

# An Introduction To **EVERSAFE®** Portable & Mobile Fire Extinguishers



**EVERSAFE®** range of Fire Extinguisher is certified to various international standards/directives:

- **European Standard – BS EN 3 & BS EN 1866**
- **Australian Standard – AS/NZS 1841**
- **Malaysian Standard – MS 1539**
- **Singapore Standard – SS EN 3**
- **PED (Pressure Equipment Directive)**
- **MED (Marine Equipment Directive)**

## Extinguisher Features

Extinguisher bodies are fully deep drawn from cold rolled steel, and pressure tested to twice the extinguisher's working pressure. Cylinders are externally coated with polyester (with phosphate under treatment) for maximum corrosion resistance and have passed the 480-hours salt spray test.

For extreme environment installations, we recommend the use of our **CR (Corrosion Resistant)** Fire Extinguishers.

## Type of Extinguishant:

<b>Dry Chemical Powder (ABC)</b>	<b>Dry Chemical Powder (ABC)</b> is a mixture of highly efficient mono-ammonium phosphate and ammonium sulphate ground to selected particle sizes and made resistant to influences of climate extremes by means of hydrophobing agents. It is a versatile and safe extinguishant, and is ideally suited to environment where the fire hazard is mixed. It also offers fast knockdown, protection against reignition and heat reduction. Multipurpose Dry Chemical Powder (ABC) is effective on Class A (carbonaceous) fire, Class B (flammable liquid) fire and Class C (flammable gas) fire. It is also suitable for use on live electrical fires.
<b>Monnex Powder</b>	<b>Monnex powder</b> is based on potassium bicarbonate-urea complex. Monnex is particularly effective against fire involving alcohols, ketones and esters, which are more difficult for conventional fire fighting agents. Monnex Powder is recommended for high risk situation and should be used when rapid knockdown is required on Class B and C fires. Monnex is particularly suitable for use in refineries, petrochemical complexes and other high hazard areas.
<b>Water</b>	<b>Water</b> , the most commonly used fire extinguishant for Class A fire involving carbonaceous materials such as wood, textiles and paper by cooling the fire and removing the heat needed for combustion.
<b>Foam (AFFF)</b>	<b>Filmfoams (AFFF)</b> are synthetic aqueous film forming foam concentrate consisting of fluorocarbon and hydrocarbon surfactants blended with various solvents, preservatives and stabilisers. The foam forms an aqueous film which helps to prevent the release of fuel vapours while the foam blanket from which the film forming liquid drains excludes oxygen from the fuel surface, extinguishing the fire and preventing re-ignition. The water content of the foam provides a cooling effect. The film forming liquid, although heavier, floats on the surface of the fuel, due to its lower surface tension. Effective on B class hydrocarbon fuel fires such as oil, petroleum, aviation fuels, and is particularly suitable where fast fire knockdown is essential. It is compatible with all dry powders. Its excellent wetting characteristics make it useful in combating Class A fire as well.
<b>Carbon Dioxide (CO<sub>2</sub>)</b>	<b>Carbon Dioxide</b> is the ideal agent for use on Class B (flammable liquids) fires. It is non toxic, non conductive and non corrosive inert gas which works by smothering the flames and reducing the oxygen content of the air around fire. CO <sub>2</sub> is safe to use on live electrical fires.
<b>Wet Chemical</b>	<b>Wet Chemical</b> , an aqueous solution, is suitable for use on Class F fire, which involves cooking oils and fats. It reacts with the burning oil or fat forming a 'blanket' which rapidly knocks the flames out, cools the burning oil and chemically reacts to form a soap-free substance, sealing the surface and preventing re-ignition.

