

PRODUCT CATALOGUE 2024



CORPORATE PROFILE

About Us

AITO Firework Holding Sdn Bhd is a Malaysia Bumiputera status company, a leading fire protection company in Malaysia through years of experience and expertise in the industry.

Vision

To be a corporate company that provides professional services worldwide

Quality Control

AITO FIREWORK HOLDING has been awarded ISO 9001 : 2015, symbolizing our quality management system thus placed us to be the best among the best.

Distributor of:

- Portable Fire Extinguishers
- Mobile Fire Extinguishers
- Fire Hose Reels
- Landing Valves
- Breeching Inlets
- Fire Hydrant Equipment
- Nozzles
- Smoke Alarms
- Fire Blankets
- Canvas Hoses
- Cabinets
- CO2 Fire Extinguishing System
- Smoke Detector
- BlazeCut T-Series
- Ai-LITH Lithium-Ion Fire Extinguisher
- Sensia
- Shark Robotics
- Smart Smoke Detector Tester
- Smart Home Device
- Fire Hose

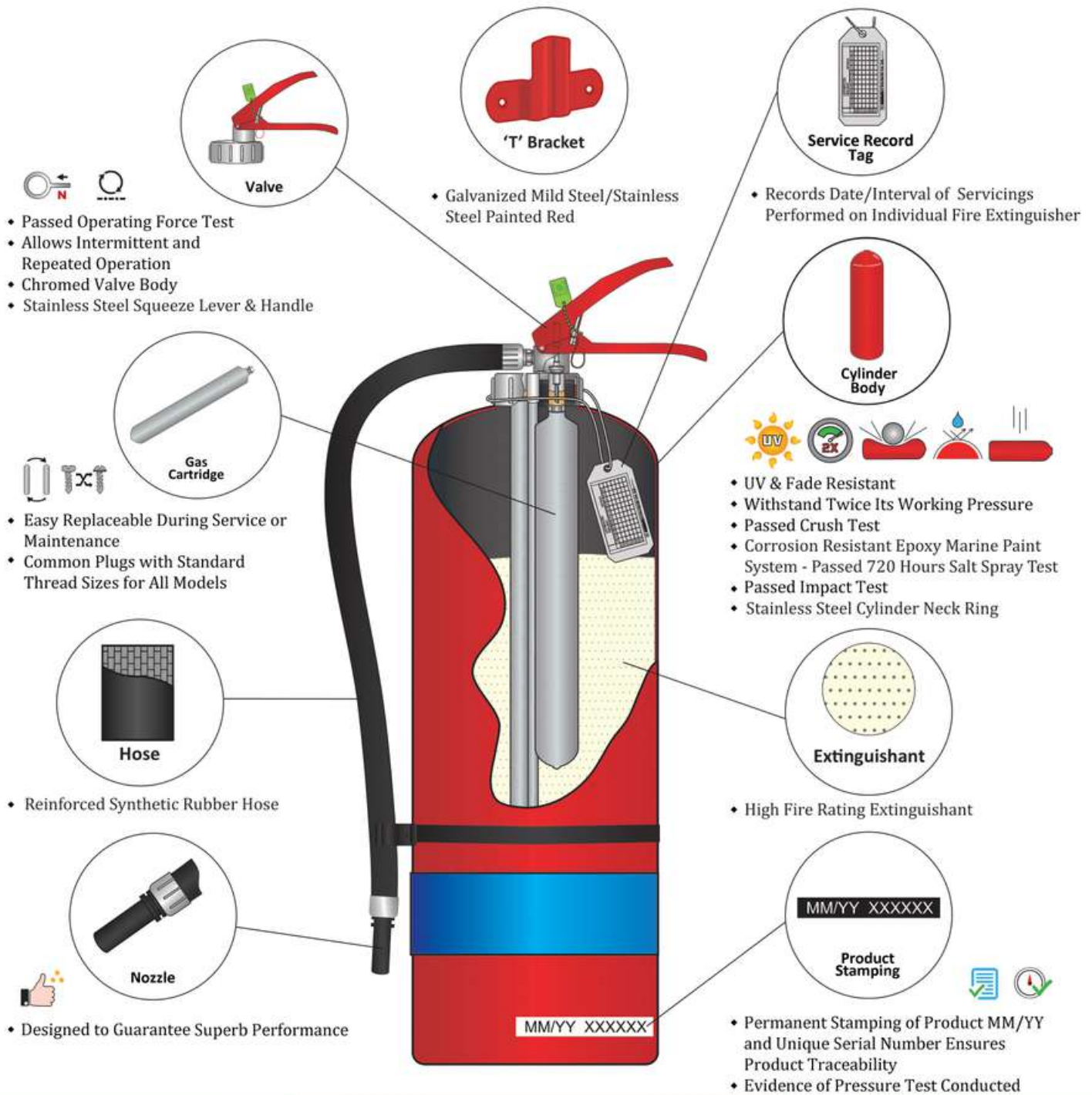
Our Services:

- Service & Maintenance
- Supply
- Solution
- Installation
- Consultation
- Training

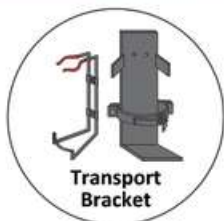
FIRE EXTINGUISHER



Corrosion Resistant (Cartridge Operated Type) Portable Fire Extinguisher



OPTIONAL ACCESSORIES



Secures Fire Extinguisher Firmly on Vehicles with "Quick Release" Feature (for land usage)

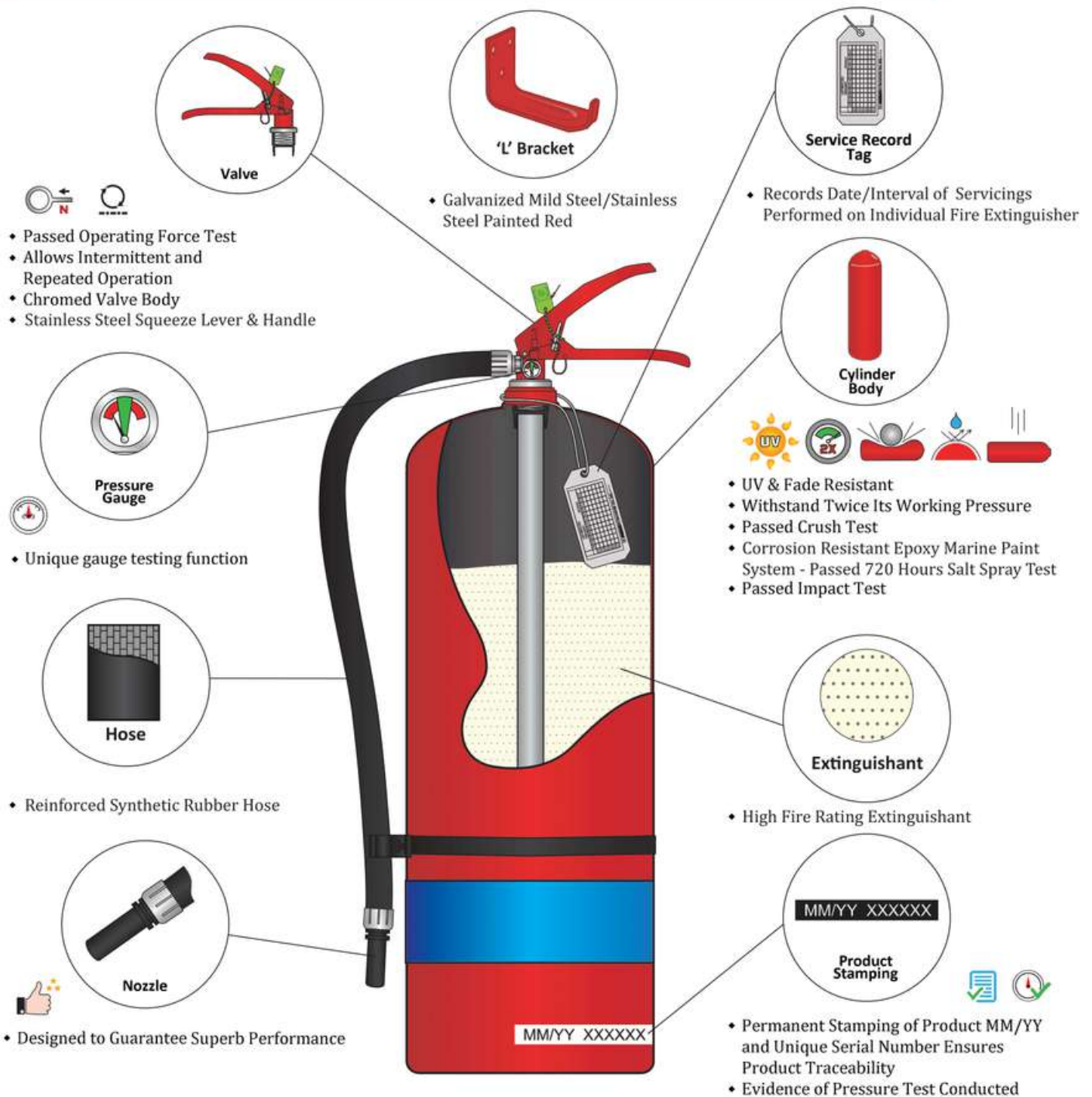


Ideal for industrial locations and areas. Protecting fire extinguishers from accidental damage, where bumps and scrapes could damage fire extinguishers.

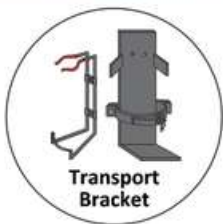


Protects Fire Extinguisher from Exposure to Extreme Environment eg. Sunlight, Seawater and etc

**Corrosion Resistant (Stored Pressure Type)
Portable Fire Extinguisher**



OPTIONAL ACCESSORIES



Secures Fire Extinguisher Firmly on Vehicles with "Quick Release" Feature (for land usage)



Ideal for industrial locations and areas. Protecting fire extinguishers from accidental damage, where bumps and scrapes could damage fire extinguishers.



Protects Fire Extinguisher from Exposure to Extreme Environment eg. Sunlight, Seawater and etc

Stored Pressure Type ABC Dry Powder Portable Fire Extinguisher



FEATURES

- ✓ Fully deep drawn from cold rolled steel
- ✓ Externally coated with polyester powder
- ✓ Pressure tested to twice the extinguisher's working pressure
- ✓ Passed 480 hours salt spray test



EC-1

EC-2

EC-3

EC-4

EC-6

EC-9

Model	EC-1*	EC-2*	EC-3*	EC-4	EC-6	EC-9
Type	Stored Pressure Type					
Extinguishant	ABC Dry Powder					
Capacity	1 kg	2 kg	3 kg	4 kg	6 kg	9 kg
Propellant	Nitrogen (N ₂)					
Valve	Controllable Non Ferrous Valve with Pressure Indicator					
Body Diameter	79 mm	110 mm	130mm	130 mm	158 mm	178 mm
Overall Height	325 mm	370 mm	425 mm	525 mm	525mm	587mm
Approx. Full Weight	1.7 kg	3.3 kg	4.9 kg	6.3 kg	9.3 kg	12.7 kg
Working Temperature Range	-20°C to + 60°C					
Working Pressure	12 bar					
Test Pressure	25 bar					
Burst Pressure	Exceeds 69 bar					
Approx. Discharge Range	2 m - 3 m	2 m - 4 m	5 m - 6 m	5 m	6 m - 7 m	6 m - 7.5 m
Approx. Discharge Time	9 sec	12 sec	14 sec	17 sec	17 sec	20 sec
Fire Rating (Min)	5A/21B	8A/34B	13A/55B	13A/70B	27A/144B	27A/144B
Fire Class	A, B, C + Electrical					
Internal Coating	Stoving Epoxy Primer					
Paint Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating					
Mounting	Plastic Bracket			Metal 'L' Wall Bracket		
Manufactured & Certified to	MS 1539 : Part 1 : 2002					

*Wire bracket mounting available upon request

Stored Pressure Type AFF Foam & Wet Chemical Portable Fire Extinguisher



FEATURES

- ✓ Fully deep drawn from cold rolled steel
- ✓ Pressure tested to twice the extinguisher's working pressure
- ✓ Externally coated with polyester powder
- ✓ Internally coated with "performance polymer alloy" to prevent corrosion
- ✓ Passed 480 hours salt spray test
- ✓ Passed the 35KV electrical conductivity test to MS 1539-1, clause 4.7.4



AF-9Ps



EEK-2s



EEK-6s

Model	AF-9PS	EEK-2s***	EEK-6s
Type		Stored Pressure Type	
Extinguishant	AFF Foam (Premix)	Wet Chemical	Wet Chemical
Capacity	9 litres	2 litres	6 litres
Propellant		Nitrogen (N ₂)	
Valve	Controllable Chrome Plated Brass Valve with Pressure Indicator		
Body Diameter	178 mm	108 mm	158 mm
Overall Height**	625 mm	398 mm	575 mm
Approx. Full Weight	13.7 kg	4.6 kg	13.0 kg
Working Temperature Range	+5°C to +60°C	0°C to +60°C	0°C to +60°C
Working Pressure		12 bar	
Test Pressure		25 bar	
Burst Pressure		Exceeds 69 bar	
Approx. Discharge Range	6 m	> 2 m	> 2 m
Approx. Discharge Time	68 sec	14 sec	55 sec
Fire Rating	13A/183B	5A/5F	8A/75F
Fire Class	A, B + Electrical Safety Test*	A, F + Electrical Safety Test*	A, F + Electrical Safety Test*
Internal Lining	Thermoplastic Powder Coating (PPA)		
Paint Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating		
Mounting	Metal 'L' Wall Bracket		
Manufactured & Certified to	MS 1539 : Part 1 : 2002	MS 1539 : Part 5 : 2014	MS 1539 : Part 5 : 2014

*Safe in accidental contact with live electrical equipment. Comply with electrical conductivity test to MS 1539-1, clause 4.7.4

**Overall height measured from bottom up to valve handle

***Pending SIRIM approval

Cartridge Operated Type & Stored Pressure Type ABC & Monnex Dry Powder Portable Fire Extinguisher



FEATURES

- ✓ Fully deep drawn from cold rolled steel
- ✓ Externally coated with polyester powder
- ✓ Pressure tested to twice the extinguisher's working pressure
- ✓ Passed 480 hours salt spray test



PES-9

EC-12Mx

Model	PES-9	EC-12Mx
Type	Gas Cartridge Type	Stored Pressure Type
Extinguishant	ABC Dry Powder	Monnex
Capacity		9 kg
Propellant	N/A	Nitrogen (N ₂)
CO ₂ Cartridge	150 g	N/A
Valve	Controllable Chromed Plated Brass Headcap with Safety Relief	Controllable Non Ferrous Valve with Pressure Indicator
Body Diameter	178 mm	188 mm
Overall Height	595mm	695mm
Approx. Full Weight	14.2 kg	14.6 kg
Working Temperature Range		-20°C to +60°C
Working Pressure		12 bar
Test Pressure		25 bar
Burst Pressure		Exceeds 69 bar
Approx. Discharge Range	6 m	7 m
Approx. Discharge Time	18 sec	23 sec
Fire Rating (Min)	27A/144B	233B
Fire Class	A, B, C + Electrical	B, C + Electrical
Internal Coating		Stoving Epoxy Primer
Paint Finishing		RAL 3000 Flame Red Epoxy Polyester Powder Coating
Mounting	Metal 'T' Wall Bracket	Metal 'L' Wall Bracket
Manufactured & Certified to		MS 1539 : Part 1 : 2002

**Stored Pressure Type
Carbon Dioxide Gas Portable Fire Extinguisher**



ECO-5

ECO-11H

Model	ECO-5	ECO-11H
Type	Stored Pressure Type	
Extinguishant	Carbon Dioxide (CO ₂)	
Capacity	2 kg	5 kg
Operating Head / Valve	Controllable Chrome Plated Brass Valve	
Body Diameter	114 mm	138 mm
Overall Height**	510 mm	765 mm
Approx. Full Weight	7.6 kg	14.8 kg
Working Temperature Range	-20°C to +60°C	
Working Pressure	56 Bar	
Test Pressure	250 Bar	
Safety Disc Pressure	180-200 Bar	
Approx. Discharge Range	3 m	3 m
Approx. Discharge Time	12 sec	16 sec
Fire Rating	21B	55B
Fire Class	B + Electrical	
Cylinder Specification	Steel to ISO 9809	
Discharge Assembly	Swivel Horn Assembly	Hose & Horn Assembly
Mounting	Metal 'L' Wall Bracket	
Paint Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Manufactured & Certified to	MS 1539 : Part 1 : 2002	

** overall height measured from bottom up to valve handle

Corrosion Resistant (Stored Pressure Type/Cartridge Operated Type)

