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Where to Use?

An extinguisher is a critical device that is used during critical situations only. There is no chance for testing which will be tested and used at a time that's why the device must be reliable also which should be designed in such a way that it works till the last day of shelf life.

When it comes to application Fire equipment needs to be identifiable, easy to get hold of, and appropriate for the property it is intended to protect.

But good fire protection is about more than just having the right devices in the right places, also requires rigorous monitoring to ensure that it will perform effectively when needed.

Everyone should be familiar with the picture symbols which identify the types of fires on which they may be used listed below.

- ▶ The symbol diagonal red slashes indicate a potential danger if the extinguisher is used on that particular type of fire.
- ▶ The absence of a type symbol means only that the extinguisher is not recommended as particularly effective for that classification of fire.

			Suitable for Class B and Class C fires but not Class A
			Suitable for Class A fires but not Class B or Class C
			Suitable for Class A and Class B fires but not Class C

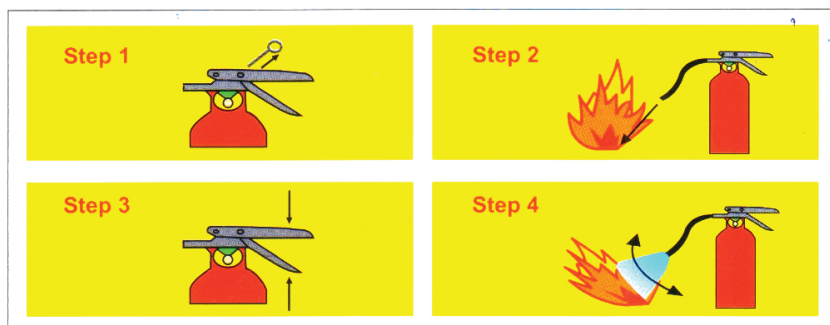
How to Use?

A-One provides you a valuable user manual that contains very much needed information that how to use, install, and maintenance of an extinguisher.

The Label affixed on the extinguisher body contains specific information to "HOW TO OPERATE" the particular extinguisher.

The label instruction will change accordingly size and type of extinguisher.

Everyone should be aware of Instructions provided on Extinguishers.





POWDER EXTINGUISHERS

A-ONE STORED PRESSURE Dry Powder fire extinguishers are characterized by their high performance, simple method of operation and rapid fire knock down capability. They are suitable for tackling fires involving freely burning materials, petrol & oils, gas & electrical equipment. They are ideal for vehicle & marine risks. A-One powder extinguishers contain high performance powder to achieve high Fire Rating.

FEATURES

- Mono Ammonium Phosphate-based dry chemical powder conforms to 14609 and is capable of fighting class A, B, C & Electrical fires.
- BIS Approved (IS 15683)
- CE Certified (Marked On-Demand)
- High-quality pure polyester powder coating.
- Controlled discharge.
- Brass nickel-plated head valve with simple squeeze operation.
- Unique gauge testing system (UGTS)
- Easy & more economical to maintain & service
- Rechargeable and easy to service
- Large loop Stainless steel Pull pin
- High-quality EPDM Rubber braided hose is far more flexible than the normal rubber used in hose pipe and also far less prone to cracks.

PERFORMANCE DATA

Model	KFA 1 KFA 1 - 90%	KFA 2 KFA 2 - 90%	KFA 4 KFA 4 - 90%	KFA 6 KFA 6 - 90%	KFA 9 KFA 9 - 90%
Capacity	1 kg	2 kg	4 kg	6 kg	9 kg
Design	Nozzle	Nozzle	Hose & Nozzle	Hose & Nozzle	Hose & Nozzle
Fire Rating (MAP 50%)	88	88	2A : 218	3A : 218	3A : 218
Fire Rating (MAP 90%)	1A : 138	1A : 218	2A : 348*	3A : 558*	4A : 898
Height (Approx .)	325 mm	380 mm	490 mm	530 mm	575 mm
Diameter (Approx .)	86±10 mm	106±10 mm	140±10 mm	150±10 mm	180±10 mm
Average Discharge time	9 Sec.	14 Sec.	18 Sec.	24 Sec.	31 Sec.
Average Range of throw	2 m	2.5 m	3 m	5 m	6 m
Average % Discharge	92%	92%	94%	93%	93%
Operating Temperature	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C
Service Pressure (Ps)	15 bar	15 bar	15 bar	15 bar	15 bar
Max. Service Pressure (Pms)	17 bar.	17 bar.	17 bar.	17 bar.	17 bar.
Test Pressure	35 bar.	35 bar.	35 bar.	35 bar.	35 bar.
Expelling Agent	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)
Full Weight (Approx.)	2 kg.	3.4 kg.	6.6 kg.	8.9 kg.	13.3 kg.
Empty Weight (Approx.)	1 kg.	1.4 kg.	2.6 kg.	2.9 kg.	4.3 kg.
Shipping Weight (Approx.)	2.1 kg.	3.6 kg.	7.0 kg.	9.2 kg.	13.6 kg.
Packing Standard	"Inner- 13.75"X4.75"X4.75" Outer (5 in 1)- 16.5"X10"X10"	"Inner- 13.75"X4.75"X4.75" Outer (4 in 1)- 16.5"X10"X10"	2 in 1- 21"X6.75"X 14.10"	2 in 1- 21"X6.75"X14. 10"	1 in 1- 24.5"X8.0"X8.0"
Mounting Bracket	Vehicle/Wall bracket	Vehicle/Wall bracket	Wall Bracket	Wall Bracket	Wall Bracket
Approvals	BIS & CE	BIS & CE	BIS & CE	BIS & CE	BIS & CE