## SELECTION CHART FOR USE OF FIRE EXTINGUISHERS

Symbol	Class Of Fire	Descriptions	ABC Powder	BC Powder	Monnex Powder	Water Spray Nozzle	Spray Foam	Foam (Branchpipe)	CO <sub>2</sub>	Wet Chemical
	A	Solid materials	✓			✓	✓	✓		✓
	B	Liquids or liquefiable solids	✓	✓	✓		✓	✓	✓	
	C	Gases	✓	✓	✓					
	E	Electrical Equipment	✓	✓	✓	*	*		✓	
	F	Cooking oil								✓

\* Safe if in Accidental Contact with Live Electrical Equipment. Complies with Electrical Conductivity Test BS EN 3-7, Clause 9 Annex C.

## Cartridge Operated Type

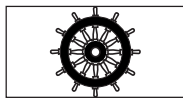
# ABC Dry Powder and Monnex Powder Portable Fire Extinguishers



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EED-4c

EED-6c

EED-9c

EED-12c

EED-12cMX

Model	EED-4c	EED-6c	EED-9c	EED-12c	EED-12cMX
Type	Cartridge Operated Type				
Extinguishant	ABC Dry Powder				Monnex Powder
Capacity	4 kg	6 kg	9 kg	12 kg	9 kg
CO <sub>2</sub> Gas Cartridge	75 g	110 g	150 g	225 g	225 g
Valve / Headcap	CE Marked Controllable Chrome Plated Brass Headcap with Safety Relief Valve				
Body Diameter	158 mm	158 mm	178 mm	188 mm	188 mm
Overall Height	480 mm	535 mm	595 mm	710 mm	710 mm
Approx Full Weight	7.9 kg	10.4 kg	14.1 kg	19.1 kg	16.1 kg
Working Temp. Range	-20°C to + 60°C				
Working Pressure	12 Bar				
Test Pressure	25 Bar				
Burst Pressure	Exceeds 69 Bar				
Approx Discharge Range	2-3 m	5 m	7 m	7 m	7 m
Approx Discharge Time	20 sec	20 sec	22 sec	31 sec	19 sec
Fire Rating	21A : 89B	27A:183B	34A:233B	43A:233B	233B
Fire Class	ABC + Electrical				BC + Electrical
Coating (Internal)	Stoving Epoxy Primer				
Paint Finishing	RAL 3000 Flame Red Polyester Powder Coating				
Mounting	Metal 'T' Wall Bracket				
Manufactured & Certified to	BS EN 3-7: 2004 + A1: 2007, BS EN 3-8: 2006 and BS EN 3-10:2009				

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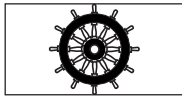
# Cartridge Operated Type Water, Foam & Wet Chemical Portable Fire Extinguishers



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EEW-9cs

EEF-9c

EEF-9cs

EEK-6cs

EEK-9cs

Model	EEW-6cs	EEW-9cs	EEF-6cs	EEF-9c	EEF-9cs	EEK-6cs	EEK-9cs
Type	Cartridge Operated Type						
Extinguishant	Water		AFFF Foam (Premix)			Wet Chemical	
Capacity	6 litres	9 litres	6 litres	9 litres	9 litres	6 Litres	9 Litres
CO <sub>2</sub> Gas Cartridge	55 g	55 g	55 g	75 g	75 g	35 g	55 g
Valve / Headcap	CE Marked Controllable Chrome Plated Brass Headcap with Safety Relief Valve						
Body Diameter	158 mm	178 mm	158 mm	178 mm	178 mm	158 mm	178 mm
Overall Height	585 mm	630 mm	585 mm	630 mm	630 mm	585 mm	630 mm
Approx Full Weight	11.1 kg	14.6 kg	11.1 kg	14.9 kg	14.9 kg	13.4 kg	18.7 kg
Working Temp. Range	+5°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	4 m	6 m	4 m	6 m	6 m	>2 Metres	
Approx Discharge Time	38 sec	49 sec	58 sec	42 sec	88 sec	70 sec	84 sec
Fire Rating	13A	21A	13A:144B	13A:183B	21A:183B	8A : 75F	13A : 75F
Fire Class	A + Electrical Safety Test*		A,B + Electrical Safety Test*	A,B	A,B + Electrical Safety Test	A,F + Electrical Safety Test	
Coating (Internal)	Thermoplastic Powder Coating (PPA)						
Paint Finishing	RAL 3000 Flame Red Polyester Powder Coating						
Mounting	Metal 'T' Wall Bracket						
Manufactured & Certified to	BS EN 3-7: 2004 + A1: 2007, BS EN 3-8: 2006 and BS EN 3-10:2009						