ABC & Monnex Dry Powder Portable Fire Extinguishers - Malaysian Standard



Maintenance Tag



CR-EC-6

CR-EC-9

CR-EC-12Mx

CR-PES-9

CR-PES-12Mx

Model	CR-EC-6	CR-EC-9	CR-EC-12Mx	CR-PES-9	CR-PES-12Mx
Type	Stored Pressure Type			Cartridge Operated Type	
Extinguishant	ABC Dry Powder		Monnex	ABC Dry Powder	Monnex
Capacity	6 kg	9 kg	9 kg	9 kg	9 kg
Propellant / CO ₂ Cartridge	Nitrogen (N ₂)			150g	225g
Valve	Controllable Chrome Plated Brass Valve with Pressure Indicator			Controllable Chrome Plated Headcap with Safety Relief Valve	
Body Diameter	158 mm	178 mm	188 mm	178 mm	188 mm
Overall Height	525 mm	590 mm	695 mm	595 mm	710 mm
Approx Full Weight	9.3 kg	12.7 kg	14.6 kg	14.5 kg	16.4 kg
Working Temperature Range	-20°C to + 60°C				
Working Pressure	12 bar				
Test Pressure	25 bar				
Burst Pressure	Exceeds 69 bar				
Approx Discharge Range	6 m - 7 m	6 m - 7.5 m	7 m	6 m	7 m
Approx Discharge Time	17 sec	20 sec	23 sec	18 sec	21 sec
Fire Rating	27A:144B	27A:144B	233B	27A:144B	233B
Fire Class	A, B, C + Electrical		B, C + Electrical	A, B, C + Electrical	B, C + Electrical
External Coating	Epoxy Marine Paint System Over Sandblasted Surface (RAL 3000) Flame Red				
Mounting	Galvanized Painted Red Metal 'L' Wall Bracket			Galvanized Painted Red Metal 'T' Wall Bracket	
Maintenance Tag	Aluminium Alloy				
Manufactured & Certified to	MS 1539				

Corrosion Resistant (Stored Pressure Type)

AFF Foam, Wet Chemical & CO₂ Portable Fire Extinguishers - Malaysian Standard



Maintenance Tag



CR-AF-9Ps

CR-EEK-6s

CR-ECO-5

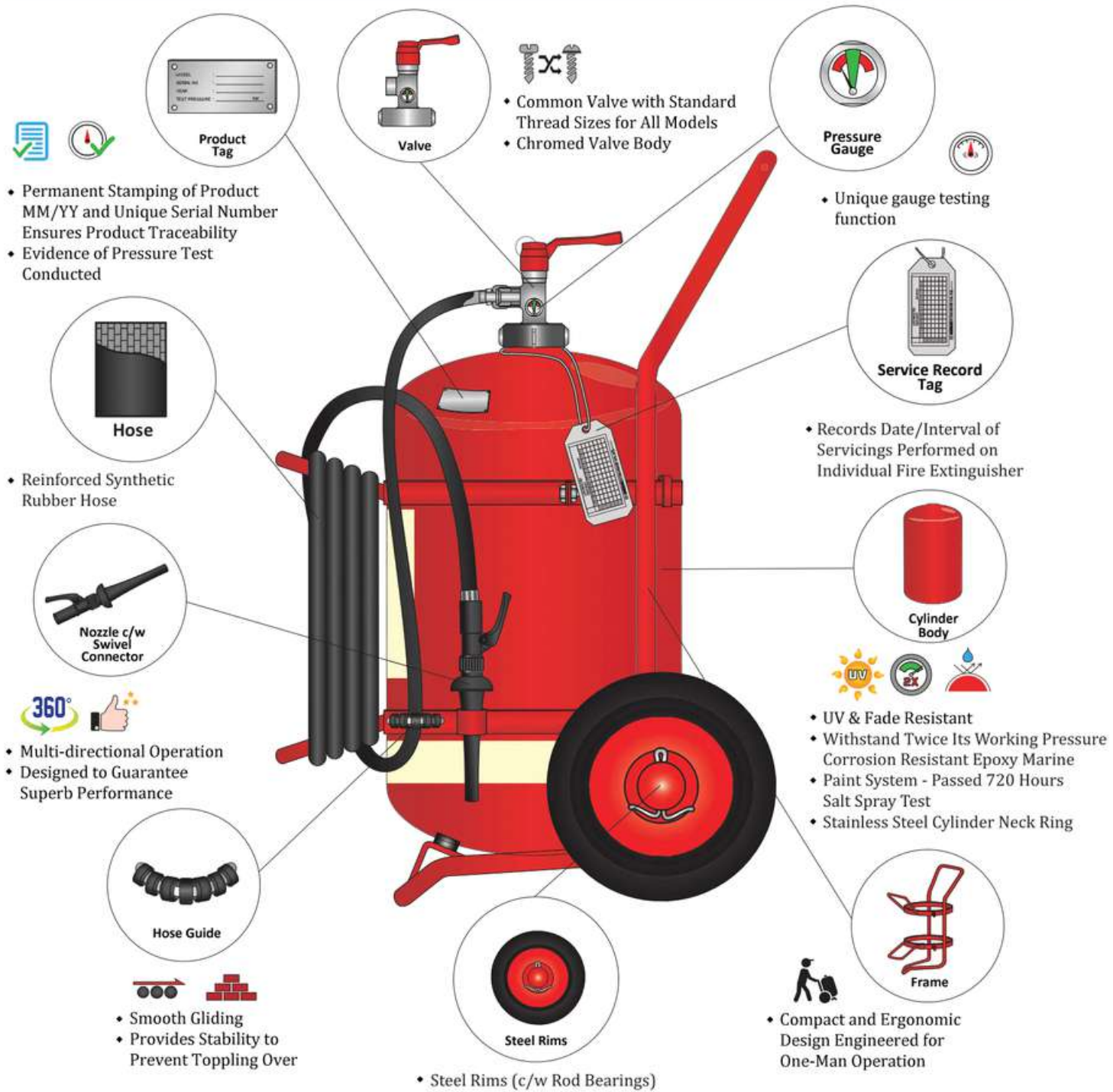
CR-ECO-11HH

Model	CR-AF-9Ps	CR-EEK-6s	CR-ECO-5	CR-ECO-11HH
Type	Stored Pressure Type			
Extinguishant	Premix Foam (AFFF)	Wet Chemical	Carbon Dioxide	
Capacity	9 litres	6 litres	2 kg	5 kg
Propellant	Nitrogen (N ₂)		Carbon Dioxide	
Valve	Controllable Chrome Plated Brass Valve with Pressure Indicator		Controllable Chrome Plated Brass Valve with Bursting Disc	
Body Diameter	178 mm	158 mm	114 mm	138 mm
Overall Height	625 mm	575 mm	510 mm	765 mm
Approx Full Weight	13.9 kg	13.1 kg	7.6 kg	14.8 kg
Working Temperature Range	+ 5°C to + 60°C	0°C to + 60°C	- 20°C to + 60°C	
Working Pressure	12 bar		56 bar	
Test Pressure	25 bar		250 bar	
Burst Pressure	Exceeds 69 bar		N/A	
Safety Disc Burst Pressure	N/A		202.5 - 247.5 bar	
Cylinder Specifications	MS 1539		Steel to ISO 9809	
Discharge Nozzle	Branch Pipe	Spray	Swivel Horn Assembly	Hose & Horn Assembly
Approx Discharge Range	6 m	> 2 m	3 m	
Approx Discharge Time	68 sec	55 sec	18 sec	22 sec
Fire Rating	13A:183B	8A:75F	21B	55B
Fire Class	A + B	A, F + Electrical Safety Test*	B + Electrical	
Internal Lining	Thermosplastic Powder Coating (PPA)		N/A	
External Coating	Epoxy Marine Paint System Over Sandblasted Surface (RAL 3000) Flame Red			
Mounting	Galvanized Painted Red Metal 'L' Wall Bracket			
Maintenance Tag	Aluminium Alloy			
Manufactured & Certified to	MS 1539			

*Safe if in accidental contact with live electrical equipment. Comply with electrical conductivity test MS 1539, Clause 4.7.4

Corrosion Resistant (Stored Pressure Type)

Mobile Fire Extinguisher



OPTIONAL ACCESSORIES

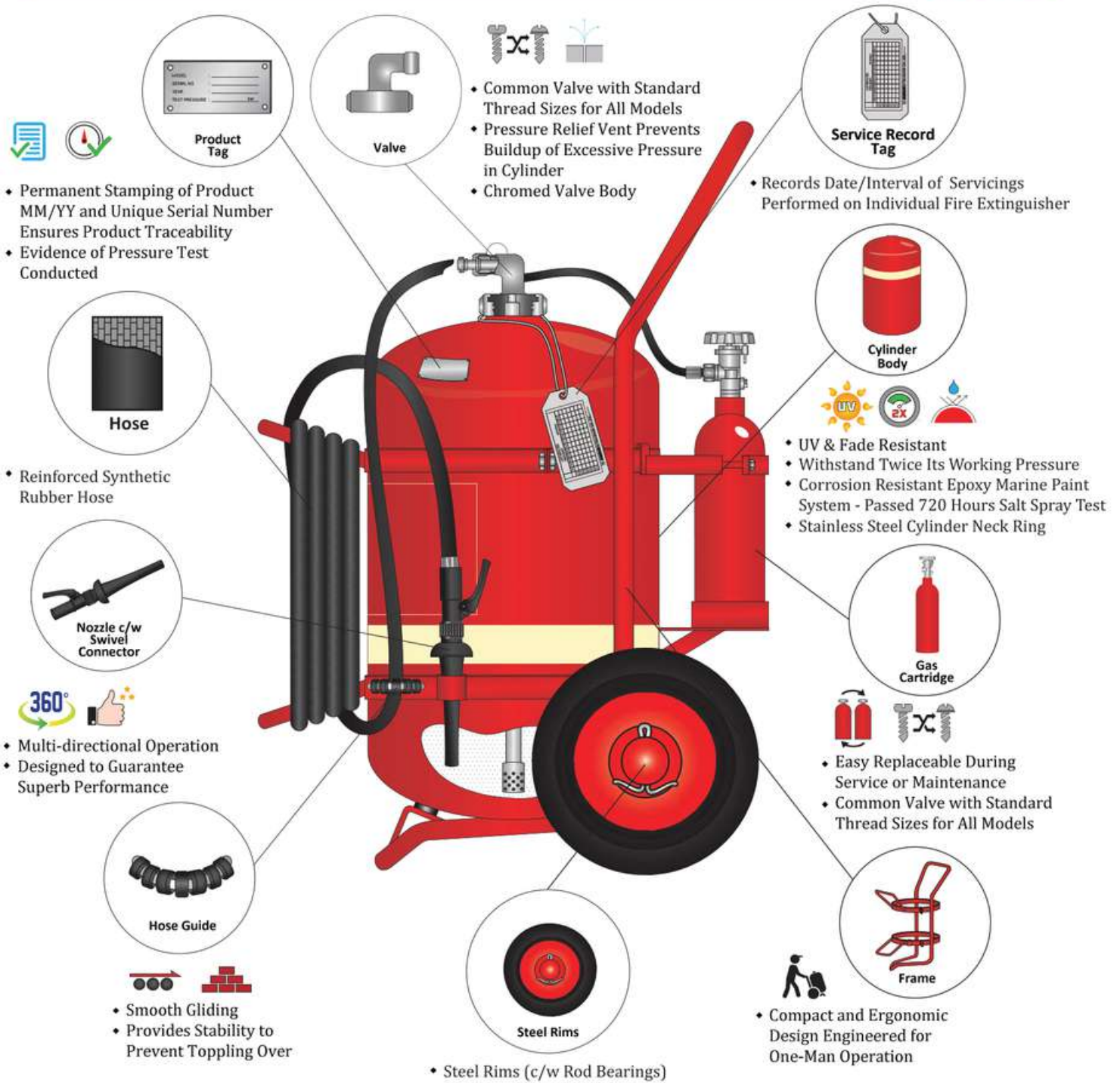


Prevents Kinking Around Bent Corners



Protects Fire Extinguisher from Exposure to Extreme Environment eg. Sunlight, Seawater and etc

**Corrosion Resistant (Cartridge Operated Type)
Mobile Fire Extinguisher**



OPTIONAL ACCESSORIES



Prevents Kinking Around Bent Corners



Protects Fire Extinguisher from Exposure to Extreme Environment eg. Sunlight, Seawater and etc

**Corrosion Resistant (Cartridge Operated Type & Stored Pressure Type)
ABC, Monnex Dry Powder & AFF Foam Mobile Fire Extinguishers**



Maintenance Tag



CR-TPG-50Mx

CR-TPG-75Mx

CR-MPM-50Mx

CR-MPM-75Mx

CR-MFM-150

Model	CR-TPG-50Mx	CR-TPG-75Mx	CR-MPM-50Mx	CR-MPM-75Mx	CR-MFM-150
Type	Gas Cartridge Type			Stored Pressure Type	
Extinguishant	Monnex Powder				AFF Foam (Premix)
Capacity	42 kg	63 kg	50 kg	63 kg	150 Litres
Propellant	N/A			Nitrogen (N ₂)	
Valve	Brass Headcap with Safety Relief Valve			Brass Valve with Pressure Gauge	
CO ₂ Cartridge	1 kg	2 kg	N/A		
Discharge Hose	16 mm x 6 m*	19 mm x 6 m*	19 mm x 6 m*	19 mm x 6 m*	19 mm x 6 m*
Wheel Diameter	330 mm	406 mm	406 mm	406 mm	406 mm
Frame Work	Steel Pipe / Flat Bar				
Cylinder Material	Steel				
Body Diameter	314 mm	356 mm	386 mm	386 mm	454 mm
Overall Height	970 mm	1145 mm	1110 mm	1110 mm	1450 mm
Width	475 mm	570 mm	570 mm	570 mm	685 mm
Depth	565 mm	645 mm	720 mm	720 mm	930 mm
Approx Empty Weight	54 kg	82 kg	55 kg	55 kg	113 kg
Approx Full Weight	96 kg	145 kg	105 kg	118 kg	263 kg
Working Temperature	-20°C to +60°C				
Working Pressure	12 bar				
Test Pressure	22.5 bar			21.5 bar	
Safety Valve Lift Pressure	18 - 20 bar			17 - 21 bar	
Approx Discharge Time	50 sec	60 sec	55 sec	70 sec	300 sec
Approx Discharge Range	11 m	12 m	12 m	12 m	11-13 m
Fire Rating	IIIB C	IVB C	IVB C	IVB C	A IVB
Fire Class	B, C + Electrical				A, B
External Coating	Epoxy Marine Paint System Over Sandblasted Surface (RAL 3000) Flame Red				
Maintenance Tag	Aluminium Alloy				
Designed & Manufactured to	ASME Section VIII Division 1 : 2001 Upto and Including Addenda 2003			BS EN 1866	

*Various hose length available upon request

**Corrosion Resistant (Stored Pressure Type / Cartridge Operated Type)
ABC Dry Powder Mobile Fire Extinguishers - Kitemark**



KM 544838



Maintenance Tag



Top View



Back View



CR-MPM-25

CR-MPM-50

CR-MPG-25

CR-MPG-50

Model	CR-MPM-25	CR-MPM-50	CR-MPG-25	CR-MPG-50
Type	Stored Pressure Type		Gas Cartridge Type	
Extinguishant**	ABC Dry Powder			
Capacity***	25 kg	50 kg	25 kg	50 kg
Propellant	Nitrogen (N ₂)		Carbon Dioxide (CO ₂)	
Valve / Headcap	Brass Valve with Pressure Gauge		Brass Headcap with Safety Relief Valve	
CO ₂ Cartridge	N/A		0.55 kg	1 kg
Discharge Hose	13 mm x 6 m	16 mm x 6 m	13 mm x 6 m	16 mm x 6 m*
Wheel Diameter	300 mm			
Cylinder Material	Steel			
Body Diameter	250 mm	386 mm	250 mm	386 mm
Overall Height	895 mm	975 mm	895 mm	975 mm
Overall Width	460 mm	570 mm	460 mm	570 mm
Overall Depth	550 mm	730 mm	550 mm	730 mm
Approx Empty Weight	22 kg	39 kg	28 kg	43 kg
Approx Full Weight	47 kg	89 kg	53 kg	93 kg
Working Temperature Range	- 20°C to + 60°C			
Working Pressure	12 bar			
Test Pressure	21.5 bar			
Safety Valve Lift Pressure	17 - 21 bar		18 - 20 bar	
Approx Discharge Time	48 sec	61 sec	52 sec	71 sec
Approx Discharge Range	9 m	10 m	9 m	11 m
Fire Rating	A I B C	A I B C	A I B C	A I B C
Fire Class	A, B, C + Electrical			
External Coating	Epoxy Marine Paint System Over Sandblasted Surface (RAL 3000) Flame Red			
Maintenance Tag	Aluminium Alloy			
Manufactured & Certified to	BS EN 1866			

*10 meter hose length available upon request

**Other type of extinguishant e.g. Monnex Powder available upon request

***Other capacities available upon request

Corrosion Resistant (Stored Pressure Type)
AFF Foam Mobile Fire Extinguishers - Kitemark



KM 544838



Maintenance Tag



CR-MFM-45



CR-MFM-135

Model	CR-MFM-45	CR-MFM-135
Type	Stored Pressure Type	
Extinguishant	AFF Foam (Premix)	
Capacity**	45 litres	135 litres
Propellant	Nitrogen (N ₂)	
Valve / Headcap	Brass Valve with Pressure Gauge	
CO ₂ Cartridge	N/A	
Discharge Hose	16 mm x 6 m	19 mm x 6 m
Wheel Diameter	300 mm	350 mm
Frame Work	Steel Pipe / Flat Bar	
Cylinder Material	Steel	
Body Diameter	386 mm	454 mm
Overall Height	980 mm	1395 mm
Overall Width	565 mm	685 mm
Overall Depth	670 mm	930 mm
Approx Empty Weight	46 kg	101 kg
Approx Full Weight	91 kg	236 kg
Working Temperature Range	+ 5°C to + 60°C	
Working Pressure	12 bar	
Test Pressure	21.5 bar	22.5 bar
Safety Valve Lift Pressure	17 - 21 bar	
Approx Discharge Time	109 sec	206 sec
Approx Discharge Range	10 - 12 m	11 - 13 m
Fire Rating	A IIIB	A IVB
Fire Class	A, B	
Internal Lining	High Build Epoxy Tank Coating	
External Coating	Epoxy Marine Paint System Over Sandblasted Surface (RAL 3000) Flame Red	
Maintenance Tag	Aluminium Alloy	
Manufactured & Certified to	BS EN 1866	