DuPont FE 36 CLEAN AGENT

A-ONE FE 36 clean agent extinguishers have effective extinguishing action, environmentally acceptable, and an excellent alternative for HALON 1211. Clean Agent HFC-236fa is non-corrosive, electrically non-conductive, and free of residue. It is ideally suited for protecting high-value equipment.

FEATURES

- FE 36(HFC-236fa) Based Extinguishing Agent capable of fighting class A, B, C & Electrical fire.
- BIS Approved (IS 15683) & CE certified (Marked On-Demand)
- High-Performance Extinguishing agent environmentally safe with ZERO ODP
- FE 36 (HFC - 236fa) is an electrically Non-Conductive & low in toxicity Protect data in the process, reduces equipment damage, facilitate fast return to service.
- High-Quality pure polyester powder coating
- Unique gauge testing system(UGTS)
- High-Quality EPDM Rubber Braided Hose is far more flexible than the normal rubber used in hose pipe and also far less prone to cracks
- Maximum visibility during Discharge.
- Large loop Stainless steel Pull pin.
- No Electrical Conductivity Back to the operator
- No Thermal or Static Shock

Properties of DuPont FE 36 Clean Agent Chemical Formula : 1,1,1,3,3,3 Hexa Fluoro Propane

Molecular Weight	152
Boiling point	-14 °C
Freezing Point	-103 °C
Maximum Fill Density	1.20 gm/ml.
Specific gravity	1.34 gm/ml.
Scheduled Production Phase out per Montreal Protocol	None

Comparisons between Clean Agents

Extinguishing Agent	HALON 1211	HALOTRON I	A-One FE-36
Chemical Family	BCFC	HCFC	HFC 236 fa
"Acute Toxicity: Cardiotox LOAEL (Lowest Observable Adverse Effects Level) A higher % is less toxic."	1%	2%	15%
Acute Toxicity: Cardiotox NOAEL (No Observable Adverse Effects Level) A higher % is less toxic.	0.50%	1%	10%
Extinguishing Concentration,Cup Burner, n-heptane	4-5%	6-7%	5.90%
Ozone Depletion Potential-ODP (CFC-11 = 1.0)	4	0.014	0
Global Warming Potential -GWP	N/A	Low	Moderate
Atmospheric Lifetime	Low	Low	Moderate

PERFORMANCE DATA

Model	KCA 2	KCA	KCA 6
Capacity	2 kg	4 kg	6 kg
Design	Hose & Nozzle	Hose & Nozzle	Hose & Nozzle
Fire Rating	8B	1A : 13B	1A :21B
Height (Approx.)	380 mm	490 mm	530 mm
Diameter (Approx.)	106±10 mm	140±10 mm	150±10 mm
Average Discharge time	12.5 Sec.	14 Sec.	22 Sec.
Average Range of throw	3 m	3.5 m	4m.
Average % Discharge	96%	97%	96%
Operating Temperature	-20 °C to +55 °C	-20 °C to +55 °C	+5 °C to +55 °C
Service Pressure (Ps)	9 bar	9 bar	9 bar
Max. Service Pressure (Pms)	13 bar.	13 bar.	13 bar.
Test Pressure	35 bar.	35 bar.	35 bar.
Empty Weight (Approx.)	1.6 kg.	2.7 kg.	2.9 kg.
Shipping Weight (Approx.)	3.8 kg.	7 kg.	9.2 kg.
Packing Standard	Inner- 13.75"X4.75"X4.75" Outer (4 in 1)- 16.5"X10"X10"	2 in 1-21"X6.75"X14.10"	2 in 1-21"X6.75"X14.10"
Mounting Bracket	Vehicle/Wall bracket	Wall Bracket	Wall Bracket
Approvals	BIS & CE	BIS & CE	BIS & CE



DuPont FE 36 CLEAN AGENT(SS Body)

A-ONE FE 36 clean agent extinguishers have effective extinguishing action, environmentally acceptable, and an excellent alternative for HALON 1211. Clean Agent HFC-236fa is non-corrosive, electrically non-conductive, and free of residue. It is ideally suited for protecting high-value equipment

FEATURES

- Smooth & Polished Stainless Steel body.
- FE 36(HFC-236fa) Based Extinguishing Agent capable of fighting class A, B, C & Electrical fire.
- BIS Approved (IS 15683) & CE certified.
- High Performance Extinguishing agent environmentally safe with ZERO ODP
- FE 36 (HFC - 236fa) is an electrically Non Conductive & low in toxicity
- Protect data in process. reduces equipment damage, facilitate fast return to service.
- Smooth finish & also available with high quality PP powder coating
- Unique gauge testing system(UGTS)
- High Quality Epdm Rubber Braided Hose is far more flexible than the normal rubber used in hose pipe and also far less prone to cracks