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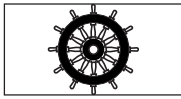
# Stored Pressure Type ABC Dry Powder Portable Fire Extinguishers



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**EED-1      EED-2      EED-2h      EED-3      EED-4N      EED-6      EED-9      EED-12**

Model	EED-1	EED-2	EED-2h	EED-3	EED-4N	EED-6	EED-9	EED-12
Type	Stored Pressure Type							
Extinguishant	ABC Dry Powder							
Capacity	1 kg	2 kg	2 kg	3 kg	4 kg	6 kg	9 kg	12 kg
Propellant	Dry Nitrogen (N <sub>2</sub> )							
Valve	Controllable Chrome Plated Brass Valve with Pressure Indicator							
Body Diameter	80 mm	108 mm	108 mm	130 mm	158 mm	158 mm	178 mm	188 mm
Overall Height	325 mm	370 mm	410 mm	425 mm	475 mm	525 mm	587 mm	695 mm
Approx Full Weight	2.0 kg	3.5 kg	3.6 kg	5.2 kg	7.0 kg	9.4 kg	13.2 kg	17.8 kg
Working Temp. Range	- 20°C to + 60°C							
Working Pressure	12 Bar							
Test Pressure	25 Bar							
Burst Pressure	Exceeds 69 Bar							
Approx Discharge Range	2 m	2.5 m	2.5 m	4 m	5 m	5 m	7 m	7 m
Approx Discharge Time	11 sec	16 sec	11 sec	12 sec	20 sec	16 sec	18 sec	30 sec
Fire Rating	5A:34B	13A:55B	13A:70B	13A:89B	21A:113B	43A:233B	43A:233B	43A:233B
Fire Class	ABC + Electrical							
Coating (Internal)	Stoving Epoxy Primer							
Paint Finishing	RAL 3000 Flame Red Polyester Powder Coating							
Mounting	Plastic Vehicle Bracket*				Metal 'L' Wall Bracket			
Manufactured & Tested in Accordance to	BS EN 3-7: 2004 + A1: 2007, BS EN 3-8: 2006 and BS EN 3-10:2009							

\*Wire vehicle bracket available on request

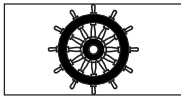
# Stored Pressure Type Water, Foam & Wet Chemical Portable Fire Extinguishers