*20 meter hose length available upon request

**Other capacities available upon request

Corrosion Resistant (Cartridge Operated Type)
AFF Foam Mobile Fire Extinguishers - Kitemark



KM 544838



Maintenance Tag



Top View



Back View



CR-MFG-45



CR-MFG-135



CR-MFG-150

Model	CR-MFG-45	CR-MFG-135	CR-MFG-150
Type		Gas Cartridge Type	
Extinguishant		AFF Foam (Premix)	
Capacity**	45 litres	135 litres	150 litres
Propellant		Carbon Dioxide (CO ₂)	
Valve / Headcap		Brass Headcap with Safety Relief Valve	
CO ₂ Cartridge	1 kg	2 kg	2 kg
Discharge Hose	16 mm x 6 m*	19 mm x 6 m*	19 mm x 6 m
Wheel Diameter	300 mm	350 mm	350 mm
Frame Work		Steel Pipe / Flat Bar	
Cylinder Material		Steel	
Body Diameter	386 mm	454 mm	454 mm
Overall Height	980 mm	1395 mm	1450 mm
Overall Width	565 mm	685 mm	685 mm
Overall Depth	670 mm	930 mm	930 mm
Approx Empty Weight	52 kg	108 kg	118 kg
Approx Full Weight	97 kg	243 kg	268 kg
Working Temperature Range		+ 5°C to + 60°C	
Working Pressure		12 bar	
Test Pressure	21.5 bar	22.5 bar	22.5 bar
Safety Valve Lift Pressure		18 - 20 bar	
Approx Discharge Time	162 sec	282 sec	368 sec
Approx Discharge Range	10 - 12 m	11 - 13 m	11 - 13 m
Fire Rating	A IIIB	A IVB	A IVB
Fire Class		A, B	
Internal Lining		High Build Epoxy Tank Coating	
External Coating		Epoxy Marine Paint System Over Sandblasted Surface (RAL 3000) Flame Red	
Maintenance Tag		Aluminium Alloy	
Manufactured & Certified to		BS EN 1866	

*20 meter hose length available upon request

**Other capacities available upon request

Corrosion Resistant (Stored Pressure Type)
Carbon Dioxide Mobile Fire Extinguishers - Kitemark



KM 544838



Maintenance Tag



CR-MCO-10

CR-MCO-20 / CR-MCO-25

CR-MCO-10T

CR-MCO-25T

Model	CR-MCO-10	CR-MCO-20	CR-MCO-25	CR-MCO-10T	CR-MCO-25T
Capacity**	10 kg	20 kg	25 kg	10 kg x 2	25 kg x 2
Style	Single			Twin	
Extinguishant	Carbon Dioxide (CO ₂)				
Operating Head	Pai Mark (TPED) Brass Screw Down Valve with Safety Burst Disc				
Cylinder Thread	25E				
Discharge Hose	High Pressure Hose				
Hose Internal Diameter x Length	9.5 mm x 6 m*				
Discharge Horn	Plastic with On / Off Valve				
Cylinder Specification	EN ISO 9809-1	EN 1964 Part 1 TPED		EN ISO 9809-1	EN 1964 Part 1 TPED
- Diameter	156 mm	229 mm	229 mm	156 mm	229 mm
- Nominal Height	990 mm	1210 mm	1210 mm	990 mm	1210 mm
Frame Work	Steel pipe / Flat Bar				
Overall Height	1065 mm	1210 mm	1210 mm	1040 mm	1210 mm
Overall Width	465 mm	565 mm	565 mm	515 mm	800 mm
Overall Depth	860 mm	1260 mm	1260 mm	1050 mm	1260 mm
Approx Empty Weight	33 kg	80 kg	80 kg	50 kg	123 kg
Approx Full Weight	43 kg	100 kg	105 kg	70 kg	173 kg
External Coating	Epoxy Marine Paint System Over Sanblasted Surface (RAL 3000) Flame Red				
Wheel Diameter	300 mm				
Working Temperature Range	- 20°C to + 60°C				
Working Pressure	56 bar				
Cylinder Test Pressure	250 bar				
Approx Discharge Time	53 sec	61 sec	65 sec	83 sec	97 sec
Approx Discharge Range	4 m	4 m	4 m	4 m	4 m
Fire Rating	70B	89B	89B	89B	183B
Fire Class	B + Electrical				
Maintenance Tag	Aluminium Alloy				
Designed & Manufactured to	BS EN 1866	BS EN 1866	Factory Tested	BS EN 1866	Factory Tested

*30 meter hose length available upon request

**Other capacities available upon request

Ai-LITH Lithium-Ion Fire Extinguisher



Ai-LITH Lithium-Ion Fire Extinguisher

Ai-LITH

SB LITHIUM + PLUS 1500



2 KG

6 KG

9 KG

Extinguisher	Ai-LITH 2 KG	Ai-LITH 6 KG	Ai-LITH 9 KG
Brim Full Capacity / ml	2,520	7,780	11,325
Fill Volume / ml	2,000	6,000	9,000
Approx. Weight Agent / kg	2.2	6.6	9.9
Approx. weight of Unit / kg	3.9	10.7	15.0
Cylinder Ø / mm	110	170	170
Cylinder Height / mm	380	522	664
Unit Height / mm	410	530	672
Fire Rating	5A	13A	13A
EN3 Certified	Yes	Yes	Yes
MED Approved	Yes	Yes	Yes
Propellant	Nitrogen (HeTracer)	Nitrogen (HeTracer)	Nitrogen (HeTracer)
Operating Pressure / bar	15	15	15
Operating Temperature	+5°C to +60°C	+5°C to +60°C	+5°C to +60°C
Approx. Discharge Time / s	50	120	180
Discharge Range / m	1.5 - 2.0	1.5 - 2.0	1.5 - 2.0

Are you prepared for a **lithium-ion battery fire**?



Domestic



Automotive



Industrial

SB LITHIUM +PLUS 1500

EXPLANATION

SB LITHIUM + PLUS 1500 , hydrocarbon surfactants, It consists of an effective formulation containing solvents and stabilizers. Effective in lithium-ion batteries and accumulators. It also effectively prevents re-burning. SB LITHIUM + PLUS 1500 is used for strong extinguishing as well as fire prevention.

TECHNICIAL SPECIFICATIONS

Appearance	RED
pH (20 oC)	7.4 ± 0.5
Viscosity (20 oC)	min 1000cP
Density (20 oC)	1.03 ± 0.01 gr/cm ³
Storage temperature	Min-10° C ,Max+60 ° C
Recipitate (20 oC)	< % 0,05
Recommended Use	Direct
Freezing Point	-10°C
Typ 18650	700Wh - 900Wh- 1500Wh

APPLICATION

SB LITHIUM + PLUS 1500 When used with low expansion gel lances, it successfully performs the extinguishing process with the stable gel cover formed.

To be used in fires such as lithium batteries and car batteries, a successful extinguishing process can be performed at 6 bar pressure and with direct precision application/ forced application methods.

COMPATIBILITY

SB LITHIUM + PLUS 1500 compatible with the following;

- Use with dry powder extinguishers
- Using with different types of fire extinguisher foams

SB LITHIUM + PLUS 1500 If it is thawed after freezing, there will be no change in its performance.

STANDARDS

National and international standards;
EN 1568: 2018
TSE EN 1568:2018
ISO 9001:2015
CE DECLARATION OF CONFORMITY

PERFORMANCE

SB LITHIUM + PLUS 1500 has a very effective extinguishing performance for indoor and outdoor lithium-ion batteries and battery fires, and its adhesion to vertical surfaces is very successful. At the same time, it has a high fire cooling feature thanks to the chemicals it contains. Compared to other lithium battery extinguishers, SB LITHIUM + PLUS 1500 provides faster extinguishing, but has a very high fire-back resistance level and a stable performance.

STORAGE

SB LITHIUM + PLUS 1500 has an extremely stable structure.

It should be kept in its original package without opening.

If long-term exposure to high temperatures is prevented, its shelf life is 4 years.

EV Car Fire Blanket



CAR FIRE BLANKET

INTRODUCTION

The simple but most effectively way to smother or suppress flames by cutting off the fire's oxygen supply and prevent the spread of EV car fires. Able to contain the flames, smoke, and toxic fumes in a car fire in seconds and extinguish it in minutes.

PROPERTIES

- Flame retardant pull tape**
 The design of four flame-retardant pull straps is more convenient and quicker, and the operation at the accident site is more safe.
- Silicone Coating**
 High temperature resistance, waterproof more sealing, softer feel, wear-resistant.
- Fireproof Wire**
 Use High-quality fireproof wire, which made from Kevlar fiber

SPECIFICATIONS

Category	Description
Product Name	Car Fire Blanket
Material	100% Fiberglass Material
Coating	Silicone Coated on Both Sides
Size	6*8M, 6*9M, Customized
Thickness	0.45mm
Weight/sqm	480g/sqm (+/-20g)
Heat Resistance Temperature	Stand at 550° C Temporarily 1000° C
Testing Standard	EN 13501-1:2018 by SGS BS EN1869:2019 BY SGS
Certificate	ISO9001:2015 (Company) CE EN1869:1997 (Fire Blankets)
Packing	Soft Packing Bag (Customize) with Carton Box(60*34*28CM)
Weight Include Packing	25 KG Weight valid from difference size

WHERE TO USE?

- Gas Station
- Parking Lot
- Fire Brigade
- Pure Car Carrier



CAR FIRE BLANKET

Material

100% Fiberglass with double side silicon coating

Fast Effective

Extinguishes fire in minutes, isolates fire in seconds

Eco-friendly

No toxic fumes or liquids, even works on electric cars

Features

- Designed for electric vehicle fires
- Handling loops on all corner
- Fire resistant technical fabrics
- Fire resistant industrial stitching
- Fire resistant re-enforced multi-layered edge lining

Heat resistant
800°C - 1100°C



Optional

- Waterproof Bag



- Fire Blanket Case



How it works

Easily drag the Car Fire Blanket over a blazing vehicle to swiftly contain both flames and fume. In electric vehicles, lithium batteries can sustain combustion even without oxygen. For transporting EVs on a tow truck, it's advised to keep the fire blanket securely tied at tire level using a rope or load strap.

Water-Based Extinguisher	Can stop fire from spreading, but risk of re-ignition	
Car Fire Blanket	Silicone coating seals better and quickly isolates air	
Aerosol Fire Extinguisher	There is a possibility of resurgence	

AITO Fire Blanket



FIRE BLANKET & SMOKE CURTAIN

Fire Blanket



TECHNICAL DATA

Part No.	Size(mm)	Material	Colour	Coating Finish	Operating Temperature
FB-4x4	1200 x 1200 (4' x 4')	Woven Fibreglass Fabric	White	Loomstate	Basic Fabric 600°C
FB-4x6	1200 x 1800 (4' x 6')				
FB-6x6	1800 x 1800 (6' x 6')				

Smoke Curtain



TECHNICAL DATA

Part No.	FC
Material	Woven Fibreglass Fabric
Colour	White
Coating Finish	Loomstate
Operating Temperature	Basic Fabric 600°C
Temperature Standard	BS 476 : Part 7

CO2 FIRE EXTINGUISHING SYSTEM





45 kg CO₂ Seamless Cylinder

Cylinder Type	Seamless	
Volume	68 litres	
CO ₂ Capacity	45 kg	
Test Pressure	250 bar	
Working Pressure @ 20°C	56 bar	
Material	34Mn or 37Mn	
Approvals	DOT-3AA	ISO 9809



Pilot Cylinder

Cylinder Volume	3 Litre
Medium	Nitrogen
Working Pressure @ 20°C	50 bar
Burst Disc Pressure	60 - 70 bar
Solenoid Valve Pressure	0 - 90 bar
Solenoid Valve Voltage	24V DC
Approvals	Factory Manufacturing Standard



Quick Release Valve

Model	EE-209	EE-208
Thread Size	1" BS 341	W 28.8 x 1/14"
Test Pressure	250 bar	
Material	Brass	



Solenoid Actuator

Type	Direct Acting
Size	1/4"
Control Mode	Normally Close
Voltage	24V DC
Working Pressure	0 - 90 bar
Material	Brass
Approvals	Factory Manufacturing Standard



Pilot T-Connection

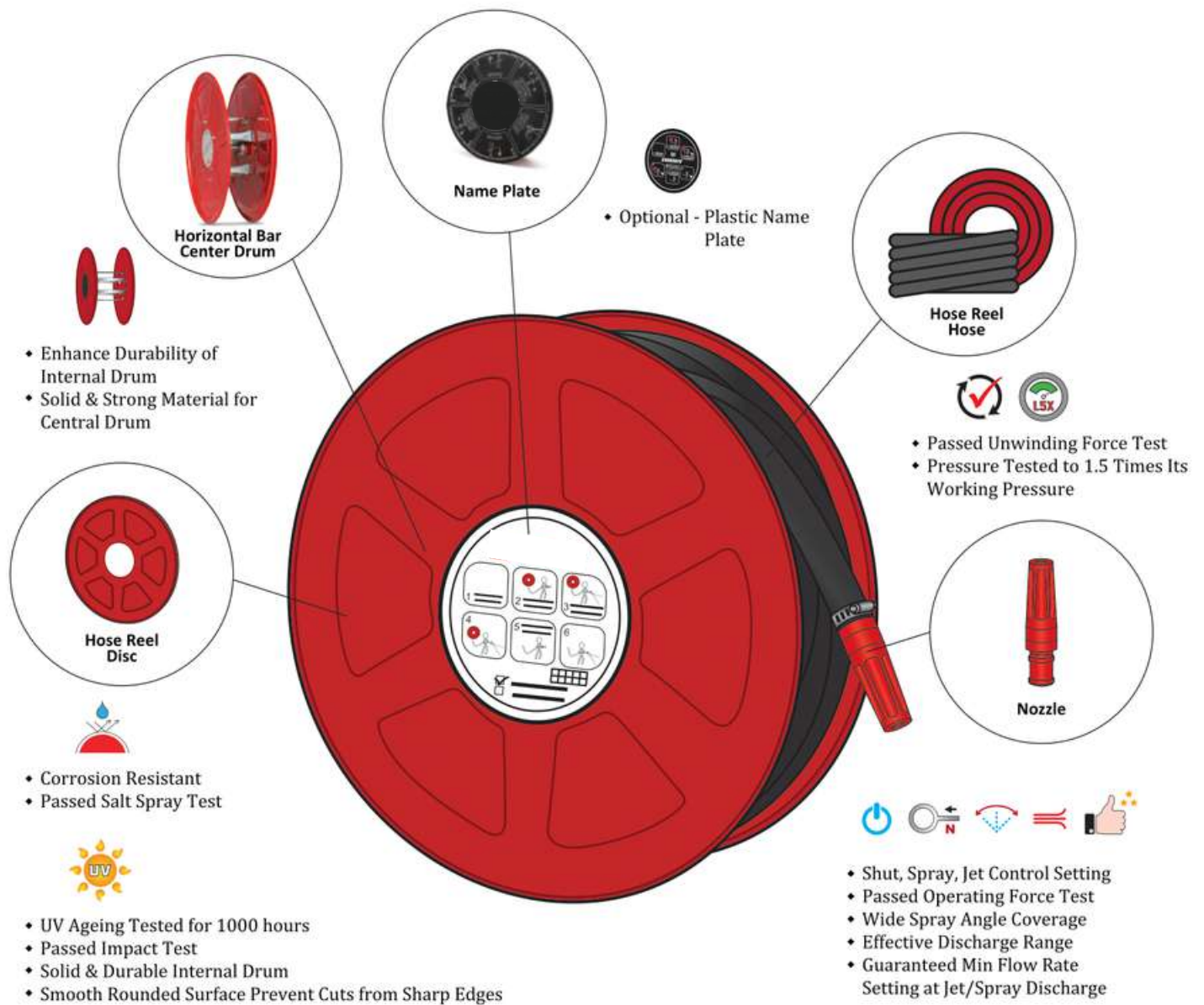
Application	100 th Slave CO ₂ Cylinder
Connection	Ø 21.7 x 14 G
Material	Hydraulic Steel
Finishing	Rainbow Chromed
Approvals	Factory Manufacturing Standard