FE 36 Clean Agent Approvals :

- Du-Pont FE - 36 Fire Extinguishant is UL Approved Du-Pont FE - 36 is EPA SNAP Approved Du-Pont FE - 36 is EPA SNAP Approved

Properties of DuPont FE 36 Clean Agent Chemical Formula : 1,1,1,3,3,3 Hexa Fluoro Propane

Molecular Weight	152
Boiling point	-14 c
Freezing Point	-103 c
Maximum Fill Density	1.20 gm/ml.
Specific gravity	1.34 gm/ml.
Scheduled Production Phase out per Montreal Protocol	None

Comparisons between Clean Agents

Extinguishing Agent	HALON 1211	HALOTRON I	A-One FE-36
Chemical Family	BCFC	HCFC	HFC 236 fa
"Acute Toxicity: Cardiotox LOAEL (Lowest Observable Adverse Effects Level) A higher % is less toxic."	1%	2%	15%
Acute Toxicity: Cardiotox NOAEL (No Observable Adverse Effects Level) A higher % is less toxic.	0.50%	1%	10%
Extinguishing Concentration,Cup Burner, n-heptane	4-5%	6-7%	5.90%
Ozone Depletion Potential-ODP (CFC-11 = 1.0)	4	0.014	0
Global Warming Potential -GWP	N/A	Low	Moderate
Atmospheric Lifetime	Low	Low	Moderate

PERFORMANCE DATA

Model	KCA 2	KCA 4
Capacity	2 kg	4 kg
Design	Hose & Nozzle	Hose & Nozzle
Fire Rating	1A:21B	1A:21B
Height (Approx.)	440 mm.	500 mm.
Diameter	100 +/- 10 mm.	140 +/- 10 mm.
Average Discharge time	12 Sec.	14 Sec.
Average Range of throw	3 m	4 m.
Average % Discharge	96%	97%
Operating Temperature	-30 °C to +55 °C	-30 °C to +55 °C
Service Pressure (Ps)	9 bar	9 bar
Max. Service Pressure (Pms)	13 bar.	13 bar.
Test Pressure	35 bar.	35 bar.
Expelling Agent	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)
Full Weight (Approx.)	3.4 kg.	6.2 kg.
Empty Weight (Approx.)	1.4 kg.	2.2 kg.
Shipping Weight (Approx.)	3.6 kg.	6.4 kg.
Packing Standard	4 in 1-12.2"X12.2"X17.5"	2 in 1-21"X6.75"X14, 10"



CARBON DIOXIDE TYPE

A-ONE GAS fire extinguishers are characterized by their high performance for fires involving an electrical risk like computers, office equipment and generators etc. CO₂ is non-conductive, clean and safe, ensuring minimal damage to electrical equipment and furnishings.

Available in squeeze grip as well as in wheel type.

Suitable for Class B, Class C & Electrical fire risks

FEATURES

- Carbon Di Oxide is Colorless, Odorless, Non Toxic and provides rapid knockdown of industrial fires.
- BIS Approved (IS: 15683)
- CE Certified (On Request)
- The body is made up of Seamless Manganese Steel as per IS 7285 and CCOE/PESO approved
- High-quality Enamel Paint
- Controlled discharge
- Brass head valve with a simple squeeze or wheel operations provided with pressure relief disc.
- Rechargeable and easy to service
- Non-conductive agent for electrical use without risk to the operator
- CO₂ gas disappears quickly leaving no residue
- Swivel horn for 2 & 3 kg with no freeze burns, with greater directional control of CO₂ discharge through horn rotation feature.

PERFORMANCE DATA

Model	KFC 2	KFC 3	KFC 4.5
Capacity	6.5 kg.	9 kg.	22.5 kg.
Design	Hose & Horn	Hose & Horn	Hose & Horn
Height (Approx.)	960 mm.	1250 mm.	1155 mm.
Diameter (Approx.)	140 ±10 mm.	140 ±10 mm.	232 ±10 mm.
Average Discharge time	10 -20 Sec.	15 -36 Sec.	20 -60 Sec.
Average Range of throw	10 m.	10 m.	10 mm.
Minimum % Discharge	95%	95%	95%
Operating Temperature	-30 °c to +55 °c	-30 °c to +55 °c	-30 °c to +55 °c
Service Pressure (Ps)	60 bar.	60 bar.	60 bar.
Test Pressure	250 bar.	250 bar.	250 bar.
Full Weight (Approx.)	21 or 23 kg.	29 or 32 kg.	66 or 69 kg.
Empty Weight (Approx.)	14.5 or 16.5 kg.	20 or 23 kg.	43.5 or 46.5 kg.
Shipping Weight (Approx.)	22 or 24 kg.	30 or 33 kg.	67 or 70 kg.
Packing Standard	Jute Bags	Jute Bags	Jute Bags
Approvals	BIS & CE	BIS & CE	BIS & CE



FOAM & WATER TYPE STORED PRESSURE

A-One Stored Pressure Foam & Water fire extinguishers are ideal for fires involving volatile liquids and freely burning materials such as paper, cloth, wood and furniture.

