Sprinkler Systems are recognised to be highly effective in fire suppression and are widely used in commercial and industrial buildings. The system consists of fire sprinklers which are connected to a water distribution piping system and are mounted on ceilings or walls.

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 waterflow 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





SPRINKLER SYSTEM COMPONENTS



Water Gong

Brand:	TYCO / Viking
Housing Material:	Cast Iron
Inlet Connection:	3/4" NPT(F) Thread
Outlet Connection:	1" NPT(F) Thread
Design Pressure:	12 bar



Alarm Check Valve

Brand:	TYCO / Viking
Body Material:	Ductile Iron
Inlet/Outlet Connection:	Flanged/Flanged or Flanged/Grooved or Grooved/Grooved
Drain Connection:	1" NPT(F) Thread
Design Pressure:	17.2 bar



Flow Switch (Model : VSR)

Brand:	Potter
Service Pressure:	31 bar
Flow Sensitivity:	15-38 ltr/min
Maximum Surge:	5.5 m/s
Contact Ratings:	Two sets of SPDT (Form C) 10.0 Amps at 125/250VAC 2.0 Amps at 30 VDC
Conduit Entrances:	Two knockouts provided for 1/2" conduit. Individual switch compartments suitable for dissimilar voltages.



OS&Y Gate Valve

Brand:	TYCO / Viking
Material:	Ductile Iron
Size Available:	2 1/2", 3", 4", 6", 8", 10" & 12"
Design Pressure:	13.8 bar
Connection:	PN16, ANSI B16.1 Class 125



Supervisory Switch (Model : OSYSU-1)

Brand:	Potter
Body Material:	Die Cast Zinc
Size:	157 (L) x 57 (W) x 305mm (H)
Finishing:	Red Spatter Enamel
Contact Rating:	OSYSU-1 : One set of SPDT (Form C) OSYSU-2 : Two sets of SPDT (Form C) 15.00 Amps at 125/250 VAC 2.50 Amps at 30 VDC resistive
Temperature Range:	: -40°C to 60°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.
OD 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			



Kindly contact our sales team for more information on our full range of Sprinklers.

Sprinkler

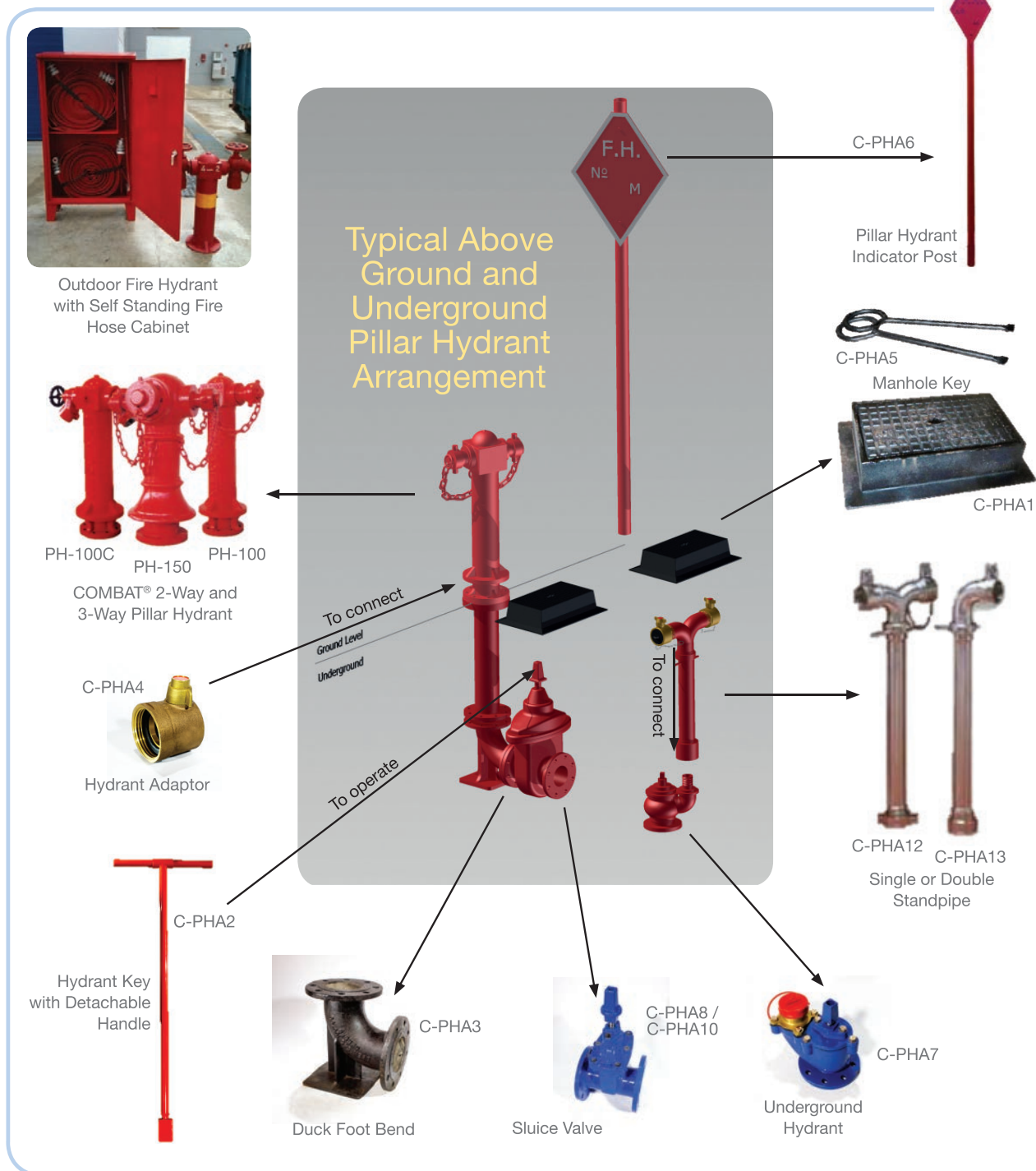
Brand:	TYCO / Viking
Body Material:	Brass
Type:	Pendant, Sidewall, Upright, Conceal, Dry Pendant, ESFR
Response:	Standard or Quick
Response Temperature:	68 degC, 79 degC and 93 degC