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EEF-2s

EEF-6s

EEF-9s

EEW-9s

EEK-2s

EEK-6s

EEK-9s

Model	EEF-2s	EEF-6s	EEF-9s	EEW-6s	EEW-9s	EEK-2s	EEK-6s	EEK-9s
Type	Stored Pressure Type							
Extinguishant	AFFF Foam (Premix)			Water		Wet Chemical		
Capacity	2 litres	6 litres	9 litres	6 litres	9 litres	2 litres	6 litres	9 litres
Propellant	Nitrogen (N <sub>2</sub> )							
Valve	Controllable Chrome Plated Brass Valve with Pressure Indicator							
Body Diameter	108 mm	158 mm	178 mm	158 mm	178 mm	108 mm	158 mm	178 mm
Overall Height	398 mm	575 mm	625 mm	575 mm	625 mm	398 mm	575 mm	625 mm
Approx Full Weight	3.7 kg	10.0 kg	13.8 kg	10.0 kg	13.7 kg	4.6 kg	13.1 kg	18.5 kg
Working Temp. Range	+ 5°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	1.5 m	4 m	6 m	4 m	6 m	>2 Metres		
Approx Discharge Time	15 sec	52 sec	57 sec	41 sec	75 sec	14 sec	55 sec	90 sec
Fire Rating	5A:34B	13A:144B	21A:183B	13A	21A	5A : 5F	8A : 75F	13A : 75F
Fire Class	A, B + Electrical Safety Test*			A + Electrical Safety Test*				
Cylinder Lining	Performance Polymer Alloy					Thermoplastic Powder Coating (PPA)		
Paint Finishing	RAL 3000 Flame Red Polyester Powder Coating							
Mounting	Wire Vehicle Bracket	Metal 'L' Wall Bracket				Wire Vehicle Bracket	Metal 'L' Wall Bracket	
Manufactured & Certified to	BS EN 3-7: 2004 + A1: 2007, BS EN 3-8: 2006 and BS EN 3-10:2009							

\*Safe if in Accidental Contact with Live Electrical Equipment. Complies with Electrical Conductivity Test BS EN 3-7, Clause 9 Annex C.

# Stored Pressure Type Carbon Dioxide Portable Fire Extinguishers



EEC-2e2

EEC-5e1

EEC-5A1e1

EEC-2A1e2

Model	EEC-2e2	EEC-5e1	EEC-2A1e2	EEC-5A1e1
Body Material	Cromoly Steel		Aluminium Alloy	
Extinguishant	Carbon Dioxide			
Capacity	2 kg	5 kg	2 kg	5 kg
Cylinder Diameter	105 mm	138 mm	117 mm	152 mm
Overall Height	567 mm	747 mm	502 mm	664 mm
Approx Full Weight	6.7 kg	14.8 kg	5.1 kg	12.1 kg
Working Temp. Range	- 20°C to + 60°C			
Working Pressure (20°C)	56 Bar			
Test Pressure	250 Bar		212 Bar	
Safety Disc Burst Pressure	180 - 200 Bar			
Approx Discharge Range	3 m			
Approx Discharge Time	13 sec	23 sec	14 sec	18 sec
Fire Rating	34B	55B	34B	55B
Fire Class	B, C + Electrical			
Cylinder Specification	BS 5045 Part 7		BS 5045 Part 8	
Discharge Assembly	Swivel Horn	Hose & Fish Tail Horn	Swivel Horn	Hose & Fish Tail Horn
Mounting	Metal 'L' Wall Bracket			
Operating Head / Valve	CE Marked Controllable Chrome Plated Brass Valve			
Paint Finishing	RAL 3000 Flame Red Polyester Powder Coating			
Manufactured & Certified to	BS EN 3-7: 2004 + A1: 2007, BS EN 3-9: 2006 and BS EN 3-10: 2009			

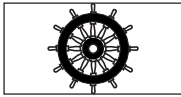
# Stored Pressure / Cartridge Operated Type ABC Dry Powder Mobile Fire Extinguishers



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MPM-25

MPM-50

MPG-25

MPG-50

Model	MPM-25	MPM-50	MPG-25	MPG-50
Type	Stored Pressure		Gas Cartridge	
Capacity	25 kg	50 kg	25 kg	50 kg
Extinguishant	ABC Dry powder			
Propellant	Nitrogen (N <sub>2</sub> )		Carbon Dioxide (CO <sub>2</sub> )	
Valve / Head cap	Brass Valve with Pressure Gauge		Brass Head Cap with Safety Relief Valve	
CO <sub>2</sub> Cartridge	N/A		550 g	1 kg
Discharge Hose	13mm x 6m	16mm x 6m	13mm x 6m	16mm x 6m**
Wheel Diameter	300mm			
Frame Work	Steel Pipe / Flat Bar			
Cylinder Material	Steel			
Body Diameter	250 mm	386 mm	250 mm	386 mm
Overall Height	850 mm	970 mm	850 mm	970 mm
Width	460 mm	570 mm	460 mm	570 mm
Depth	545 mm	645 mm	580 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
Approx Temperature Range	-20°C to 60°C			
Working Pressure (20°C)	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 / Class	A I B C	A I I B C	A I B C	A I I B C
Paint Finishing	Signal Red (RAL 3000) Epoxy Polyester Powder Coating			
Manufactured & Certified to	BS EN 1866 : 2007			