Note : Mechanical Foam & Water extinguishers are not suitable for fires involving electrical risk.

Water Type Suitable

Foam Type Suitable for for Class A
Fire Risk Class A and Class B Fire Risk

FEATURES

- Aqueous Film Forming Foam (AFFF) is capable of fighting Class A and Class B fires.
- Water types are capable of fighting class A fire effectively.
- BIS Approved (IS 15683)
- CE Certified (Marked On Demand)
- High quality pure polyester powder coating
- Spray nozzle to provide high fire rating
- Controlled discharge
- Brass nickel plated head valve with simple squeeze operation
- Unique gauge testing system (UGTS)
- Rechargeable and easy to service
- High quality EPDM Rubber braided hose is far more flexible than the normal rubber used in hose pipe and also far less prone to cracks.
- Large loop Stainless steel pull Pin.

PERFORMANCE DATA

Model	KFM6 -S	KFM9 -S	KFM6 -S	KFM9 -S	KFA 9 KFA 9 - 90%
Capacity	6 Ltr.	9 Ltr.	6 Ltr.	9 Ltr.	9 kg
Design	Hose & Air aspirated Nozzle	Hose & Air aspirated Nozzle	Hose & Nozzle	Hose & Nozzle	Hose & Nozzle
Fire Rating	*1A:13B	2A:21B	*2A	2A	3A : 218
Height (Approx.)	530 mm.	575 mm.	530 mm.	575 mm.	4A : 898
Diameter (Approx.)	150±10 mm.	180±10 mm.	150±10 mm.	180±10 mm.	575 mm
Average Discharge time	22 Sec.	35 Sec.	22 Sec.	35 Sec.	180±10 mm
Average Range of throw	5 m.	7 m.	5 m.	7 m.	31 Sec.
Average % Discharge	96%	97%	96%	97%	6 m
Operating Temperature	+5 °C to +55 °C	+5 °C to +55 °C	+5 °C to +55 °C	+5 °C to +55 °C	93%
Expansion Space (Ps)	14 kg/cm2.	14 kg/cm2.	14 kg/cm2.	14 kg/cm2.	-30 °C to +55 °C
Test Pressure	30 kg/cm2 .	30 kg/cm2 .	30 kg/cm2 .	30 kg/cm2 .	15 bar
Expelling Agent	C02 Gas.	C02 Gas.	C02 Gas.	C02 Gas.	17 bar.
Full Weight (Approx.)	8 kg.	12kg.	8 kg.	12kg.	35 bar.
Empty Weight (Approx.)	2.9kg.	4.3 kg.	2.9kg.	4.3 kg.	Nitrogen (UHP Grade)
Shipping Weight (Approx.)	8.2 kg.	12.3 kg.	8.2 kg.	12.3 kg.	13.3 kg.
Packing Standard	2 in 1- 22.5"X6.75"X 14.10"	1 in 1- 24.75"X8"X 8"	2 in 1- 22.5"X6.75"X 14.10"	1 in 1- 24.75"X8"X 8"	4.3 kg.
Approvals	Under Approval	BIS & CE	Under Approval	BIS & CE	13.6 kg.



FOAM & WATER TYPE STORED PRESSURE (SS BODY)

A-ONE Stored Pressure Foam & Water extinguishers are ideal for fires involving volatile liquids and freely burning materials such as paper, cloth, wood and furniture.

Note : Mechanical Foam & Water extinguishers are not suitable for fires involving electrical risk.

Water Type Suitable for
Class A Fire Risk

Foam Type Suitable for Class A and
Class B Fire Risk

FEATURES

- Smooth & Polished Stainless Steel body.
- AFFF Aqueous Film Forming Foam Agent capable of fighting class A, B fire & Water capable of fighting class A fire.
- CE Certified
- Smooth finish & also available with high quality PP powder coating.
- Spray nozzle to provide high fire rating
- Choice of capacity 6 Ltrs. & 9 Ltrs.
- Controlled discharge.
- Brass nickel plated head valve with simple squeeze operation.
- Unique gauge testing system (UGTS).
- Rechargeable and easy to service.
- High quality EPDM Rubber braided hose is far more flexible than the normal rubber used in hose pipe and also far less prone to cracks.

PERFORMANCE DATA

Type	Mechanical Foam	Mechanical Foam	Water CO2	Water CO2
Model	KFMSS6-S	KFMSS9-S	KFMSS6-S	KFMSS9-S
Capacity	6 Ltr	9 Ltr	6 Ltr	9 Ltr
Design	Hose & Special Nozzle	Hose & Special Nozzle	Hose & Special Nozzle	Hose & Special Nozzle
Fire Rating	1A:13B	2A:21B	2A	2A
Height (Approx.)	550 mm.	645 mm.	550 mm.	645 mm.
Diameter (Approx.)	162 ±10 mm.	180 ±10 mm.	162 ±10 mm.	180 ±10 mm.
Average Discharge time	22 Sec. (Min.)	35 Sec. (Min.)	22 Sec. (Min.)	35 Sec. (Min.)
Average Range of throw	5 m. (Min.)	7 m. (Min.)	5 m. (Min.)	7 m. (Min.)
Average % Discharge	98%	98%	99%	99%
Operating Temperature	+5 °C to +55 °C	+5 °C to +55 °C	+5 °C to +55 °C	+5 °C to +55 °C
Service Pressure (Ps)	15 bar.	15 bar.	15 bar.	15 bar.
Max. Service Pressure (Pms)	17 bar.	17 bar.	17 bar.	17 bar.
Test Pressure	35 bar.	35 bar.	35 bar.	35 bar.
Expelling Agent	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)
Full Weight (Approx.)	8 kg	12 kg.	8 kg.	12 kg.
Empty Weight (Approx.)	2.9 kg.	4.3 kg.	2.9 kg.	4.3 kg.
Shipping Weight (Approx.)	8.2 kg.	12.3 kg.	8.2 kg.	12.3 kg.
Mounting Bracket	Wall bracket	Wall bracket	Wall bracket	Wall bracket
Approvals	CE	CE	CE	CE