FIRE HOSE REELS



Fire Hose Reels

Manual/Automatic Swing Type Fire Hose Reels - HB Version



HOSE REEL ARM TYPES



Die Cast Swing Arm



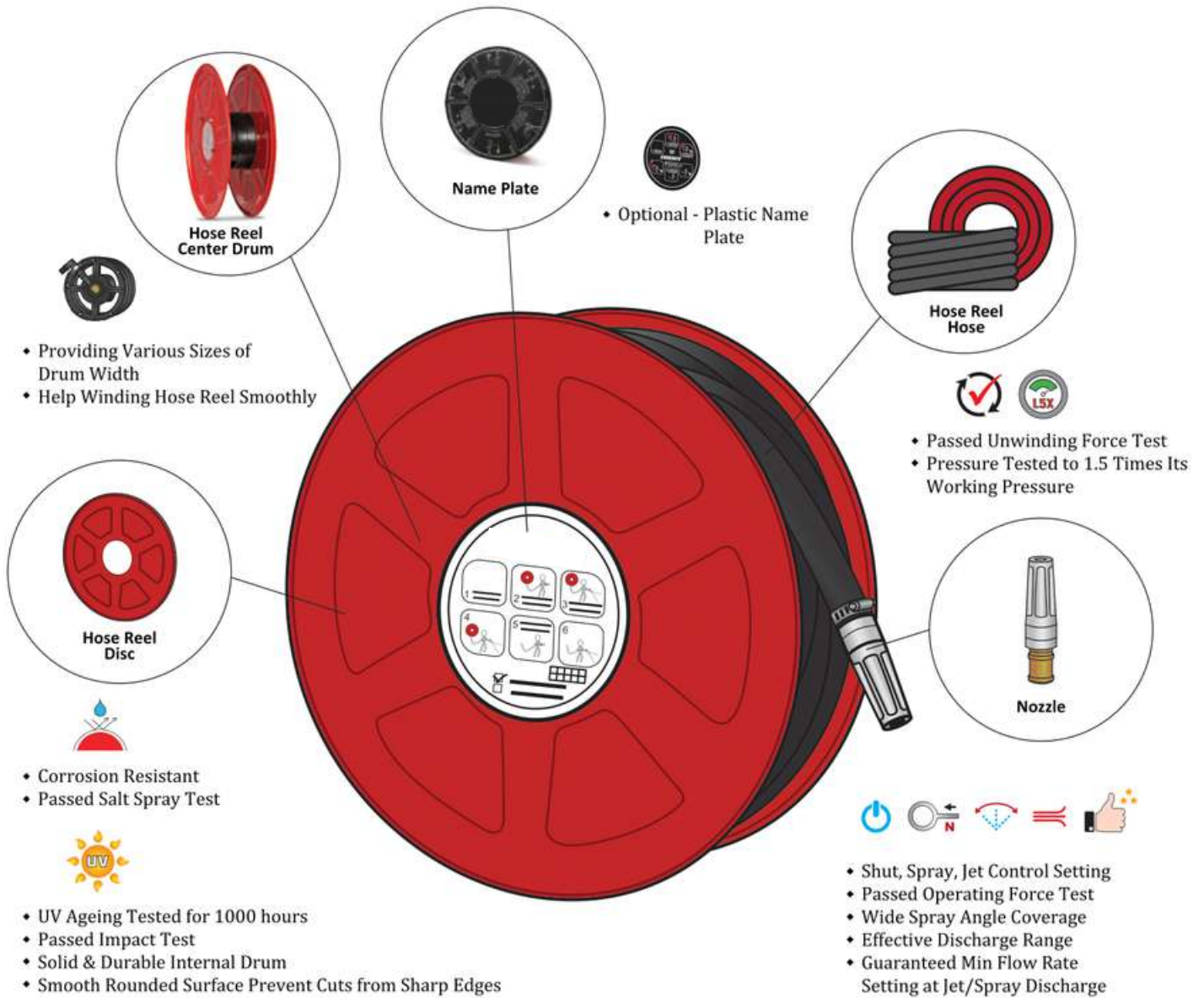
Manual/Automatic Hose Inlet Swing Arm



Fixed Pipe

Fire Hose Reels

Manual/Automatic Swing Type Fire Hose Reels - CD Version



HOSE REEL ARM TYPES



Die Cast Swing Arm



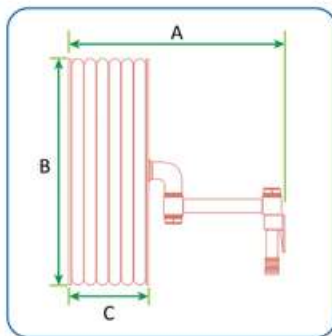
Manual/Automatic Hose Inlet Swing Arm



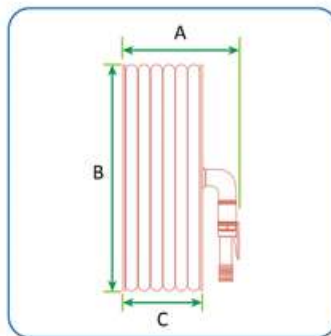
Fixed Pipe

Fire Hose Reels

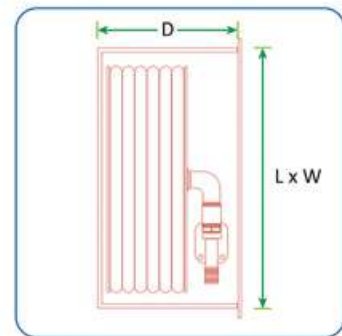
Manual Swing Type Fire Hose Reels - Die Cast



SWING



CLOSE



RECESS

Manual Swing Type Fire Hose Reels - Die Cast

Model	EH19-SDM-09GI*	EH25-SDM-09GI**	EH25-SDM-12GI***
Disc Diameter	565 mm	565 mm	565 mm
Inlet Connection	Die Cast Swing Arm 1" BSP		
Hose Size (Ø x Length)	19 mm x 30 m	25 mm x 30 m	25 mm x 30 m
Swing Dimension (A x B x C)	495 mm x 565 mm x 160 mm	525 mm x 565 mm x 190 mm	525 mm x 565 mm x 190 mm
Close Dimension (A x B x C)	250 mm x 565 mm x 160 mm	280 mm x 565 mm x 190 mm	280 mm x 565 mm x 190 mm
Recess Dimension (L x W x D)	700 mm x 700 mm x 290 mm	760 mm x 760 mm x 320 mm	760 mm x 760 mm x 320 mm
Maximum Working / Test Pressure	12 bar / 18 bar	12 bar / 18 bar	12 bar / 18 bar
Standard Nozzle Type	Brass or Nylon Jet / Spray Nozzle		
Nozzle Orifice	6 mm	7 mm	7 mm
Minimum Flow Rate @ 4 bar	34 L / min	44 L / min	44 L / min
Drum Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating		
Manufactured & Certified to	EN 671-1 : 2012	MS 1447-1 : 2006	EN 671-1 : 2012

* TUV SUD PSB Approved only

** SIRIM and Bomba Approved only

*** CE or TUV SUD PSB Approved only

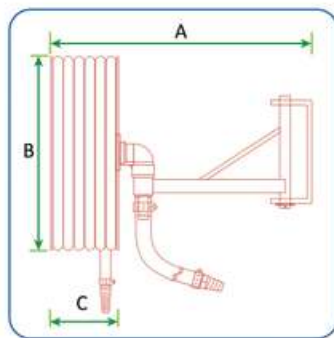
Note: 1. Various types of nozzle and hose length available upon request. Please refer to nozzle section for selection of nozzle

2. Horizontal bar hose reel available upon request

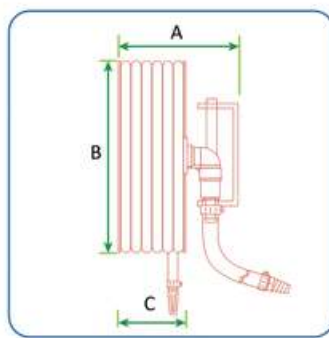
3. Ø 590mm disc available upon request

Fire Hose Reels

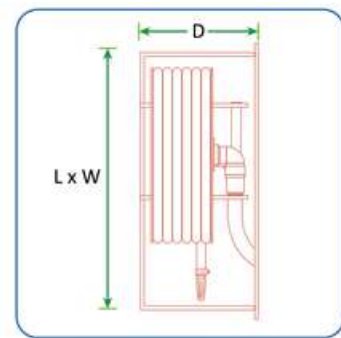
Manual Swing Type Fire Hose Reels - Hose Inlet



SWING



CLOSE



RECESS

Manual Swing Type Fire Hose Reels - Hose Inlet

Model	EH19-SHM-09BR*	EH25-SHM-09BR*	EH25-SHL-12BR**
Disc Diameter	565 mm	565 mm	590 mm
Inlet Connection	Hose 25 mm x 1 m	Hose 25 mm x 1 m	Hose 25 mm x 1 m
Hose Size (Ø x Length)	19 mm x 30 m	25 mm x 30 m	25 mm x 30 m
Swing Dimension (A x B x C)	525 mm x 565 mm x 160 mm	555 mm x 565 mm x 190 mm	525 mm x 590 mm x 145 mm
Close Dimension (A x B x C)	220 mm x 565 mm x 160 mm	250 mm x 565 mm x 190 mm	210 mm x 590 mm x 145 mm
Recess Dimension (L x W x D)	700 mm x 700 mm x 250 mm	700 mm x 700 mm x 290 mm	730 mm x 730 mm x 225 mm
Maximum Working / Test Pressure	12 bar / 18 bar	12 bar / 18 bar	12 bar / 18 bar
Standard Nozzle Type	Brass or Nylon Jet / Spray Nozzle		
Nozzle Orifice	6 mm	7 mm	7 mm
Minimum Flow Rate @ 4 bar	34 L / min	44 L / min	44 L / min
Drum Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating		
Manufactured & Certified to	EN 671-1 : 2012		

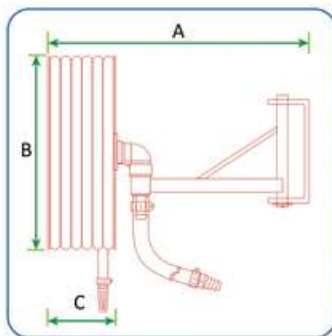
* CE or TUV SUD PSB Approved only

** CE Approved only

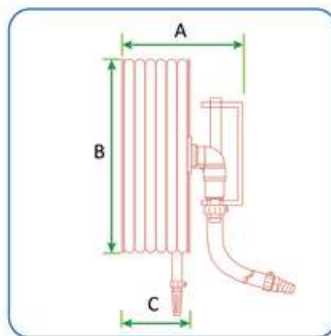
Note: 1. Various types of nozzle and hose length available upon request. Please refer to nozzle section for selection of nozzle
 2. Horizontal bar hose reel available upon request
 3. Ø 590mm disc available upon request

Fire Hose Reels

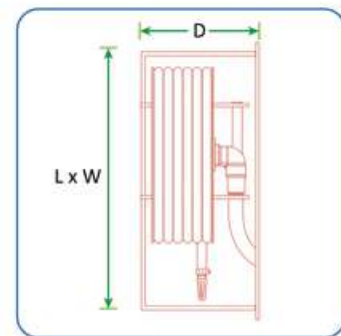
Automatic Swing Type Fire Hose Reels - Hose Inlet



SWING



CLOSE



RECESS

Automatic Swing Type Fire Hose Reels - Hose Inlet

Model	EH19-SAM-09BR*	EH25-SAM-09BR**	EH25-SAL-12BR***
Disc Diameter	565 mm	565 mm	590 mm
Inlet Connection	Hose 25 mm x 1 m	Hose 25 mm x 1 m	Hose 25 mm x 1 m
Hose Size (Ø x Length)	19 mm x 30 m	25 mm x 30 m	25 mm x 30 m
Swing Dimension (A x B x C)	535 mm x 565 mm x 160 mm	565 mm x 565 mm x 190 mm	525 mm x 590 mm x 145 mm
Close Dimension (A x B x C)	235 mm x 565 mm x 160 mm	265 mm x 565 mm x 190 mm	210 mm x 590 mm x 145 mm
Recess Dimension (L x W x D)	700 mm x 700 mm x 250 mm	700 mm x 700 mm x 290 mm	730 mm x 730 mm x 225 mm
Maximum Working / Test Pressure	12 bar / 18 bar		
Standard Nozzle Type	Brass or Nylon Jet / Spray Nozzle		
Nozzle Orifice	6 mm		
Minimum Flow Rate @ 4 bar	34 L / min		
Drum Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating		
Manufactured & Certified to	EN 671-1 : 2012		

* TUV SUD PSB Approved only

** CE or TUV SUD PSB Approved only

*** CE Approved only

Note: 1. Various types of nozzle and hose length available upon request. Please refer to nozzle section for selection of nozzle

2. Horizontal bar hose reel available upon request

3. Ø 590mm disc available upon request

HOSE



Attack Hose - DUZ

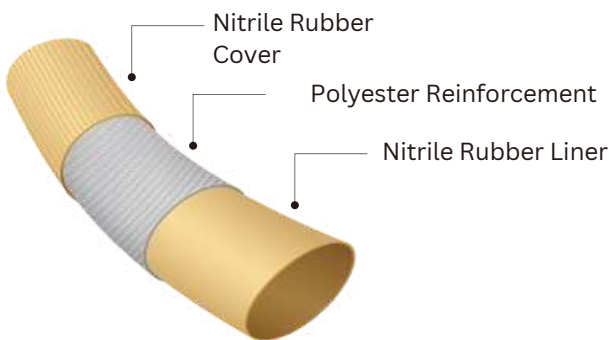
Nitrile Rubber as cover and liner

★ Features

- Ribbed cover with great abrasion resistance, smooth liner for minimum friction loss
- Resistant to weather, UV, oxidation and most chemicals or petroleum products
- Flexible to deploy and roll up, compact coil for storage
- Temperature range from -4°F to 158°F (-20°C to 70°C)
- Applicable to Brass/Alu NST/NPSH threaded couplings, other type on request
- Standard length 50', 100', 200', up to 660'
- Available with customized color, couplings and marking



📦 Construction



🛡️ Standard

- Meets or exceeds UL 19 AND BS 6391
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Average Weight		Wall Thickness		Certification
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm	
1-1/2"	38	250,300	17, 21	750,900	51,63	0.21	0.31	0.083	2.1	UL Certifying in progress
1-3/4"	45	250,300	17, 21	750,900	51,63	0.24	0.36	0.114	2.9	
2"	52	250,300	17, 21	750,900	51,63	0.30	0.45	0.118	3.0	
2-1/2"	65	250,300	17, 21	750,900	51,63	0.39	0.58	0.118	3.0	
3"	75	250,300	17, 21	750,900	51, 63	0.58	0.87	0.118	3.0	
Nominal Size		Working Pressure		Burst Pressure		Average Weight		Wall Thickness		Certification
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm	
1-1/2"	38	218	15	654	45	0.209	0.311	0.083	2.1	
2"	52	218	15	654	45	0.279	0.415	0.114	2.9	
2-1/2"	65	218	15	654	45	0.383	0.570	0.118	3.0	

Attack Hose - FAD

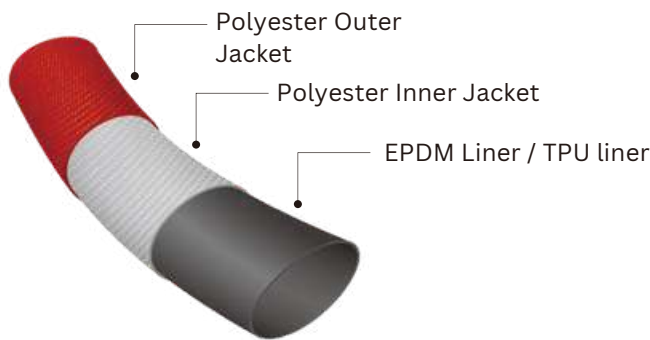
Double Jacket, EPDM Liner or TPU Liner

★ Features

- Polyester double jacket provides outstanding abrasion resistance, EPDM lining has good resistance to ageing and chemicals
- TPU lining is also available which provides lowest friction loss and is less-weighted
- Optional innovative Wisentec™ coating of NFPA colors provides mildew protection and increases resistance to abrasion, heat, flame and petro-chemical
- Remain flexible at the temperature as low as -40°F / -40°C
- Applicable to Brass/Alu NST/NPSH threaded couplings, other type on request
- Standard length 50', 100', 200', other length on request



📦 Construction



🛡️ Standard

- FM 2111 and UL 19 approved
- Meets or exceeds NFPA 1961
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	400	28	800	56	1200	84	
1-3/4"	45	400	28	800	56	1200	84	
2"	52	400	28	800	56	1200	84	
2-1/2"	65	400	28	800	56	1200	84	
3"	75	400	28	800	56	1200	84	
Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	300	21	600	42	900	63	
2-1/2"	65	300	21	600	42	900	63	

Attack Hose - FAS

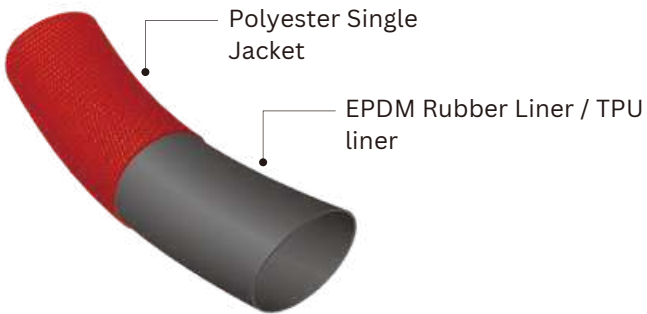
Single Jacket, EPDM Rubber Liner

★ Features

- Single jacket made from 100% high tensile strength Polyester yarns provides good resistance to abrasion, oxidation and UV
- Optional innovative Wisentec™ coating of NFPA colors provides mildew protection and increases resistance to abrasion, heat, flame and petro-chemical
- Remain flexible at the temperature as low as -40°F / -40°C
- Applicable to Brass/Alu NST/NPSH threaded couplings, other type on request
- Standard length 50', 100', 200', other length on request
- TPU lining is also available which provides lowest friction loss and is less-weighted



📦 Construction



🛡️ Standard

- FM 2111 and UL 19 approved
- Meets or exceeds NFPA 1961
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	250, 300	17, 21	500, 600	34, 42	750, 900	51, 63	
1-3/4"	45	250, 300	17, 21	500, 600	34, 42	750, 900	51, 63	
2"	52	250, 300	17, 21	500, 600	34, 42	750, 900	51, 63	
2-1/2"	65	250, 300	17, 21	500, 600	34, 42	750, 900	51, 63	
Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	150, 200	10, 14	300, 400	20, 28	450, 600	30, 42	
2-1/2"	65	200	14	400	28	600	42	

John Morris Couplings



★ Features

- Available on Brass or Aluminum
- Binding to hose with wires

A non-symmetrical quick connection couplings with male and female parts.