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 that 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.



PILLAR HYDRANT COMPONENTS



Duck Foot Bend (Model : C-PHA3)

Brand:	COMBAT®
Inlet:	4" PN16 Flange Optional : 6" PN16 Flange)
Outlet:	4" PN16 Flange
Body Material:	Ductile Iron
Size:	300mm (L) x 305mm (H)



Hydrant Adaptor (Model : C-PHA4)

Brand:	COMBAT®
Inlet:	2 1/2" LVT Thread
Outlet:	2 1/2 BS 336 Instantaneous Coupling
Body Material:	Brass
Size:	229mm (L) x 350mm (H)



Hydrant Key with Detachable Handle
(Model : C-PHA2)

Brand:	COMBAT®
Body Material:	Carbon Steel
Size:	1000mm (L) x 510mm (W)



Single and Double Standpipe
(Model : C-PHA12 & C-PHA13)

Brand:	COMBAT®
Body Material:	Aluminium Alloy
Inlet Connection:	2 1/2" V Thread
Outlet Connection:	2 1/2" BS336 Female Instantaneous



Manhole Key (Model : C-PHA5)

Brand:	COMBAT®
Body Material:	Cast Iron
Size:	335mm (L)



Hydrant Cover (Model : C-PHA1)

Brand:	COMBAT®
Body Material:	Cast Iron
Size:	460 mm (L) x 295 mm (D) x 100 mm (H)



Underground Hydrant (Model : C-PHA7)

Brand:	COMBAT®
Inlet:	3" PN16 Flange
Outlet:	Copper Alloy to BS 1400 Round / V thread
Body Material:	Grey Cast Iron to BS 1452
Size:	345mm (L) x 340mm (W)



Sluice Valve (Model : C-PHA8 / C-PHA10)

Brand:	COMBAT®
Material:	Ductile Iron
Type:	- Non Rising - Stem Handwheeled - Key Operated
Body Test Pressure:	16 bar



Pillar Hydrant Indicator Post (Model : C-PHA6)

Brand:	COMBAT®
Body Material:	Carbon Steel
Height:	7 FT



**COMBAT® 2-Way and 3-Way
Pillar Hydrant**



3-Way Non Controllable Pillar Hydrant
(Model : PH-150)

Brand:	COMBAT®
Test Pressure:	25 bar
Design Pressure:	16 bar
Body Material:	Cast Iron / Ductile Iron
Inlet Connection:	150mm PN16
Outlet Connection:	2 x 2 1/2" LVT Thread and 4" Pumper Outlet



2-Way Non Controllable Pillar Hydrant
(Model : PH-100)

Brand:	COMBAT®
Test Pressure:	25 bar
Design Pressure:	16 bar
Body Material:	Cast Iron / Ductile Iron
Inlet Connection:	100mm PN16
Outlet Connection:	2 1/2" LVT Thread



2-Way Controllable Pillar Hydrant
(Model : PH-100C)

Brand:	COMBAT®
Test Pressure:	25 bar
Design Pressure:	16 bar
Body Material:	Cast Iron / Ductile Iron
Inlet Connection:	100mm PN16
Outlet Connection:	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 Finished

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 1380 (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
Outlet:	2 1/2" BS 336 Instantaneous Female
Design Pressure:	16 bar
Body Test Pressure:	24 bar
Seat Test Pressure:	16.5 bar
Body material:	Carbon Steel (Sch 40)
Flow Rate Base on 1 outlet:	1000 ltr/min
Finishing:	Red Colour



**2 Way Controllable
Pillar Hydrant**

Brand:	Combat®
Inlet:	4" ANSI #150RF
Outlet:	2 1/2" BS 336 Instantaneous Female
Design Pressure:	16 bar
Body Test Pressure:	24 bar
Seat Test Pressure:	16.5 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, PED (CE Mark), 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.