FOAM & WATER CO, CARTRIDGE TYPE

A-ONE Cartridge operated Foam fire extinguishers are ideal for fires involving volatile liquids and freely burning materials such as paper, cloth, wood and furniture.

Note : Mechanical Foam & Water extinguishers are not suitable for fires involving electrical risk.

Water Type Suitable

Foam Type Suitable for for Class A
Fire Risk Class A and Class B Fire Risk

FEATURES

- Aqueous Film Forming Foam (AFFF) is capable of fighting Class A and Class B fires.
- Water types are capable of fighting class A fire effectively.
- BIS Approved (IS 15683)
- CE Certified (Marked On Demand)
- High quality pure polyester powder coating
- Spray nozzle to provide high fire rating
- Controlled discharge
- Brass nickel plated head valve with simple squeeze operation
- Unique gauge testing system (UGTS)
- Rechargeable and easy to service
- High quality EPDM Rubber braided hose is far more flexible than the normal rubber used in hose pipe and also far less prone to cracks.
- Large loop Stainless steel pull Pin.

PERFORMANCE DATA

MODEL	KFM6 -S	KFM9 -S	KFM6 -S	KFM9 -S
Capacity	6 Ltr.	9 Ltr.	6 Ltr.	9 Ltr.
Design	Hose & Air aspirated Nozzle	Hose & Air aspirated Nozzle	Hose & Nozzle	Hose & Nozzle
Fire Rating	*1A:13B	2A:21B	*2A	3A
Height (Approx.)	530 mm.	575 mm.	530 mm.	575 mm.
Diameter (Approx.)	150±10 mm.	180±10 mm.	150±10 mm.	180±10 mm.
Average Discharge time	22 Sec.	35 Sec.	22 Sec.	35 Sec.
Average Range of throw	5 m.	7 m.	5 m.	7 m.
Average % Discharge	96%	97%	96%	97%
Operating Temperature	+5 °C to +55 °C	+5 °C to +55 °C	+5 °C to +55 °C	+5 °C to +55 °C
Expansion Space (Ps)	14 kg/cm2.	14 kg/cm2.	14 kg/cm2.	14 kg/cm2.
Test Pressure	30 kg/cm2 .	30 kg/cm2 .	30 kg/cm2 .	30 kg/cm2 .
Expelling Agent	C02 Gas.	C02 Gas.	C02 Gas.	C02 Gas.
Full Weight (Approx.)	9 kg.	13kg.	9 kg.	13kg.
Empty Weight (Approx.)	3.9kg.	5.3 kg.	3.9kg.	5.3 kg.
Shipping Weight (Approx.)	9.3 kg.	13.5 kg.	9.3 kg.	13.5 kg.
Packing Standard	2 in 1- 22.5"X6.75"X 14.10"	1 in 1- 24.75"X8"X 8"	2 in 1- 22.5"X6.75"X 14.10"	2 in 1- 24.75"X15.3"X 8"
Mounting Bracket	Wall Bracket	Wall Bracket	Wall Bracket	Wall Bracket
Approvals	Under Approval	BIS & CE	Under Approval	BIS & CE



K CLASS KITCHEN FIRE EXTINGUISHERS

Class K Fires most often occur where cooking media such as cooking oils, greases and animal fats are used.

Kitchen Fire extinguishers are designed to put out such kinds of Fires safely and effectively in residential and commercial kitchens.

FEATURES

- Smooth & Polished Stainless Steel body..
- EPDM Rubber braided Discharge hoses for long life.
- Discharge Nozzle is made up of Aluminium and design allows a broad, dispersed discharge of agent that delivers a high volume, low-velocity delivery of wet chemical which does not cause the cooking oil to splash.

WHY CANT WE USE MULTIPURPOSE ABC FIRE EXTINGUISHERS RATHER KITCHEN FIRE EXTINGUISHERS?

- Changes in frying oils from animal fats to vegetable oils have reduced the ability of Multipurpose ABC Fire Extinguishers to extinguish many kitchen fires. As we know Vegetable oils have a much higher auto ignition temperature than animal fats because of this Heat breaks down the weaker foam layer created and re ignition takes place.
- In addition, these wet chemical agents pose minimal damage threat to hot appliances.