These couplings are only suitable for delivery operation. For suction operation round thread couplings are in use.

Nominal Size		Material Type
inch	mm	
1-1/2"	38.1	Aluminum, Brass
2-1/2"	63.5	

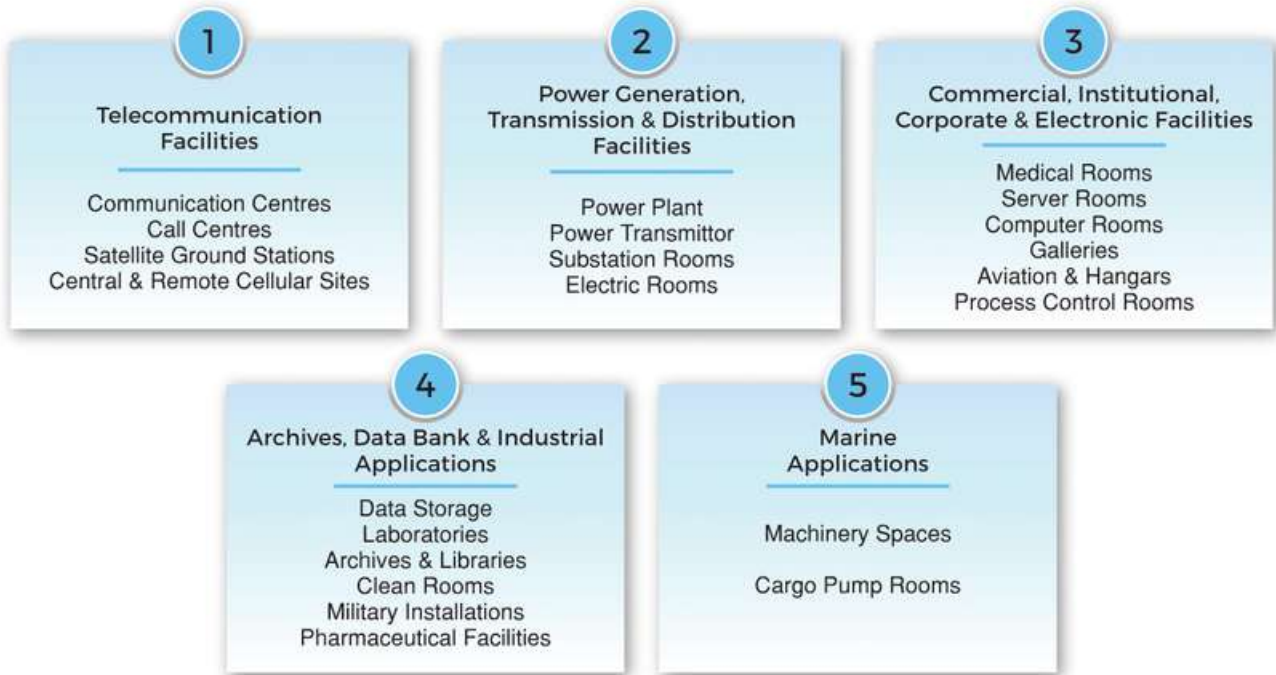


**UL LISTED TOTAL
FLOODING CLEAN
AGENT FORE
EXTINGUISHING
SYSTEMS**

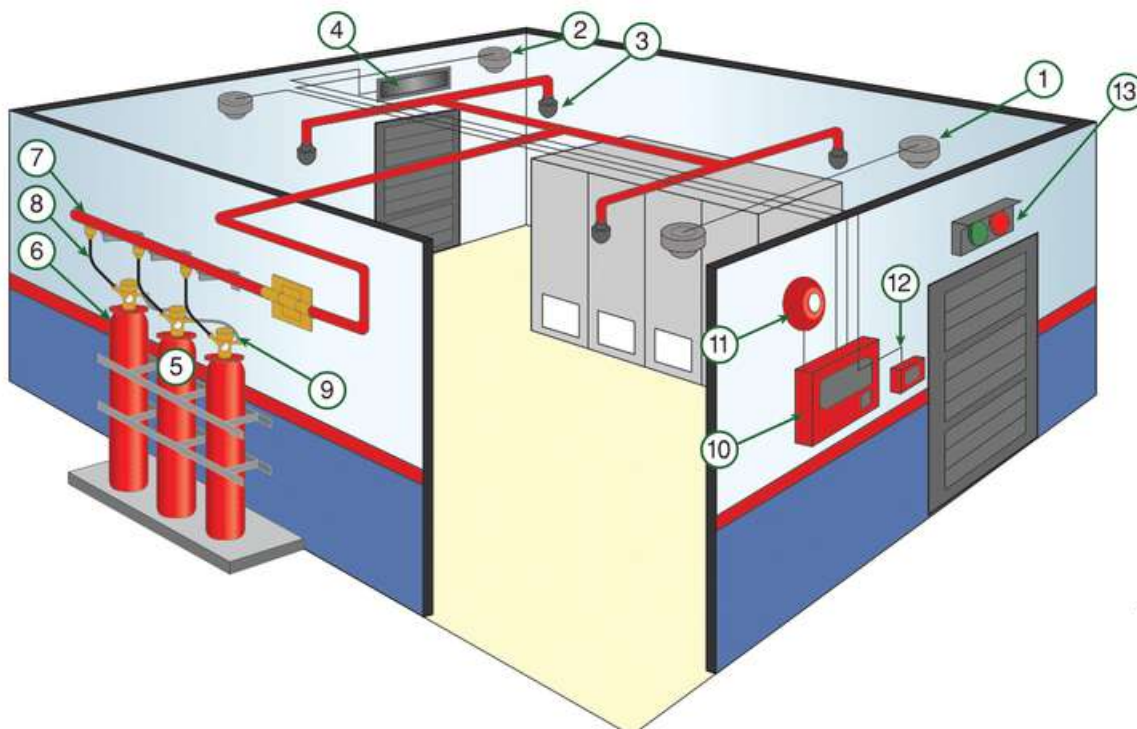


THE NAF S 125® & NAF S 227® SYSTEM APPLICATION

EVERSAFE® NAF S 125® & NAF S 227® Fire Extinguishing Systems are designed with the ability to suppress fire in the shortest time possible, especially in enclosed areas occupied by human. Its clean and zero residue properties makes it the perfect solution to protect areas such as:



GENERAL INSTALLATION OF NAF S 125® & NAF S 227®



General Installation

- 1 Heat Detector
- 2 Smoke Detector
- 3 Discharge Nozzle
- 4 LED Evacuate Sign
- 5 Slave Cylinder
- 6 Master Cylinder
- 7 Manifold
- 8 Discharge Hose
- 9 Actuation Hose
- 10 Fire Control Panel
- 11 Alarm Bell
- 12 Abort Switch/Manual Call Point
- 13 Twin Flashing Light

**Refer to system components for details and informations*



Seamless Steel Cylinder Valve Assembly 42 Bar Systems

Part No. NAF S 125	SH70025410	SH70025409	SH70025408
Part No. NAF S 227	SH70027410	SH70027409	SH70027408
Nominal Cylinder Capacity	5 litre	13.4 litre	26.8 litre
Discharge Valve Type	SHT V20		
Thread Valve	1" - 11.5 NPT		
Working Pressure	42 bar		
Working Temperature	-20°C to 50°C		
Overall Height	615 mm	1250 mm	1000 mm
External Diameter	140 mm	140 mm	229 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating		
Approvals	2010/35/EU TPED, ADR, UL Listed		



Seamless Steel Cylinder Valve Assembly 42 Bar Systems

Part No. NAF S 125	SH70025407	SH70025412
Part No. NAF S 227	SH70027407	SH70027412
Nominal Cylinder Capacity	40.2 litre	67.5 litre
Discharge Valve Type	SHT V25	
Thread Valve	G.1 ½"	
Working Pressure	42 bar	
Working Temperature	-20°C to 50°C	
Overall Height	1370 mm	1625 mm
External Diameter	229 mm	267 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Approvals	2010/35/EU TPED, ADR, UL Listed	



Seamless Steel Cylinder Valve Assembly 42 Bar Systems

Part No. NAF S 125	SH70025405	SH70025403
Part No. NAF S 227	SH70027405	SH70027403
Nominal Cylinder Capacity	75 litre	120 litre
Discharge Valve Type	SHT V40	
Thread Valve	2 ½" - 12UN - 2B	
Working Pressure	42 bar	
Working Temperature	-20°C to 50°C	
Overall Height	1785 mm	1680 mm
External Diameter	267 mm	358 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Approvals	2010/35/EU TPED, ADR, UL Listed	



Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH70025414	SH70025415
Part No. NAF S 227	SH70027414	SH70027415
Nominal Cylinder Capacity	175 litre	240 litre
Discharge Valve Type	SHT V65	
Thread Valve	3 ½" - 12UN - 2A	
Working Pressure	25 bar	
Working Temperature	-20°C to 50°C	
Overall Height	1540 mm	1945 mm
External Diameter	445 mm	445 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Approvals	2010/35/EU TPED, ADR, UL Listed	



Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH72525408
Part No. NAF S 227	SH72527408
Nominal Cylinder Capacity	26.8 litre
Discharge Valve Type	SHT V25
Thread Valve	G ½" A
Working Pressure	25 bar
Working Temperature	-20°C to 50°C
Overall Height	750 mm
External Diameter	350 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	2010/35/EU TPED, ADR, UL Listed



Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH72525407
Part No. NAF S 227	SH72527407
Nominal Cylinder Capacity	40.2 litre
Discharge Valve Type	SHT V40
Thread Valve	2 ½" - 12UN - 2A
Working Pressure	25 bar
Working Temperature	-20°C to 50°C
Overall Height	850 mm
External Diameter	350 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	2010/35/EU TPED, ADR, UL Listed



Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH72525405
Part No. NAF S 227	SH72527405
Nominal Cylinder Capacity	75 litre
Discharge Valve Type	SHT V65
Thread Valve	3 ½" - 12UN - 2A
Working Pressure	25 bar
Working Temperature	-20°C to 50°C
Overall Height	1230 mm
External Diameter	350 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	2010/35/EU TPED, ADR, UL Listed



Welded Cylinder Valve Assembly 25 Bar Systems

Part No. NAF S 125	SH72525403
Part No. NAF S 227	SH72527403
Nominal Cylinder Capacity	120 litre
Discharge Valve Type	SHT V65
Thread Valve	3 ½" - 12UN - 2A
Working Pressure	25 bar
Working Temperature	-20°C to 50°C
Overall Height	1750 mm
External Diameter	350 mm
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating
Approvals	2010/35/EU TPED, ADR, UL Listed

VALVE



Oblique Landing Valve - LPCB Approved

Description

EMACO Oblique Landing Valve is a type of globe pattern hydrant valve. These valves are manufactured to and are suitable for use at nominal inlet pressure up to 15 bars.

Features:

- Working Pressure: 15 Bar / 200 PSI
- Test Pressure: Body 22.5 Bar / 320 PSI Valve Seat 16.5 Bar / 250 PSI
- Size: 2 ½"
- Available Inlet BSP Thread or Flanged as BS 4504 Part 2:1974 Table:16/21, Outlet BS 336 Instantaneous Female

Options

- flanged inlet or screwed inlet

Application

Suitable for fire hydrant systems at Internal or External places on wet risers with permanently charged water from a pressurized supply with water



Oblique Landing Valve – Standard

Description

EMACO Oblique Landing Valve is a type of globe pattern hydrant valve. These valves are manufactured to comply to BS 5041 Part 1 standard with delivery hose connection. These valves are classified under low pressure.

Features

- Working Pressure: 15 Bar / 200 PSI
- Test Pressure: Body 22.5 Bar / 320 PSI Valve Seat 16.5 Bar / 250 PSI
- Size: 2 ½"
- Available Inlet BSP Thread or Flanged as BS 4504 Part 2:1974
- Table:16/21, Outlet BS 336 Instantaneous Female

Options

- flanged inlet or screwed inlet

Application

Suitable for fire hydrant systems at Internal or External places on wet risers with permanently charged water from a pressurized supply with water



Angle Hose Valve – UL Listed



Description

EMACO Angle Hose valve (90 degrees pattern) features all brass construction with forged valve body with red hand wheel for rigidity and light weight. Our UL listed angle hose valves manufactured in accordance with UL 668 Hose Valve for Fire Protection Service standards as body material from ASTM B283 C37700, and hand wheel from Ductile Iron.

Features

- Working Pressure of 300 psi
- Test Pressure of 600 psi
- Size: 1 ½" and 2 ½"
- Available as Threaded FNPT x MNST or FNPT x FNPT

Options

- Finishes - polished brass, royal chrome plated, polished chrome plated

Application

Used with hose rack assembly or as a fire department outlet connection

Angle Hose Valve – Standard



Description

EMACO standard angle hose valves manufactured to meet Requirements of NPFA, EN and ANSI standards as Body Material from brass, and Hand Wheel from Ductile Iron. Our Angle Hose valve (90 degrees pattern) features all brass construction with forged valve body with red hand wheel for rigidity and light weight.

Features:

- Working Pressure of 175 psi
- Test Pressure of 300 psi
- Size: Ø 1½" and 2½"
- Available as Threaded FNPT x MNST or FNPT x FNPT

Options

- Finishes - polished brass, royal chrome plated, polished chrome plated

Application

Used with hose rack assembly or as a fire department outlet connection

Fog Nozzle- UL Listed

Description

EMACO industrial fog nozzles are made of cast bronze, manufactured in accordance with UL401 to handle the rigors of industrial needs and using that water flow can be controlled from shut-off to adjustable fog, straight-stream.

Features:

- Spray discharge adjustable fog (30° / 60° / 90°) pattern
- Operating pressure 100 PSI (Maximum)
- Discharge 130/205 GPM (Maximum) at 100 PSI
- Size: Ø 1½" and 2½"
- Available Threaded Inlet NST (NH) Female or NPSH Female (ANSI B2.4)

Options

- NST to BS336 male adaptor (on demand)

Application

Used use lined fire hose in most industrial applications, including hose rack and reel assemblies and Fire Hose mounted on Standpipe Systems



Fog Nozzle – Standard

Description

EMACO standard fog nozzles are Basic Spray Nozzle, made of bronze alloy, manufactured in accordance with ANSI/UL401 to handle the rigors of industrial needs and using that water flow can be controlled from shut-off to adjustable fog, straight-stream.

Features

- Spray discharge adjustable fog (30° / 60° / 90°) pattern
- Operating pressure 100 PSI (Maximum)
- Discharge 130/205 GPM (Maximum) at 100 PSI
- Size: Ø 1½" and 2½"
- Available Threaded Inlet NST (NH) Female or NPSH Female (ANSI B2.4)

Options

- NST to BS336 male adaptor (on demand)

Application

Used use lined fire hose in most industrial applications, including hose rack and reel assemblies and Fire Hose mounted on Standpipe Systems





Gate Valve - UL Listed

Description

EMACO UL Gate valves serve to cut the medium flow in the piping system. On opening the gate valve, the flow path is enlarged in a highly nonlinear manner with respect to percent of opening.

Feature:

- Material: Ductile Iron EN-GJS-450-10 /ASTM A536, 65-45-12.
- Working Pressure: PN10/16
- Temperature Range 0-80
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/ AWWA C550
- Size: 2" - 12"

Options:

- End Connection: Flange by Flange, Grooved by Grooved, Grooved by flanged, F by MJ, MJ by MJ Available.

Application

Widely used in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry.



Gate Valve- Standard

Description

EMACO Gate valves serve to cut the medium flow in the piping system. On opening the gate valve, the flow path is enlarged in a highly nonlinear manner with respect to percent of opening.



Feature

- Material: Ductile Iron EN-GJS-450-10
- Working Pressure: PN10/16
- Temperature Range: 0-80
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/ AWWA C550
- Size: 2" – 12

Options

- End Connection: Flange to Flange, Grooved to Grooved, Grooved to flanged, F by MJ, MJ by MJ, Available.

Application

Widely used in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry.

Globe Valve

Description

EMACO Globe valve main characteristic of this type of valve is to ensure the total elimination of leaks from the stem. This saves energy; maintain a safe plant and a clean environment.

Feature:

- Nominal pressure: PN-16
- Design: EN 13709 (DIN 3356)
- Connection: DIN Flanges 2543
- Size: DN15 DN200
- Face to Face: DIN 3202 F1
- Test & Inspection: EN 12266-1

Options:

- Globe Valve with Bellow or without bellow sealed, Piston type valve Available.
-



Application:

Steam Plant, Overheated Water, Thermal fluid, Vacuum, Hot and Cold water applications.

Butterfly Valve – UL listed

Description

Emaco Butterfly valves with its unique features have been used in water and fire protection Industry for many years.

Feature

- Design Standard: BS EN 593
- Top Flange standard: ISO 5211
- Working Pressure: PN10/16
- Temperature Range: 0-80
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/ AWWA C550 or painting upon request.
- Size: 2" – 12"

Options

- Grooved butterfly valve with or without tamper switch Lugged wafer butterfly valve with or without tamper switch, Wafer Butterfly Valve with or without tamper switch, Threaded Butterfly Valve with or without tamper switch is available.
- End connection: Groove to ISO 6182, BS EN 1092 PN10/PN16, Thread to ISO 7-1

Application

Widely used in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry.



Butterfly Valve – Standard

Description

Emaco Butterfly valves with its unique features have been used in water and fire protection Industry for many years.