Dry Powder Portable Fire Extinguisher

- BS EN 3 & SS EN 3
- 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 BC Powder	Purple K BC Powder	ABC 40% Dry Chemical Powder			Monnex BC Powder	Purple K BC Powder
Propellant Gas	Nitrogen								110g CO2	150g CO2	225g CO2	225g CO2	
Fire Rating	5A/55B	13A/55B	13A/55B	21A/144B	34A/233B	43A/233B	233B	233B	27A/233B	43A/233B	55A/233B	233B	
Working Pressure	14 bar								10.3 bar	14.6 bar	19.7 bar	20 bar	
Working Temperature	-20°C to 60°C												
Hose Length	N.A.			440mm	440mm	530mm	530mm	530mm	440mm	530mm	620mm	620mm	
Size (D*H) mm	85 x 320	95 x 455	115 x 470	139 x 465	181 x 510	181 x 606	181 x 606	181 x 606	181 x 526	181 x 575	181 x 654	181 x 654	
Approval													

note: Singapore market does not allow C marking.



Foam Portable Fire Extinguisher

- BS EN 3 & SS EN 3
- Effective on Class A, B and C 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, paint shops and petrol stations
- Available in Cartridge type



Model	C-6FSE	C-9FSE	C-9FCE
Capacity	6ltr	9ltr	9ltr
Extinguishing Medium	AFFF Foam		
Propellant Gas	Nitrogen		75g CO ₂
Fire Rating	8A/113B	34A/233B	34A/233B
Working Pressure	14 bar		17 bar
Working Temperature	5°C to 60°C		
Hose Length	440mm	530mm	
Size (D*H) mm	181 x 510	181 x 606	181 x 575
Approval			



Water Portable Fire Extinguisher

- BS EN 3 & SS EN 3
- 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



Model	C-6WSE	C-9WSE	C-9WSEA	C-9WCEA
Capacity	6ltr	9ltr	9ltr	9ltr
Extinguishing Medium	Water		Water Additives	
Propellant Gas	Nitrogen			55g CO2
Fire Rating	8A	13A	21A	21A
Working Pressure	14 bar			16.5 bar
Working Temperature	+5°C to +60°C			
Hose Length	450mm	530mm		
Size (D*H) mm	181 x 510	181 x 606		
Approval	LPCB Cert No. 501	CE 0832 LPCB Cert No. 501	CE 0832 LPCB Cert No. 501	CE 0832 LPCB Cert No. 501



Carbon Dioxide Portable Fire Extinguisher

- BS EN 3 & SS EN 3
- Heavy duty hose & high-pressure hardware
- Suitable for use on live electrical equipment
- Effective suppression of Class B fires




Model	C-2CSEC	C-5CSEC
Capacity	2kg	5kg
Extinguishing Medium	CO2	
Propellant Gas	CO2	
Fire Rating	34B/C	55B/C
Working Pressure	60 bar	
Working Temperature	-20°C to 60°C	
Hose Length	335mm	600mm
Size (D*H) mm	114 x 500	155 x 645
Approval	0832 LPCB Cert No. 501	0832 LPCB Cert No. 501



Halotron™ I Portable Fire Extinguisher

- SS EN 3
- Eco-friendly replacement for Halon 1211
- Clean gas with no residue and safe for the environment
- High performance and lightweight
- Effective on Class A, B, C & E fires
- Widely used in offices, M&E rooms and server rooms



Model	C-2HSE	C-3HSE	C-6HSE
Capacity	2kg	4kg	6kg
Extinguishing Medium	Halotron I		
Propellant Gas	Argon		
Fire Rating	5A/34B	8A/55B	13A/70B
Working Pressure	7 bar	9 bar	
Working Temperature	-20°C to 60°C		
Hose Length	440mm		
Size (D*H) mm	98 x 455	139 x 460	181 x 505
Approval			



Wet Chemical Portable Fire Extinguisher

- BS EN 3 & SS EN 3
- Latest requirement by SCDF to install next to deep fryers
- Hose applicator and nozzle
- Effective for kitchen fire
- Effective on Class A, B & F fires