PRINCIPLE OF OPERATION

Class K Extinguishers work on the principle of saponification. Saponification takes place when alkaline mixture such as wet chemical (Mixture of potassium acetate, potassium citrate, or potassium carbonate) is applied to burning Oil or fat. the wet chemical combined with the fatty acid creates a soapy foam layer on the surface which holds in the vapors and steam and extinguishes the fire.

PERFORMANCE DATA

Model	KFK 6	KFK 9
Capacity	6 Ur.	9 Ur.
Design	Hose & Special Nozzle	Hose & Special Nozzle
Height (Approx .)	550 mm.	645 mm.
Diameter (Approx.)	162 ±10 mm.	180 ±10 mm.
Average Discharge time	13 Sec. (Min.)	13 Sec. (Min.)
Average Range of throw	2 m. (Min.)	2 m.(Min.)
Average % Discharge	94%	95%
Operating Temperature	+5 °C to +55 °C	+5 °C to +55 °C
Service Pressure (Ps)	9 bar.	9 bar.
Max. Service Pressure (Pms)	13 bar.	13 bar.
Test Pressure	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)
Full Weight (Approx.)	7.8 kg.	11.7 kg.
Empty Weight (Approx.)	2.7 kg.	4 kg.
Shipping Weight (Approx .)	7.9 kg.	11.8 kg.
Mounting Bracket	Wall bracket	Wall bracket
Approvals	CE	CE



D CLASS METAL FIRE EXTINGUISHERS

A-ONE make Class D Fire Extinguishers are designed to tackle flammable metal fires because Ordinary dry chemical powders are not suitable for fighting metal fires or even water & foam type too as metals react violently with metals.

PRINCIPLE OF OPERATION

- D type Fire Extinguishers contains a blended Sodium Chloride based dry powder extinguishing agent. Heat from the fire causes it to cake and form a crust excluding air and dissipating heat from burning metal.
- Metal fires involving magnesium, sodium, potassium, and sodium-potassium alloys can be successfully extinguished with Sodium Chloride based extinguishers.
- And Lithium, zirconium, uranium, titanium, and powdered aluminum fires can be controlled and extinguished with a unique Special extinguisher with an extinguishing agent as Ternary Eutactic Chloride (TEC).

FEATURES

- The specially designed applicator is particularly suited for fighting Class D fires. The design is such a way that the operator can stand away from extreme heat and toxic fumes. Other features are non-dispersing agent and easily controlled.
- EPDM Rubber braided Discharge hoses for long life.

APPLICABILITY OF TEC & SODIUM CHLORIDE POWDERS

SODIUM CHLORIDE	TEC POWDER
<ul style="list-style-type: none"> • Sodium Chloride works well for metal fires involving magnesium, sodium (spills and in depth) potassium alloys, uranium, powdered Aluminum and etc. • For lithium and its alloys it cannot work. 	<ul style="list-style-type: none"> • TEC works for all type of Metals including Lithium and its alloys too. • The unique composition of ternary eutectic chloride of alkali metals gives fast & effective fire knock down capability, which cannot be matched by ordinary mixtures of chloride salts or phosphate base powders.

PERFORMANCE DATA

Model	KFDC 6	KFDC 9	KFDC 25	KFDC 50	KFDC 50
Type	Stored Pressure	Stored Pressure	Trolley Mounted	Trolley Mounted	Trolley Mounted
Capacity	6 kg	9 kg	25 kg	50 kg	75 kg
Design	Hose & Applicator	Hose & Applicator	Hose & Applicator	Hose & Applicator	Hose & Applicator
Height	550 mm.	645 mm.	980 mm.	1020 mm.	1030 mm.
Diameter	150 ±10 mm.	180 ±10 mm.	300 ±10 mm.	400 ±10 mm.	400 ±10 mm.
Duration	25 sec.	30 sec.	45 sec.	75 sec.	90 sec.
% of Discharge	85%	85%	85%	85%	85%
Operating Temperature	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C
Service Pressure	15 bar	15 bar	15 bar	15 bar	15 bar
Max Service Pressure	17 bar	17 bar	17 bar	17 bar	17 bar
Test Pressure	35 bar	35 bar	35 bar	35 bar	35 bar
Expelling Agent	Nitrogen (UHP Grade)	Nitrogen (UHP Grade)	CO2 gas	CO2 gas	CO2 gas
CO2 Gas Cartridge/Cylinders	NA	NA	NA	NA	NA
Standard Bracket and Trolley	Wall bracket (also available with Trolley)			Trolley Mounted	

ABC TYPE MODULAR

A-ONE presents another modular type clean agent along with range of powder automatic fire extinguisher which keep guard and extinguishes fire quickly and efficiently especially in close places where fire could cause extensive damage if not detected and extinguished in time.



FEATURES

An Automatic Detection and Suppression System together in a single unit quite unlike any other system available in the market.

Automatic round-the-clock protection.

Available in individual units or as a Complete system.

Automatic, hence no human involvement, reducing the chances of injury and accidents to virtually zero.

Proves to be the most economical when compared and no surface relaying.

Reusable cylinder as it is not based on aerosol technology. Hence, most economical.

Non-Freezing & long-lasting.

Provides securities in case of emergencies and power failure without power backup.