Feature:

- Design Standard: BS EN 593
- Top Flange standard: ISO 5211
- Working Pressure: PN10/16
- Temperature Range: 0 - 80
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/ AWWA C550 or painting upon request.
- Size: 2" – 12"

Options:

- Grooved butterfly valve, Lugged wafer butterfly valve, Wafer Butterfly Valve, Threaded Butterfly Valve. Flanged Butterfly Valve, Double Eccentric Flanged Butterfly Valve is available.
- End connection: Groove to ISO 6182, Flange to BS EN 1092 PN10/ PN16, Thread to ISO 7-1

Application

Widely used in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry.



Check / Non-Return Valve – UL Listed

Description

EMACO Check valves serve to prevent the backflow of medium in the piping system for protection of important equipment.



Feature:

- Material: Ductile Iron EN-GJS-450-10
- Working Pressure: PN10/16
- Temperature Range: 0 - 80
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/ AWWA C550
- Size: DN15 to DN300

Options

- Flanged Resilient Swing check valve, Grooved Resilient Swing check valve.
- Connection Ends: Flange to BS EN 1092-2:1997, Groove to ISO 6182

Application:

Pumps, Industrial processes, Domestic use

Check / Non-Return Valve – Standard

Description

EMACO Check valves serve to prevent the backflow of medium in the piping system for protection of important equipment.



Feature:

- Material: Ductile Iron EN-GJS-450-10
- Working Pressure: PN10/16
- Temperature Range: 0 - 80
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/ AWWA C550
- Size: DN15 to DN300

Optional:

- Bronze, ductile iron, iron body, bronze mounted trim (IBBM), and corrosion resistant materials.
- Solder, threaded, flanged, wafer, grooved end connections
- End connections for Class 125, 150, 200, 250, 300

Application:

Pumps, Industrial processes, Domestic use

Strainer – UL Listed

Description

EMACO UL Strainers are important components of piping systems to protect equipment from potential damage due to dirt and other particles that may be carried by the process fluid.

Feature:

- Working Pressure: PN10/16
- Temperature Range: -10 - 200 (graphite gasket), 0 - 80 (rubber gasket)
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550
- Size: 2" – 12"

Options:

- Grooved Y-strainer, Flanged Y-strainer is available.

End connection: Groove to ISO 6182, Flange to BS EN 1092 PN10/PN16.

Application

EMACO UL Strainer used in many Industries, including: Chemical processing, Petroleum, Power generation and marine.



Strainer – Standard

Description

EMACO Strainers are important components of piping systems to protect equipment from potential damage due to dirt and other particles that may be carried by the process fluid.

Feature:

- Working Pressure: PN10/16
- Temperature Range: -10 - 200 (graphite gasket), 0 - 80 (rubber gasket)
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550
- Size: DN 15-DN 300

Options

- Grooved Y-strainer, Flanged Y-strainer, Threaded type Y-strainer is available. End connection: Groove to ISO 6182, Flange to BS EN 1092 PN10/PN16.

Application

EMACO Strainer used in many Industries, including: Chemical processing, Petroleum, Power generation and marine.



Foot Valve

Description

EMACO foot valve is virtually a second suction valve placed at the bottom or foot of the suction pipe. Foot valves are check valves that make sure that the pump is always primed.



Feature

- Suitable pressures up to 200 psi (1375 kPa)
- Optional fusion bonded epoxy
- Sizes: DN15mm- DN300mm

Options:

- FLANGED ANSI CLASS 125 OR CLASS 250
- Flanged and Threaded available

Application:

Municipal Water Treatment, Rural Fire Protection, Irrigation/Agriculture, Industrial, HVAC, Car Wash Systems.

Ball Valve

Description

A ball valve is a form of quarter-turn valve which uses a hollow, perforated and pivoting ball to control flow through it.

Features

- Materials BS Standards
- Long life cycle
- Low torques
- Size: DN 15-DN 300

Options

- Body: One, two and three pieces available upon request. Materials: Brass, Bronze,
- Carbon Steel, SS is available,

Application

Commercial, industrial and residential applications



Pressure Relief Valve

Description

This valve is used for the high building fire fighting system. When the pressure in the water supply pipeline is over the one set for pressure relieving, the pressure relieving valve is opened to prevent both pipeline and equipment from getting damaged due to an excessive pressure

Feature

- The body uses full-channel streamline design, leaving a small fluid resistance and a great flow. This valve can be used as a pressure relieving valve and also a pressure holding valve.
- Size: DN25 – DN800(Globe, Angle)

Options:

- Type: Pilot operated, Spring loaded, Pressure Relief Valve Bellow sealed type.
- End connection: Flanged, Threaded, Grooved is available.

Application:

Used In the Fire protection system, petroleum refining, petrochemical and chemical manufacturing, natural gas processing and power generation industries, the term relief valve is associated with the pressure safety issue.



Pressure Regulating/ Reduce Valve

Description: Adjust and control the outlet pressure of the master valve. The said pressure will not be changed along with the change with the inlet pressure, neither along with the change of the flow on the master valve outlet.

Feature

- Flow and leakage reduction
- Cavitation damage protection
- Temperature Range: Up to 80
- Throttling noise reduction
- Burst protection
- Size: DN15 to DN800(Globe, Angle)

Optional

- Type: Direct acting Pilot operated, Pilot Piston Operated,
- Solder, threaded, flanged, grooved end connections

Application

Applicable for the living water supply, fire fighting system and industrial water supply system.



Flow Meter

Description

Flow Meters are devices that measure the amount of Liquid, gas or vapor that passes through them. Some Flow Meters measure Flow as the amount of Fluid passing through the Flow Meter during a time period.



Features

- Patented accuracy of 0.5%
- Friction loss less than 1 psi
- Digital gauge with 4-20ma transmitter
- Reverse polarity protection
- Size: DN 25-DN 600

Options

- End connection: Flanged, Grooved, Threaded, But Welded

Application

All kind of fluid flow measurement applications.

Waste Cone

Description

Waste cones are designed to provide quick-and-easy visual confirmation of proper water flow in fire protection systems.



Features

- Available for Onshore and Offshore Applications
- Manufactured in Accordance with NFPA 20 Requirements
- Size: Available size client's requirements.

Options

End connection: Flanged, Grooved, Threaded, But Welded

Pressure Gauge

Description

Pressure measurement is the analysis of an applied force by a fluid (liquid or gas) on a surface.



Feature

- Liquid filled stainless steel case protects against vibration and pulsation.
- Highly accurate
- Size: Available size client's requirements.

FIRE HYDRANT



FIRE HYDRANT EQUIPMENT



HYD056-CI-100-YW



HYD056-CS-150-RD

HIGH PRESSURE FIRE HYDRANT

Body material : Model HYD056-CI-100-YW - Cast Iron to BS 1561
 Model HYD056-CS-150-RD - Carbon Steel
 Test pressure : 30 bar (435 psi)
 Working pressure : 20 bar (300 psi)
 Outlet pressure setting : 7 bar (101 psi) at static flow
 Finishing : Red & Yellow

Code No.	Outlet	Inlet
HYD056-CI-100-YW	2 x 2-1/2" Pressure Regulating Control Valve with Female BS Instantaneous Outlet	4" Table E BS 10 Flange
HYD056-CS-150-RD	4 x 2-1/2" Pressure Regulating Control Valve with Female BS Instantaneous Outlet	6" Table E BS 10 Flange



HYD059-CI-100-RD



HYD060-CI-100-YW

2 WAY FIRE HYDRANT

Body material : Cast Iron to BS 1561
 Outlet : Copper alloy BS 1982
 Test pressure : 20 bar (300 psi)
 Working pressure : 15 bar (217 psi)
 Finishing : Red & Yellow

Model HYD059-CI-100-YW can be fitted with an underground 4" gate valve with spindle cap (sluice valve) and operated by using a hydrant key and bar (HYD066-CI-030-BK / HYD066-LA-030-NA)

Code No.	Outlet	Inlet
HYD059-CI-100-RD	2 x (2-1/2") Male Thread NST/BSP	4" Table E BS 10 Flange
HYD060-CI-100-YW	2 x 2-1/2" Control Valve with Female BS Instantaneous Outlet	4" Table E BS 10 Flange
HYD060-CI-100-RD	2 x 2-1/2" Control Valve with Female BS Instantaneous Outlet	4" Table E BS 10 Flange

FIRE HYDRANT EQUIPMENT



HYD061-CI-150-RD



HYD055-CI-150-RD

3 WAY FIRE HYDRANT

Body material : Cast Iron to BS 1561
 Outlet : Copper alloy BS 1982
 Test pressure : 20 bar (300 psi)
 Working pressure : 15 bar (217 psi)
 Finishing : Red

Model HYD061-CI-150-RD can be fitted with an underground 6" gate valve with spindle cap (sluice valve) and operated by using a hydrant key and bar (HYD066-CI-030-BK / HYD066-LA-030-NA)

Code No.	Outlet	Inlet
HYD061-CI-150-RD	2 x (2-1/2") Male Thread 1 x 4" Male Thread	6" Table E BS 10 Flange
HYD055-CI-150-RD	2 x 2-1/2" Control Valve with Female BS Instantaneous Outlet 1 x 4" Male Thread	6" Table E BS 10 Flange



4 WAY FIRE HYDRANT

Body material : Carbon Steel
 Outlet : Copper alloy BS 1982
 Test pressure : 30 bar (435 psi)
 Working pressure : 20 bar (290 psi)
 Outlet pressure setting : 7 bar (101 psi)
 Finishing : Red

Code No.	Outlet	Inlet
HYD052-CS-150-RD	4 x 2-1/2" Pressure Regulating Control Valve with Female BS Instantaneous Outlet	6" ANSI B16.5 Welding Neck Flange 300# FF

INTERNAL VALVE FIRE HYDRANT

This hydrant is operated by using a hydrant wrench to turn the operating mechanism at the top of the hydrant which will open the valve seat. It is available in two sizes 4" and 6".

SPECIFICATION

Body : Cast Iron
 Valve seat : Nylon
 Valve seat ring : Bronze
 Test Pressure : 20 Bar (300 psi)
 Working Pressure : 10 Bar (145 psi)



Code No.	Outlet	Inlet
HYD086-CI-100-RD	2 x (2 - 1/2") male thread, 1 x (4") male thread	4" PN16 BS 4504
HYD087-CI-100-RD	2 x (2 - 1/2") control valve with female BS instantaneous outlet, 1 x (4") male thread	4" PN16 BS 4504
HYD088-CI-100-RD	2 x (2 - 1/2") control valve with female BS instantaneous outlet, 1 x (4") monitor unit	4" PN16 BS 4504
HYD086-CI-150-RD	2 x (2 - 1/2") male thread, 1 x (4") male thread	6" ANSI 150RF
HYD087-CI-150-RD	2 x (2 - 1/2") control valve with female BS instantaneous outlet, 1 x (4") male thread	6" ANSI 150RF

Refer to landing valve section for type of control valves
 Extension pipe available upon request

TRAFFIC IMPACT HYDRANT

The main valve will remain tightly closed even if the hydrant is accidentally damaged by traffic impact.

Code No.	Outlet	Inlet
HYD088-CI-150-RD	2 x (2 - 1/2") control valve with female BS instantaneous outlet, 1 x (4") male thread	6" ANSI 150

INDICATOR POST WITH GATE VALVE



The Indicator Post with gate valve provides a means for operating a buried or otherwise inaccessible gate valve to controlled flow of water in buried pipe. A wrench is provided to fit on top of the unit for turning the gate valve open and shut.

Indicator Post readily and clearly indicates whether the gate valve buried is open or shut. It is suitable for gate valves from 4" up to 12".

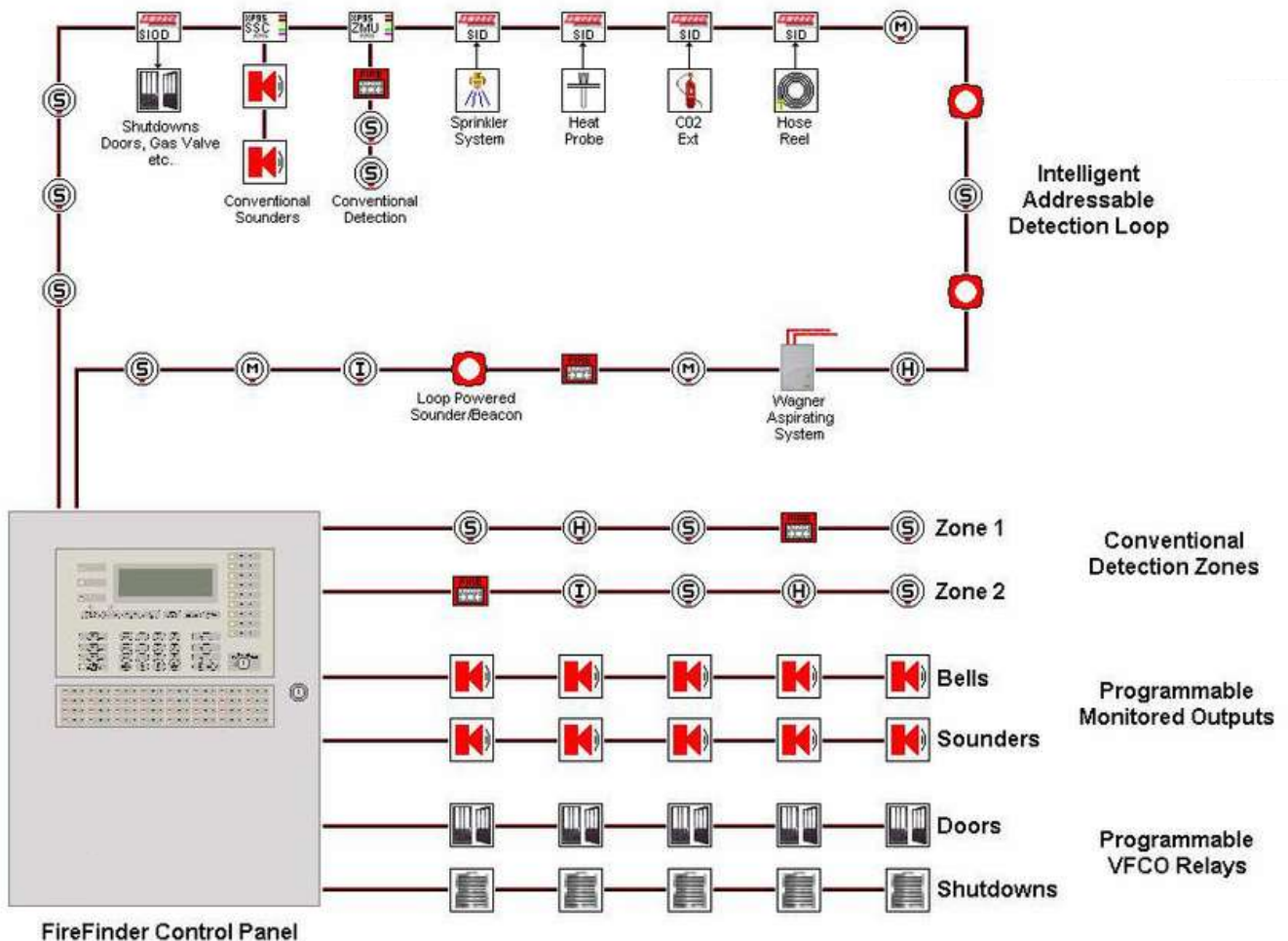
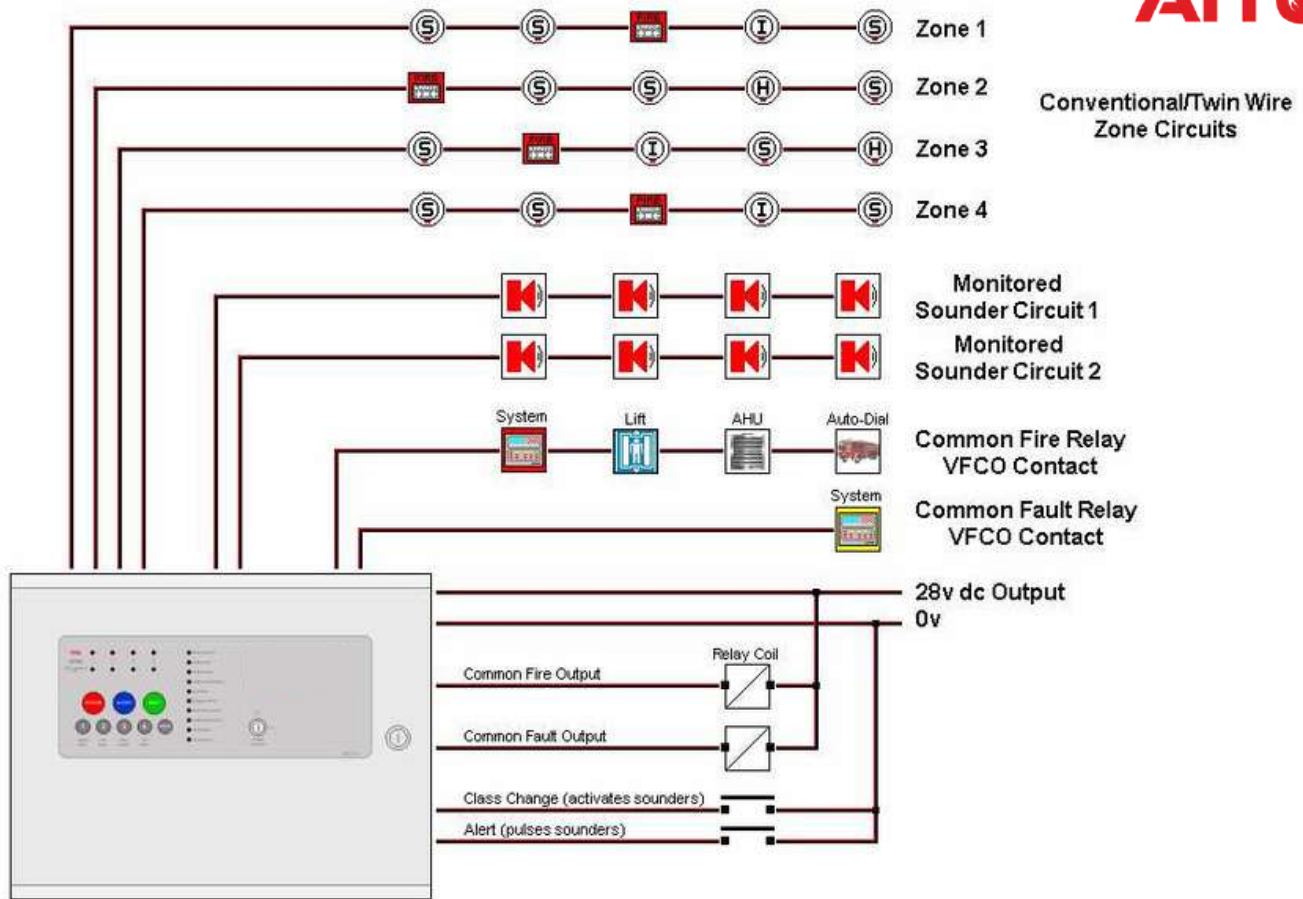
The Indicator Post is manufactured to suit various buried depth, it is also easily adjusted in the field for exact depth without disassembly. It is mounted on top of the gate valve with flange for support.