\*\* 10m and 20m hose length available on request

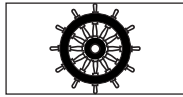
# Stored Pressure / Cartridge Operated Type AFFF Foam Mobile Fire Extinguishers



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MFM-45

MFM-135

MFG-135

MFG-45

Model	MFM-45	MFM-135	MFG-45	MFG-135	MFG-150
Type	Stored Pressure Type		Gas Cartridge Type		
Capacity	45 litres	135 litres	45 litres	135 litres	150 litres
Extinguishant	AFFF Foam (Premix)				
Propellant	Nitrogen (N <sub>2</sub> )		Carbon Dioxide (CO <sub>2</sub> )		
Valve / Headcap	Brass Valve with Pressure Gauge		Brass Head Cap with Safety Relief Valve		
CO <sub>2</sub> Cartridge	N/A		1 kg	2 kg	2 kg
Discharge Hose	16 mm x 6 m	19 mm x 6 m	16 mm x 6 m**	19 mm x 6 m**	19 mm x 6 m
Wheel Diameter	300 mm	350 mm	300 mm	350 mm	350 mm
Frame Work	Steel Pipe / Flat Bar				
Cylinder Material	Steel				
Body Diameter	386 mm	454 mm	386 mm	454 mm	454 mm
Overall Height	980 mm	1395 mm	980 mm	1395 mm	1450 mm
Width	565 mm	685 mm	565 mm	685 mm	685 mm
Depth	670 mm	930 mm	670 mm	930 mm	930 mm
Approx Empty Weight	46 kg	101 kg	52 kg	108 kg	118 kg
Approx Full Weight	91 kg	236 kg	97 kg	243 kg	268 kg
Working Temp. range	+ 5°C to + 60°C				
Working Pressure	12 Bar				
Test Pressure	21.5 Bar	22.5 Bar	21.5 Bar	22.5 Bar	22.5 Bar
Safety Valve Lift Pressure	17 ~ 21 Bar		18 ~ 20 Bar		
Approx Discharge Time	109 sec	206 sec	162 sec	282 sec	368 sec
Approx Discharge Range	10 - 12 m	11 - 13 m	10 - 12 m	11 - 13 m	11 - 13 m
Fire Rating / Class	A IIB	A IVB	A IIB	A IVB	A IVB
Coating (Internal)	High Build Epoxy Tank Coating				
Paint Finishing	RAL 3000 Flame Red Polyester Powder Coating				
Manufactured & Certified to	BS EN 1866 : 2007				

\*\* 20 meter hose length available on request.



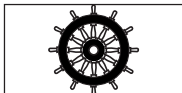
# Stored Pressure Type Carbon Dioxide Mobile Fire Extinguishers