Rechargeable and easy to service.

The extinguishing agent is also available with Mono Ammonium Phosphate Powder.

PERFORMANCE DATA

Size	Model No.	Propellant	Working Pressure	Testing Pressure	Area Protection	Volume Protection	Hanging vertical above risk	Operation time in seconds	Power
1	2	3	4	5	6	7	8	9	10
2kgs	KMP - 2	Nitrogen	7 to 15 kgs/cm ²	35 kgs/cm ²	1 to 1.5m ²	3m ³	1.5m	6-8'	ABC Powder
5kgs	KMP - 5	Nitrogen	7 to 15 kgs/cm ²	35 kgs/cm ²	2.5 to 3m ²	7m ³	1.5 to 2m	8-10'	ABC Powder
10kgs	KMP - 10	Nitrogen	7 to 15 kgs/cm ²	35 kgs/cm ²	4 to 5m ²	12m ³	1.75 to 2.25m	10-15'	ABC Powder
15kgs	KMP - 10	Nitrogen	7 to 15 kgs/cm ²	35 kgs/cm ²	5 to 6m ²	17m ³	2 to 3m	15-20'	ABC Powder

DuPont FE36 CLEAN AGENT MODULAR

A-ONE presents modular type FE36 clean agent gas along with a range of gaseous automatic fire extinguisher which keeps guard and extinguishes fire quickly and efficiently especially in close places where the fire could cause extensive damage if not detected and extinguished in time.



FEATURES

- Provides concentrated fire protection for vital equipment .
- Highly cost-effective compared to automatic fixed fire protection systems.
- It is a portable unit, easy to install and re-locate.
- Imported pressure gauge fitted for instant verification of functionality and reliability of every unit.
- Automatic and reliable security round the clock.
- Provides security in case of emergencies and power failure without power backup.
- Rechargeable and easy to service Clean Agent Extinguish is also available with agent HCFC or HFC base - EPA and snap approved.

Comparative Advantages of FE - 36

It does not contain d-limoene, which is a flammable non-volatile residue. Extinguishing agents containing d-limoene may leave a coating of d-limoene. In FE-36 variation between atmospheric temperature and boiling point is less, hence it does not leaves any condensed moisture as in the case of Coe.

FE 36 is not scheduled for phase-out as HCFC like Halotron I, which contains Chlorine. The B2 of FE 36 is 1.40C, hence is discharged as gas, unlike Halotron I, which comes out as a liquid. The Extinguishing concentration of FE 36 is well above NOAEL and LOAEL values. NO CL2 BR2 . NO PHASEOUT: MONTREAL PROTOCOL.

Properties of DuPont FE 36 Clean Agent Chemical Formula : 1,1,1,3,3,3 Hexa Fluoro Propane	
Molecular Weight	152
Boiling point	-1.4 °C
Freezing Point	-103 °C
Maximum Fill Density	1.20 gm/ml.
Specific gravity	"1.34 gm/ml.
Scheduled Production Phase out per Montreal Protocol	None

Comparison between Clean Agents			
Extinguishing Agent	HALON 1211	HALOTRON I	A-One FE-36
Chemical Family	BCFC	HCFC	HFC 236 fa
"Acute Toxicity: Cardiotox LOAEL (Lowest Observable Adverse Effects Level) A higher % is less toxic."	1%	2%	15%
Acute Toxicity: Cardiotox NOAEL (No Observable Adverse Effects Level) A higher % is less toxic.	0.50%	1%	10%
Extinguishing Concentration, Cup Burner, n-heptane	44-5%	6-7%	5.90%
Ozone Depletion Potential-ODP (CFC-11 = 1.0)	4	0.014	0
Global Warming Potential -GWP	N/A	Low	Moderate
Atmospheric Lifetime	Low	Low	Moderate

PERFORMANCE DATA

Size	Model No.	Propellant	Working Pressure	Testing Pressure	Area Protection	Volume Protection	Hanging vertical above risk	Operation time in seconds	Power
1	2	3	4	5	6	7	8	9	10
2kgs	KMP - 2	Nitrogen	7 to 15 kgs/cm2	35 kgs/cm2	1 to 1.5m2	3m3	1.5m	6-8'	Clean Gas
5kgs	KMP - 5	Nitrogen	7 to 15 kgs/cm2	35 kgs/cm2	2.5 to 3m2	7m3	1.5 to 2m	8-10'	Clean Gas
10kgs	KMP - 10	Nitrogen	7 to 15 kgs/cm2	35 kgs/cm2	4 to 5m2	12m3	1.75 to 2.25m	10-15'	Clean Gas
15kgs	KMP - 10	Nitrogen	7 to 15 kgs/cm2	35 kgs/cm2	5 to 6m2	17m3	2 to 3m	15-20'	Clean Gas