Material of construction: Cast Iron

Code No.	Gate Valve Size
HYD090-DI-100-RD	4" (100mm)
HYD090-DI-150-RD	6" (150mm)
HYD090-DI-200-RD	8" (200mm)
HYD090-DI-250-RD	10" (250mm)
HYD090-DI-300-RD	12" (300mm)

FIRE ALARM PANEL





ZoneSense PLUS Conventional



Product Overview

The Ampac ZoneSense PLUS Fire Alarm Control Panel is a versatile four or eight zone conventional panel. The user friendly navigation system provides simple operation during an emergency while also enabling complex cause and effect programming to be undertaken.

A range of modular panel add-on kits allows the panel to be professionally tailored to the requirements of each installation. This means small conventional panels can now be used in a wider range of applications.

ZoneSense PLUS offers you complete control. The panel can be easily upgraded and programmed on site. ZoneSense PLUS is approved to AS4428 and is available in ABS (BX1) or metal cabinets (BX20) with either four (4) or eight (8) zone conventional detection circuits

- Complies with AS4428.1
- Available in 4 Zone or 8 Zone Panels
- Up to 40 Conventional detectors per zone
- RS485 port supports a range of Add-on modules
- available in ABS (BX1) and Metal (BX20) cabinet versions

ZoneSense DH4 Conventional



Product Overview

The ZoneSense DH4 Control Panel is a simple and low cost 4 zone panel. It is an ideal fire panel for any small residential applications (not requiring brigade monitoring) or can also be used as a door holder control panel. Each of the 4 zones can be connected up to 40 x high quality commercial grade conventional fire detectors to deliver a high quality detection & alarm system. It is possible to use the ZoneSense panel in 'Mains only' option mode which eliminates the need to connect back up batteries. Both ABS and Metal versions are available.

- Dual Door Holder Outputs
- Mains Only Mode
- Low Quiescent Current
- Walk Test Facility
- Alert Input
- Up to 40 Conventional detectors per Zone
- Available in ABS (BX1) and Metal (BX10) cabinet versions

ZoneSense PLUS AR Conventional



Product Overview

The ZoneSense PLUS AR (Agent Release) Panel is a dedicated panel for agent release systems. Housed in a metal cabinet, the ZoneSense PLUS AR is available in either four (4) or eight (8) zones. Based on a ZoneSense PLUS Fire Alarm Control Panel (FACP), the AR version is fitted with an Agent Release Panel Add-on (control card and termination board) and a dual action yellow manual call point as standard. The Agent Release panel add-on option is factory set.

- Dedicated Agent Release system - purpose built with a host of ancillary products to suit
- Comprehensive system status – the AR panel includes a number of system status indicators that facilitates ease of operation and maintenance
- Local Control Station with control and indication – mimics full status of the Agent Release panel. An outdoor version of this product is available
- User interface and operation based around Industry Fire Emergency procedures – ensures that the system installed is intuitive and easy to use
- Dual action Manual Call Point – the yellow MCP is a break glass type and requires a dual action to be activated i.e. lift the protective transparent cover and break the glass
- Agent Release Panel is compliant with AS4214

LoopSense Intelligent



Product Overview

LoopSense is an Intelligent Analogue Addressable Fire Alarm Control Panel. Available in one or two loops, the LoopSense comes packed with options and features that facilitate flexibility, ease of installation and commissioning.

- Complies to AS7240-2:2004, AS7240-4:2004, and AS4428-3:2010 -ActivFire listed
- Clear back-lit 240 x 64 graphic LCD
- 500mA loop current
- Advanced balanced loop design for noise rejection
- Auto learn facility
- Supports extensive range of Add Ons, including the SmartTerminal Repeater
- User friendly Loopmaster programming software tool
- Laptop connection using USB2.0 or RS232 serial port
- Available in ABS (BX1) and Metal (BX10) cabinet versions



PRODUCT FAMILY

FPA-1000 Analog Addressable Fire Panels

- Support for up to 508 points on two analog addressable loops
- Built-in Ethernet connector for web-browser based programming and Conettix Alarm-over-IP communication
- Two on-board NACs and dual-line PSTN DACT
- Peer-to-peer networking of up to eight -V2 panels in a single group
- Suited to a wide range of applications and compatible with the latest Bosch solutions - including 440 Series Multi-criteria detectors
- Simple system management and free online training
- Variety of communication channels
- Gas detection



PRODUCT FAMILY

D7030X Family LED annunciators

- Use with the FPA-1000 Analog Addressable Fire Panels or FPD-7024 FACPs
- LED indicates power, trouble, and zone status
- LED annunciates eight individual zones expandable to 64 zones
- Aesthetically appealing appearance, mounts flush to electrical box in either surface or flush mounted configurations
- UL Listed

SMOKE DETECTOR



AITO INTERLINK SMOKE DETECTOR



Wireless Interlink Function:

1. This smoke detector can be matched program to interlink with up to 15 units of the same model smoke detector.
2. When one detector detects smoke and give off main alarm, all the other match programmed detectors will give off secondary alarm as well.
3. The smoke detector will still function as an individual standalone unit if no match program being made.

Specifications

Brand: AITO
 Dimensions (in mm): 120 x 120 x 35.5
 Weight: 115g

Battery life: 5 Years
 Battery type: Replaceable.
 Certification: CE, BOMBA
 Certification

AITO INTERLINK SMOKE DETECTOR

AITO Interlink Battery Operated
Smoke Detector

Product General Specification:

1. Detection: Photoelectric technology
2. Power: 3 volt (AA battery 1.5 volt x 2)
3. Alarm volume: 85 dB at 3 meter

This smoke detector uses photoelectric technology, sensitive in detecting smoldering fire which normally produced in residential fire.

The battery-powered photoelectric smoke and heat alarm is designed to protect you and your family from the dangers of smoke and fire.

The photoelectric technology, it is more sensitive in detecting slow smoldering fires which generate light smoke, little heat and may smolder for hours before bursting into flames. This smoke alarm does not contain any radioactive material.

Wireless Distance

Up tp 15 pcs
interconnection

Easy installation
No wiring required

Commercial and
Residential Use



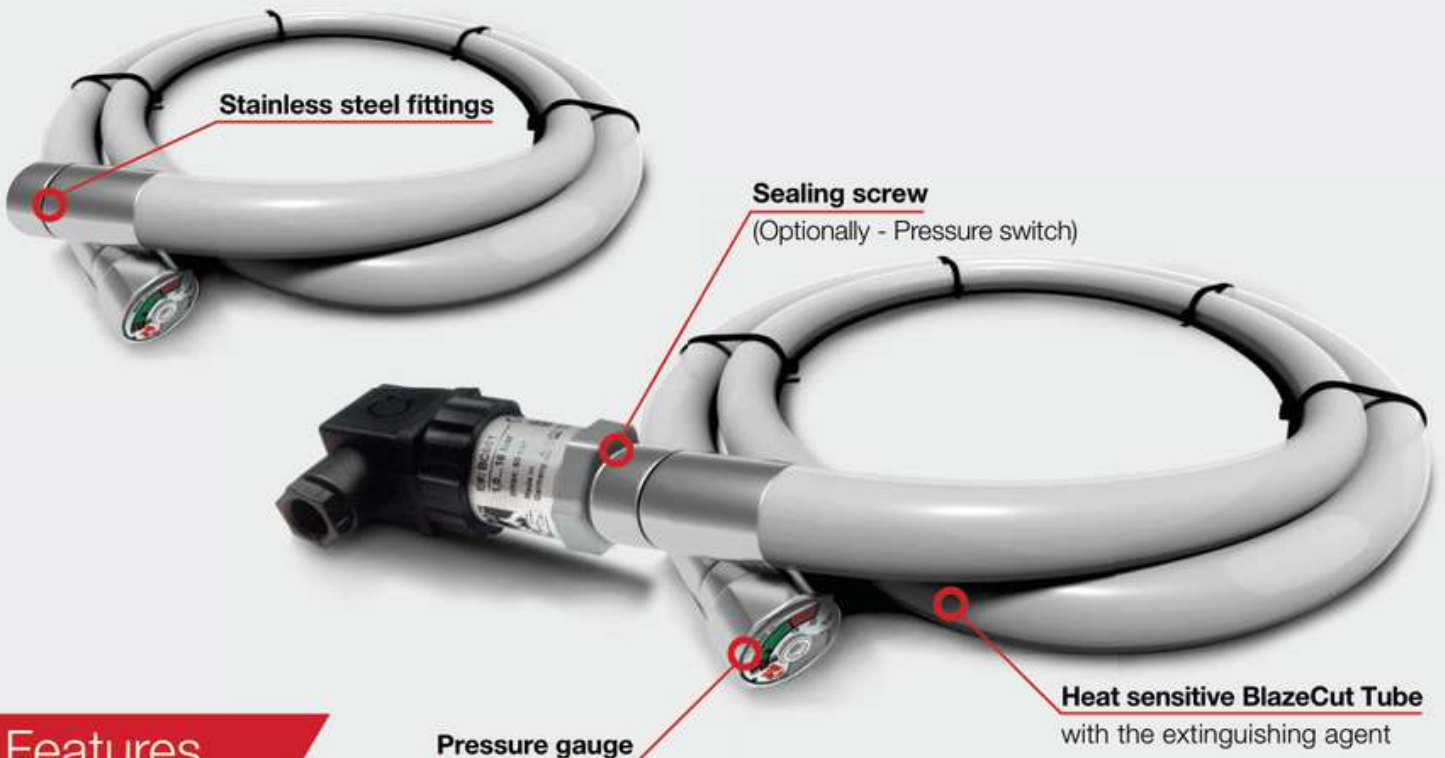
BLAZECUT


















Blazecut T-series



The system consists of a heat sensitive BlazeCut Tube made of special plastic which is closed by a stainless steel fitting on each end. The BlazeCut Tube has both storage and detection function which means that the extinguishing agent is stored directly in the BlazeCut Tube and no additional storage device such as cylinder is needed.



Features

-  Universal use: high flexibility of BlazeCut Tube and A, B, C and electrical fires class rating can protect almost any space
-  High cost-effectivity: zero maintenance, long working life, automatic activation beats the competition in cost-effectivity
-  No cylinder for storage of extinguishing agent needed: the whole system can be placed inside the protected enclosure
-  Option to connect the pressure switch and other additional components like signaling unit to perform further functions
-  Clean and effective extinguishing agent: world-wide known and accepted HFC gases (HFC-227ea and HFC-236fa)
-  No pressurization needed: the system works by increasing pressure of the extinguishing agent when heated
-  Automatic operation based on increased temperature: ideal for non-occupied spaces or spaces out of sight
-  Fully independent: system is operational 24/7 without any power supply
-  No maintenance during entire working life = zero maintenance costs
-  Long working life: 5 – 10 years depending on the type of application
-  No harm to protected enclosure and people when discharged
-  Very simple installation: no training required for installation
-  Pressure gauge to monitor the pressure at any time
-  Low operation temperatures: up to -40°C
-  Activation temperature: about 120°C

Type of system	Extinguishing Agent	Amount of extinguishing agent (kg)	Length of the system (cm)	Outside diameter of the tube (mm)	Max. volume of the protected enclosure (m ³)	Operation Temperature (°C)
TD100EA	HFC-227ea	0,25	110	18	0,20-0,30	-40°C to +60°C
TV100FA	HFC-236fa				0,22-0,35	-40°C to +80°C
TD200EA	HFC-227ea	0,50	212		0,40-0,60	-40°C to +60°C
TV200FA	HFC-236fa				0,43-0,70	-40°C to +80°C
TD300EA	HFC-227ea	0,75	316		0,60-0,87	-40°C to +60°C
TV300FA	HFC-236fa				0,65-1,04	-40°C to +80°C
TD400EA	HFC-227ea	1,00	419		0,78-1,16	-40°C to +60°C
TV400FA	HFC-236fa				0,86 -1,40	-40°C to +80°C

Optional Components

Unique construction of the system allows to connect the pressure switch, which monitors the pressure inside the BlazeCut Tube, and once the system is discharged the pressure switch sends a signal to signaling unit or to external device to perform other operation (e.g. disconnect the power).

Standard BlazeCut components



Pressure Switch BC001



Signaling Unit BC016



Signaling Unit BC004

Connected to the fitting of the system, the pressure switch monitors the pressure and sends a signal in case the pressure drops under pre-set value.

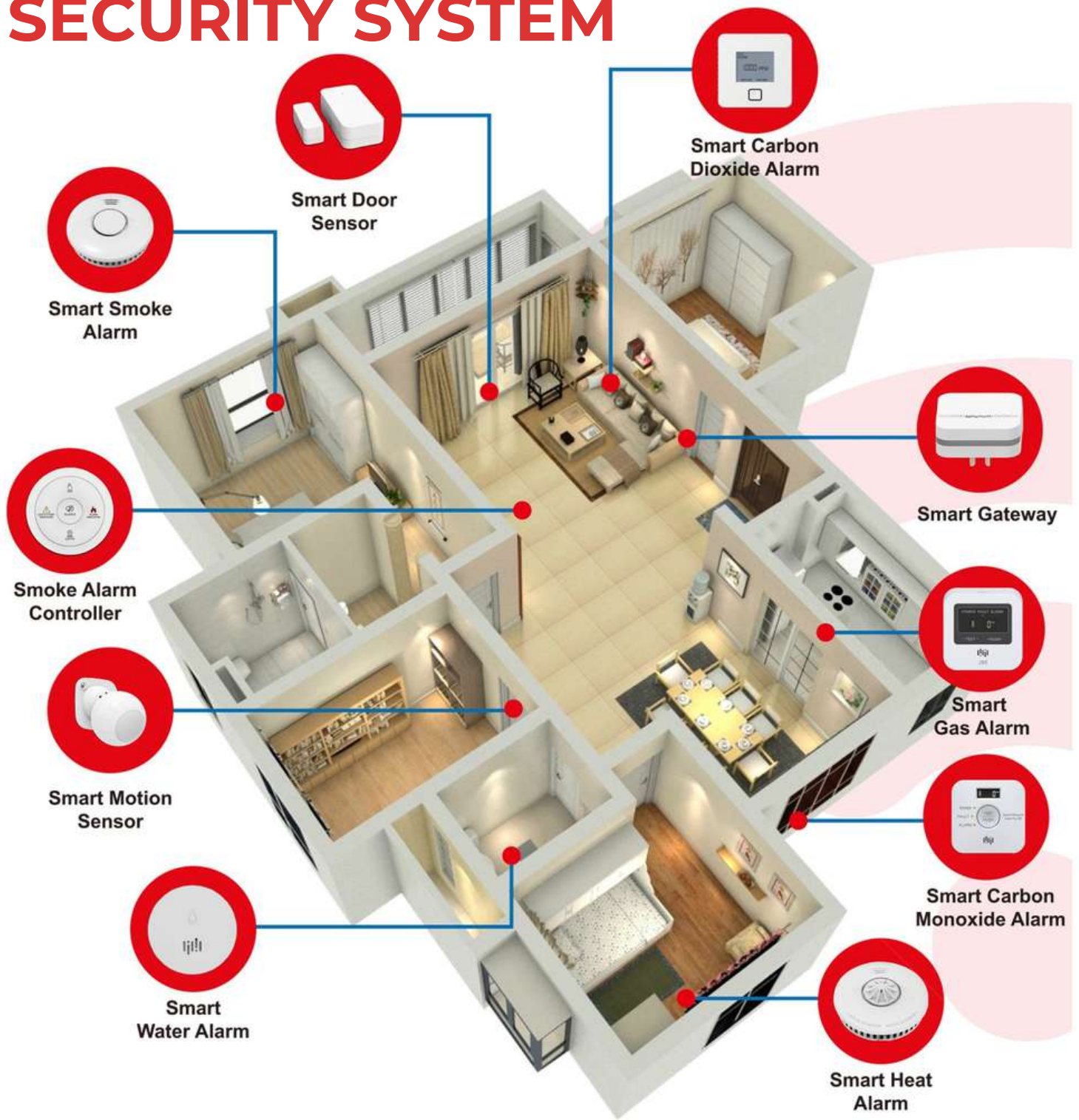
Audio-optical signaling device for applications in vehicles, machines or boats. Includes a "ready" control light with a power backup battery.