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**MCO-10**



**MCO-10T**



**MCO-20**

Model	MCO-10	MCO-20	MCO-10T
Capacity	10 kg	20 kg	2 x 10 kg
Style	Single		Twin
Extinguishant	Carbon Dioxide (CO <sub>2</sub> )		
Operating Head	CE Marked Brass Screw Down Valve with Safety Relief Valve		
Cylinder Thread	1" BS 341		
Discharge Hose	High Pressure Hose		
Internal Diameter x Length	9.5mm x 6 m		
Discharge Horn	Plastic with On/Off Valve		
Cylinder Specification	EN1964 Part 1 TPED	EN1964 Part 1 TPED	EN1964 Part 1 TPED
- Diameter #	156 mm	204 mm	156 mm
- Nominal height	615 mm	815 mm	615 mm
Frame Work	Steel Pipe / Flat Bar		
Overall Height	1065 mm	1210 mm	1040 mm
Width	465 mm	565 mm	515 mm
Depth	860 mm	1260 mm	1050 mm
Approx Empty Weight	33 kg	80 kg	50 kg
Approx Full Weight	43 kg	100 kg	70 kg
Cylinder / Frame Finish	RAL 3000 Flame Red Polyester Powder Coating		
Wheel Diameter #	300 mm		
Working Temp. Range	- 20°C to + 60°C		
Working Pressure	56 Bar		
Cylinder Test Pressure	250 Bar		
Approx Discharge Time	53 sec	61 sec	83 sec
Approx Discharge Range	4 m		
Fire Rating / Class	70B C	89B C	89B C
Manufactured & Certified to	BS EN 1866 : 2007		

\* 30 meter hose length available on request

# Accessories Brackets



L Wall Bracket



T Wall Bracket



front view

back view

## Wall Brackets

	LWB	TWB
Material	Chromed Steel	
Suitable for	SPT Portable FE	COT Portable FE

## Compact Plastic Brackets

	CVB-1	CVB-2
Material	Plastic	
Suitable for	1kg FE	2kg FE



front view

back view



front view

back view

## Heavy Duty Brackets

	HDB-L	HDB-S
Body & Strap Material	Mild Steel	
Design Features	Quick Release Pull Pin and Lever	
Suitable for	4kg-12kg PFE	2.5kg-3kg PFE

## Wire Vehicle Brackets

	WVB-1K	WVB-2K	WVB-2L
Body Material	Mild Steel		
Strap Material	Stainless Steel		
Suitable for	1kg FE	2kg FE	2L FE



Type A

Type B

Type C

## Marine Brackets

	Body Material	Strap Material	Design Type	Suitable for
MB-6L-C	Mild Steel	Nylon	A	6L COT
MB-6K-C				6kg COT
MB-9L-C				9L COT
MB-9K-C				9kg COT
MB-12K-C				12kg COT
MB-3K-S			B	3kg SPT
MB-6L-S				6L SPT
MB-6K-S				6kg SPT
MB-2C-S				2kg CO2
MB-5C-S				5kg CO2
MB-9L-S			C	9L SPT
MB-9K-S				9kg SPT
MB-12K-S				12kg SPT
MB-6C-S				6.8kg CO2



**Gas Cartridge (TPED)**

	External Coating	Suitable for	
GP35	PVC	Portable Fire Extinguishers	EEK-6cs
GP55			EEK-9cs, EEW-9cs
GP75			EEF-9cs
GE75			EED-4c
GE110	Epoxy		EED-6c
GE150			EED-9c
GE225			EED-12c, EED-12cMX
GE550	Epoxy	Mobile Fire Extinguishers	MPG-25
GE1000			MFG-45, MFG-50
GE2000			MFG-135, MFG-150



**AFFF Compound Refills**

	Capacity	Suitable for
AFR-0054M	0.54L	EEF-9s, EEF-9c, EEF-9cs
AFR-0027L	2.7L	MFM-45, MFG-45
	2.7L x 3	MFM-135, MFG-135
AFR-0250L	25L	various usage
AFR-2000L	200L	various usage



**EP4X ABC Powder**

	EP4X
Apparent density	0.88kg / cu dm
Moisture content	Less than 0.25%
Packaging	6kg, 9kg, 12kg and 25kg

**Monnex Powder**

	MX
Apparent density	0.75kg / cu dm
Moisture content	Less than 0.25%
Packaging	25kg



**Valve Wrenches**

	U Wrench	UT Wrench	G Wrench
Material	Chromed Steel		
Suitable for	1kg-12kg SPT FE		4kg-12kg COT FE
Usage	The right tool to tighten & loosen operating valve from cylinder		
Torque Setting	No	Yes	No