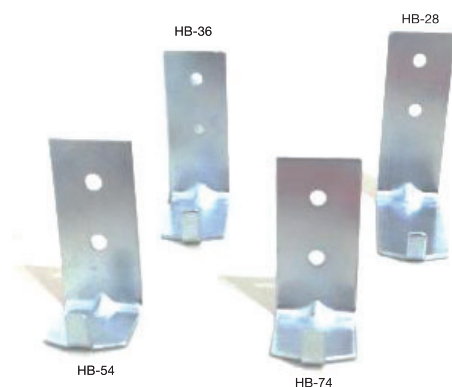
Model	F6 (C-6KSE)
Capacity	6ltr
Extinguishing Medium	Fatseal
Propellant Gas	Nitrogen
Fire Rating	21A/113B/75F
Working Pressure	9 bar
Working Temperature	0°C to 60°C
Hose Length	490mm
Size (D*H) mm	160 x 514
Approval	LPCB Cert No. 867a SETSCO



ACCESSORIES FOR PORTABLE FIRE EXTINGUISHERS



Vehicle Bracket



Hook Bracket



Fire Extinguisher Cabinet



Fire Blanket

Fire Extinguisher Model	C-1ASE	C-2ASE	C-3ASE	C-4ASE	C-6ASE	C-9ASE	C-12ASE	C-9MSE	C-9PKSE	C2CSEC	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-52MW
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-6KSE	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-S1MW	C-M1SW	C-L1SW
Cabinet SS (Cam & Lock)			C-L2SW			C-S2MW	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

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. All our fire extinguishers are PED (CE Mark) and MED (Wheel Mark) certified.

Mobile Fire Extinguishers are designed to protect high-risk areas – onshore and offshore facilities, manufacturing plants and warehouses etc., where the potential for large fires 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 manoeuvred and fully operated by one person.



Cartridge Type Mobile Fire Extinguisher

Extinguisher Model	C-25ATC	C-50ATC	C-75ATC	C-100ATC	C-150ATC	C-50FTC	C-100FTC	C-135FTC	C-25MTC	C-50MTC	C-100MTC	C-50PTC	C-75PTC	C-100PTC	C-150PTC
Capacity	25kg	50kg	75kg	100kg	150kg	50ltr	100ltr	135ltr	25kg	50kg	100kg	50kg	75kg	100kg	150kg
Extinguishing Medium	ABC 70% Dry Chemical Powder					AFFF Foam			Monnex BC Powder			Purple K BC Powder			
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	1.0kg CO2	1.5kg CO2	3.5kg CO2	1.5kg CO2	3.0kg CO2	3.5kg CO2	4.0kg CO2
Fire Rating	34A, II B (275 B), C	34A, IV B (317 B), C				34A, IV B (317 B)			III B (296 B), C			IV B (317 B), C			
Class of Fire	A, B, C					A, B			B, C			B, C			
Discharge Time	32s	70s	110s	170s	200s	75s	150s	175s	38s	95s	136s	79s	110s	150s	250s
Discharge Range	10m														
Working Temperature	-20°C to 60°C					5°C to 60°C			-20°C to 60°C			-20°C to 60°C			
Finishing	Red Polyester Powder Coat RAL 3000														
Hose Length	3/4" x 6 meters (option up to 12 meter)														
Wheel Size	Diameter 406mm x 50mm														
GSize (L*D*H) mm	440 x 400 x 930	530 x 550 x 995	580 x 600 x 1180	660 x 690 x 1120	650 x 710 x 1320	530 x 550 x 995	660 x 690 x 1120	650 x 710 x 1320	440 x 400 x 930	530 x 550 x 995	660 x 690 x 1120	530 x 550 x 995	580 x 600 x 1180	660 x 690 x 1120	650 x 710 x 1320
Gross Weight	55kg	96kg	137kg	171kg	230.5kg	95kg	171kg	205kg	55kg	96kg	171kg	96kg	137kg	171kg	231kg
Safe Operating System	6 meters														
Approval	n/a														

Stored Pressure Type Mobile Fire Extinguisher

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
Extinguishing Medium	ABC 70% Dry Chemical Powder		Purple K BC Powder		AFFF Foam		CO2	
Propellant Type	Nitrogen						CO2	
Fire Rating	34A, II B (275 B), C		II B (275 B), C		34A, II B (275 B)		89 B, C	113 B, C
Class of Fire	A, B, C		B, C		A, B		B, C	
Discharge Time	32s	60s	30s	58s	50s	100s	44s	64s
Discharge Range	10m							
Working Temperature	-20°C to 60°C		-20°C to 60°C		5°C to 60°C		-20°C to 60°C	
Finishing	Red Polyester Powder Coat RAL 3000							
Hose Length	3/4" x 6 meters (option up to 12 meter)						3/8" x 6 meters (option up to 12 meter)	
Wheel Size	Diameter 406mm x 50mm							
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
Gross Weight	49kg	90kg	49kg	90kg	50kg	89kg	90kg	100kg
Safe Operating System	6 meters						2 meters	
Approval								

*Pending MED Approval (Renewal)



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