Simple and cost-effective audio-optical signaling device for indoor applications.



SMART HOME DEVICES

AITO SMART SECURITY SYSTEM





TGH0101M

Smart Gateway

- ◆ Power supply: AC 100-240V 50/60MHz
- ◆ Siren function for optional
- ◆ Multi-protocol, Zigbee, RF and Bluetooth for optional
- ◆ WIFI standard: IEEE 802.11b/g/n, frequency 2.4GHz
- ◆ Compatible with TUYA App
- ◆ Temperature and humidity detection function



TWS0101R

Smart Water Alarm

- ◆ Power supply: DC3V(CR2)
- ◆ Alarm volume: ≥85dB at 1m
- ◆ Waterproof level: IP65
- ◆ Ultra thin design
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ



TSS380C-HR

Smart Smoke Alarm

- ◆ Power supply: 2*AA replaceable battery
- ◆ Conform to EN14604:2005/AC:2008
- ◆ Alarm volume: ≥85dB at 3m
- ◆ Silence function: Approx. 8 mins
- ◆ Automatic dust compensation
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ



TCS0103R

Smart Carbon Dioxide Alarm

- ◆ Power supply: 100-240V wide voltage supply
- ◆ Temperature and humidity detection function and real-time display
- ◆ Switch to sleep mode with one click
- ◆ The red, yellow, and green colors show at a glance
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ



TCS0102R

Smart Carbon Monoxide Alarm

- ◆ Power supply: 2*AA battery
- ◆ Conform to EN50291-1:2018
- ◆ Alarm volume: ≥85dB at 3m
- ◆ Silence function: Approx. 8 mins
- ◆ Desk stand feature
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ



TPD0101R

Smart Motion Sensor

- ◆ Power supply: DC3V(CR123A×1)
- ◆ Detection angle: 120°
- ◆ Warm up time: 10s
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ



TGS0101R

Smart Gas Alarm

- ◆ Power supply: AC220V/ 50Hz
- ◆ Conform to EN50194
- ◆ Alarm gas: Natural Gas (Methane)
- ◆ Alarm volume: ≥85dB at 1m
- ◆ Silence function: Approx. 8 mins
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ



TDD0101R

Smart Door Sensor

- ◆ Power supply: DC3V(CR1632×1)
- ◆ Heartbeat cycle: 8~12 hours
- ◆ Universal design fits for different kinds of doors/windows
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ



THS385C-HR

Smart Heat Alarm

- ◆ Power supply: 2*AA replaceable battery
- ◆ Conform to BS5446-2: 2003
- ◆ Alarm volume: ≥85dB at 3m
- ◆ Silence function: Approx. 8 mins
- ◆ Automatic dust compensation
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ



TWR0101R

Remote Controller

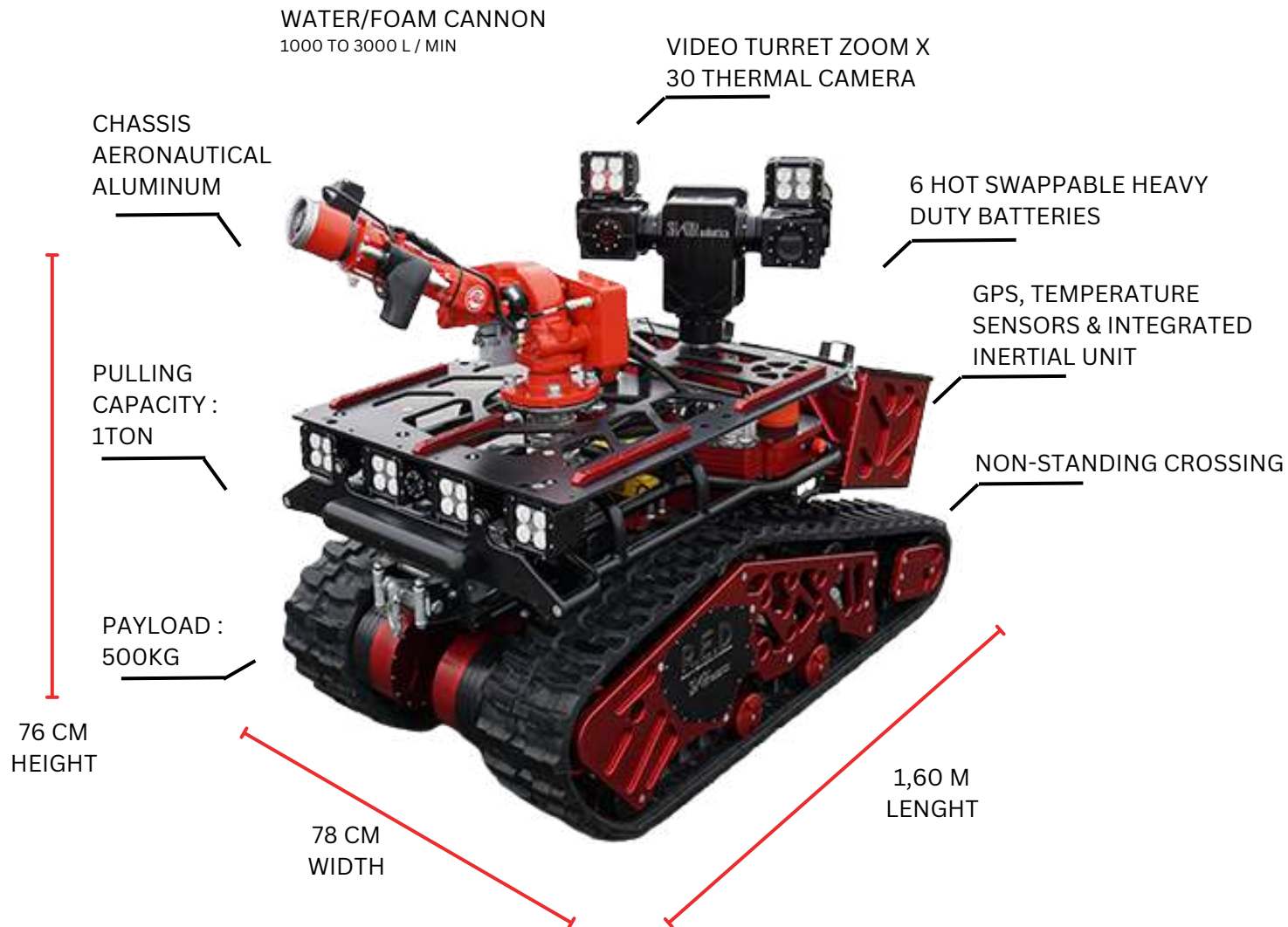
- ◆ Power supply: CR2450
- ◆ Test, silence, location functions
- ◆ Transmission distance > 100m
- ◆ Communication protocol: Zigbee/RF 433MHZ

SHARK ROBOTICS











COLOSSUS

MULTI-PURPOSE FIRE FIGHTING ROBOT (500 KG RANGE)



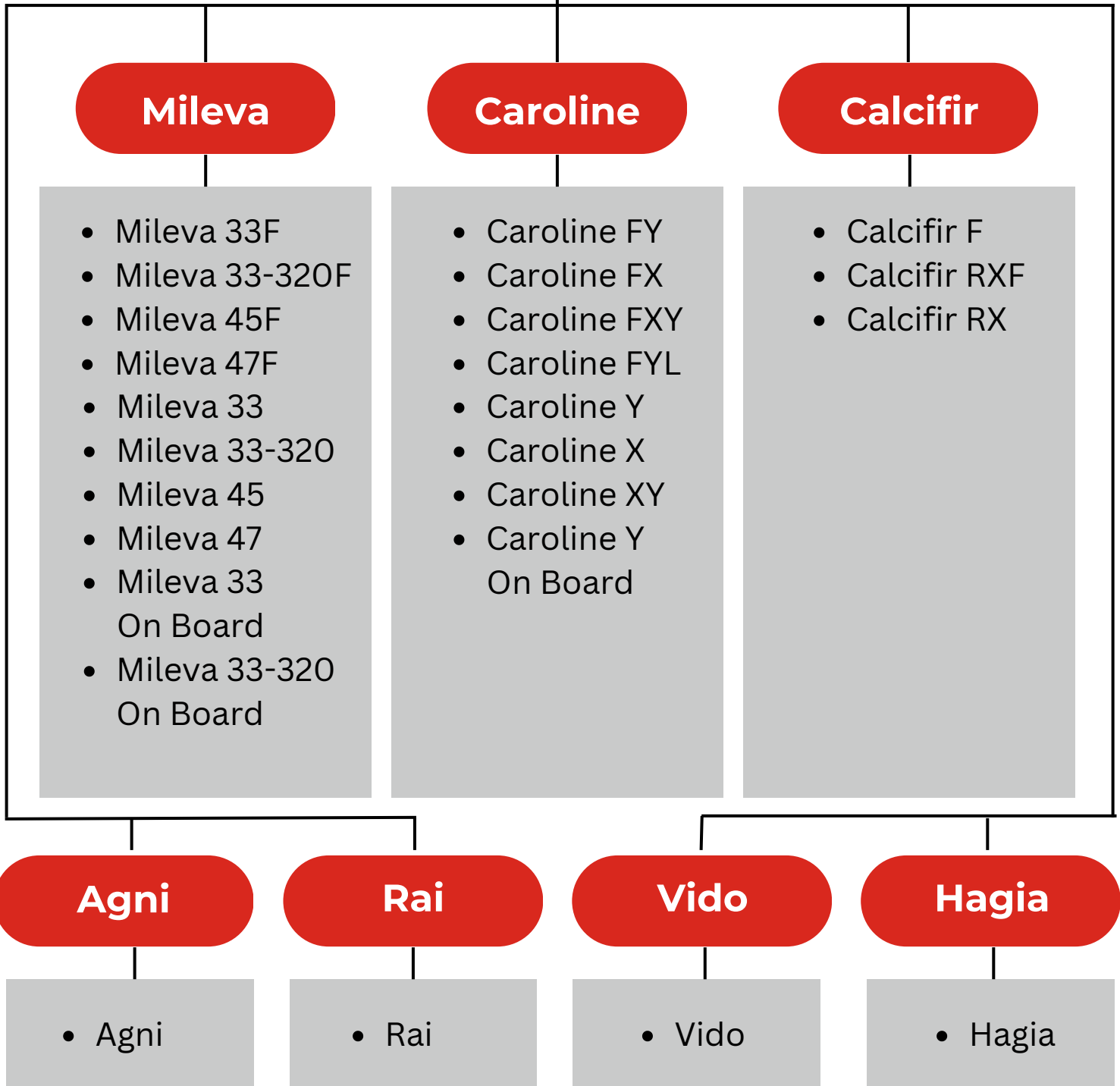
Features

-  **WEIGHT : 525 KG**
-  **SPEED : 5 KM/H**
-  **OBSTACLE CLEARANCE : UP TO 30 CM**
-  **WATERPROOF : IP67 EQUIVALENT**
-  **MOTORIZATION : ELECTRIC ENGINES
2 X 4000 W**
-  **LITHIUM-ION : 6 SHARK ENERGY ULTRA
RESISTANT BATTERIES -14S8P - 48V - 27AH**
-  **SLOPE : UP TO 40° | SIDE SLOPE : UP TO 35°**
-  **DURATION : 12 HOURS IN OPERATIONS**



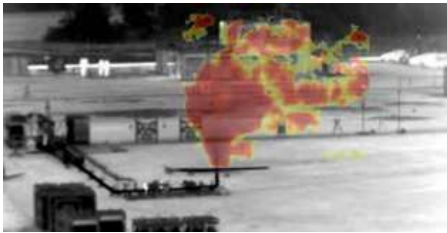
SENSIA






SENSIA REDLOOK Technology

 **Gas Detection**



High detection probability and low false alarm rates

 **Gas Quantification**



Detect, colour and quantify the mass flow rate of the leak

 **Flame Detection**



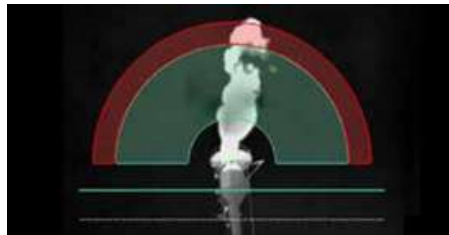
The most reliable early warning system for fire

 **Surveillance**



The next generation functionalities for security and safety

 **Flare Monitoring**



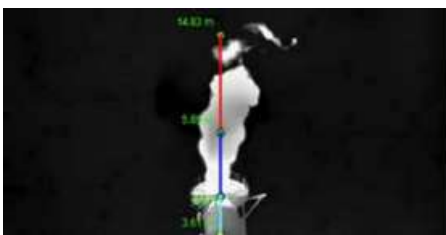
Real time performance monitoring and early detection of liquid carryover

 **I. Thermography**



Automatic temperature control system based on high accuracy thermography

 **Flare Efficiency**



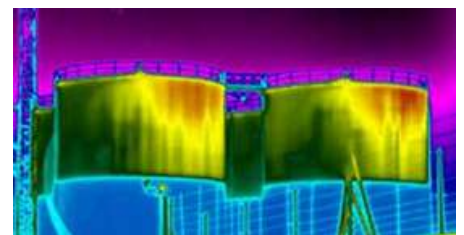
Smoke index warning destruction and removal efficiency indicator

 **Spill Detection**



Non-volatile hydrocarbons and spills detection

 **Tank Leveling**



Remote and automated tank level monitoring without opening the thief hatch

SENSIA Products Certifications



Mileva 47F



24/7 monitoring for carbon monoxide gas leaks

Caroline FY



24/7 monitoring for Methane and SO2 gas leaks

Agni



OGI for Flared Gases Analysis

Calcifir F



Multiple Flare Monitoring System

Rai



24/7 infrared flame detection system

Vido



24/7 infrared surveillance system

Hagia



Fever screening system

Mileva 33 On Board



OGI for unmanned aircraft surveys

	Gas Detection	Gas Quantification	Surveillance	Flare Monitoring	Flare Efficiency	Flame Detection	Spill Detection	Tank Levelling	Intelligent Thermography	Furnace Inspection	Elevated Body Temp.
Caroline F Series	●	●	●			●	●	●	●		
Mileva F Series	●	●	●				●	●	●		
Calcifir F				●					●*		
Calcifir RXP									●*	●	
Agni				●	●			●			
Rai			●			●	●	●	●		
Vido			●						●		
Higia											●

* T>120°C

Fixed Cameras



Handheld Cameras



On Board Cameras



Non-imaging Technology





SMART SMOKE DETECTOR TESTER



FIREVIEW



THE WORLD'S FIRST UNIFIED FIRE DETECTOR TESTING SYSTEM

AN ALTERNATIVE, QUALIFYING SOLUTION FOR YOUR SAFETY



WHY FIREVIEW?

World's first Unified System / Convenient Unified System

- Fireview combines independent heat and smoke testing function into one unified tester.

Lightweight and efficient portability

- The utilization of its chargeable battery allows for easier procedure

Simple and fast test system

- Adjustable inspection pole, one button operation.

Fireview offers less price for better quality/It beats the industry leader in both categories, Price and quality.

Excellent customer service for quality assurance

- We guarantee excellent product quality and safety with prompt and integrated aftersales service system.

Using the remote control or smartphone.

10m&6m INSPECTION POLE

Standard Inspection Pole extends from 2 to 3 meters. If long pole is needed, 6 meter and 10 meter poles are also available for additional price. Inspection poles are used for detectors installed to high ceiling areas such as storage, auditoriums and factories.



DETECTORS REMOVAL TOOLS

Detectors need removal tools because these tools save you time, cost and even lowers the risk of falling ladders or scaffolding. We offer multiple types of detector removal tools fitted to your detector companies such as Simplex. We also offer a customized detector removal tools uniquely designed for your own detector.

Items	Specificaton
Testable detector	<p>Heat: Rate of Rise H at Detector, Fixed Temperature Heat Detector</p> <p>Smoke: Ionizetin Smoke Detector, Photoelectric Smoke Detector</p> <p>Option: Analog Type Detector, Unexploded Type(Heat)</p>
Head Size	150mm (Detector Inspection)
Inspection Pole Length	Minimum approx. 127cm / Maximum approx. 250cm
Weight	2.3kg
Material	Aluminum, etc
Operating Temp Range	0~40°C
Keeping Temp Range	-10 to approx. 40°C
Operating Humidity Range	0 to approx. 85%, No Frost
Smoke Genarator Ability	Approx, 50 testable based on 100ml smokre detector
Battery	14.8V Li-ION
Battery Charging Time	Full charger consumes approximately 5 hours
Charger	Input: AC 100-240V, 50-60 Hz, 0.5A / Output: DC 12V2A
Tester Ability (One Time Charge)	<p>Approximately 200 Heat Detectors</p> <p>Approximately 300 Heat Detectors</p>

Components



CARRYING BAG



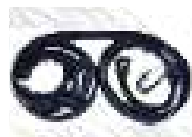
STANDARD INSPECTION
POLE



REMOTE CONTROL



CHARGER



POLE BELT



SMOKE OIL

FIRE AND SAFETY SOLUTION






AITO Firework Holding Sdn Bhd (1122958-V)

**HQ: No 11 Jalan Alfa D U6/D Pusat Perdagangan Subang Permai, Seksyen U6, Subang Permai,
40150 Shah Alam, Selangor**


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 Aito Team Support