DCP TROLLEY MOUNTED



MODEL (SBC)	KFD 25	KFD 50	KFD 75
MODEL (MAP)	KFDA 25	KFDA 50	KFDA 75
Capacity	25 kg	50 kg	75 kg.
Design	Hose & Nozzle	Hose & Nozzle	Hose & Nozzle
Height (Approx.)	980 mm.	1020 mm.	1030 mm.
Diameter (Approx.)	300 ±10 mm.	400 ±10 mm.	400 ±10 mm.
Average Discharge time	25 -30 Sec.	40-50 Sec.	50-60 Sec.
Average Range of throw	6 m.	5 m.	10 m.
Minimum % Discharge	85%	85%	85%
Operating Temperature	-30 -c to +55 -c	-30 -c to +55 -c	-30 -c to +55 -c
Service Pressure (Ps)/ Expansion Space	14 kg/cm2.	14 kg/cm2.	14 kg/cm2.
Test Pressure	30 kg/cm2.	30 kg/cm2.	30 kg/cm2.
Expelling Agent	CO2 Gas.	CO2 Gas.	CO2 Gas.
CO2 Gas Cylinder	1 kg.	2 kg.	2 kg.
Full Weight (Approx.)	64 kg.	107 kg.	146 kg.
Empty Weight (Approx.)	39 kg.	57 kg.	73 kg.
Shipping Weight (Approx.)	65 kg.	110 kg.	148 kg.
Packing Standard	Jute Bags	Jute Bags	Jute Bags
Approvals	BIS & CE	BIS & CE	BIS & CE

MECHANICAL FOAM & WATER TYPE TROLLEY MOUNTED

Features a combination of mobility, 1-person operation & fire-killing power. A-ONE Units utilize a regulator to maintain a consistent operating pressure and flow throughout the total extinguisher discharge.

Type	KFM 50	KFM 150	KFM 50	KFM 150
Model	50 Ltr.	150 Ltr.	50 Ltr.	150 Ltr.
Capacity	Hose & Air aspirated Nozzle	Hose & Air aspirated Nozzle	Hose & Nozzle	Hose & Nozzle
Design	1285 mm.	1350 mm.	1285 mm.	1350 mm.
Fire Rating	300 ±10 mm.	480 ±10 mm.	300 ±10 mm.	480 ±10 mm.
Height (Approx.)	40 -180 Sec.	40 -180 Sec.	40 -180 Sec.	40 -180 Sec.
Diameter (Approx.)	10 m.	10 m.	10 m.	10 m.
Average Discharge time	90°10	90°10	90°10	90°10
Average Range of throw	+5 °C to +55 °C	+5 °C to +55 °C	+5 °C to +55 °C	+5 °C to +55 °C
Average % Discharge	14 kg/cm2.	14 kg/cm2.	14 kg/cm2.	14 kg/cm2.
Operating Temperature	30 kg/cm2 .	30 kg/cm2 .	30 kg/cm2 .	30 kg/cm2 .
Service Pressure (Ps)	CO2 Gas.	CO2 Gas.	CO2 Gas.	CO2 Gas.
Max. Service Pressure (Pms)	300 gm.	2 kg.	300 gm.	2 kg.
Test Pressure	87 kg.	249 kq.	87 ko.	249 kg.
Expelling Agent	37 kg.	99 kg.	37 kg.	99 kg.
Full Weight (Approx.)	89 kg.	251 kg.	89 kg.	251 kg.
Empty Weight (Approx.)	Jute Bags	Jute Bags	Jute Bags	Jute Bags
Shipping Weight (Approx.)	BIS & CE	-	-	-

Co2 TYPE TROLLEY MOUNTED

A-ONE CO2 GAS extinguishers are characterized by their high performance for fires involving an electrical rick like computers, office equipment, and generators, etc. CO2 is non-conductive, clean, and safe, ensuring minimal damage to electrical equipment and furnishings.

Model	KFC 6.5	KFC 9	KFC 22.5
Capacity	6.5 kg.	9 kg.	22.5 kg.
Design	Hose & Horn	Hose & Horn	Hose & Horn
Height (Approx.)	960 mm.	1250 mm.	1155 mm.
Diameter (Approx.)	140 ±10 mm.	140 ±10 mm.	232 ±10 mm.
Average Discharge time	10 -20 Sec.	15 -36 Sec.	20 -60 Sec.
Average Range of throw	10 m.	10 m.	10 m.
Minimum % Discharge	95%	95%	95%
Operating Temperature	-30 -c to +55 -c	-30 -c to +55 -c	-30 -c to +55 -c
Service Pressure (Ps)	60 bar.	60 bar.	60 bar.
Test Pressure	250 bar.	250 bar.	250 bar.
Full Weight (Approx.)	21 or 23 kg.	29 or 32 kg.	66 or 69 kg.
Empty Weight (Approx.)	14.5 or 16.5 kg.	20 or 23 kg.	43.5 or 46.5 kg.
Shipping Weight (Approx.)	22 or 24 kg.	30 or 33 kg.	67 or 70 kg.
Packing Standard	Jute Bags	Jute Bags	Jute Bags
Approvals	BIS & CE	BIS & CE	BIS & CE

WHEELED EXTINGUISHER TYPE TWIN AGENT 50 + 50

With External Nitrogen Cartridge



DESCRIPTION

The trolley fire extinguisher with double extinguishing, also called Twin agents, is constituted from an only trolley on the strong rubber wheels mounted spheres, and from two tanks charged with powder ABC/SBC (on request) / PBC (on request) and with foam, A.F.F.F concentrate. The combined action renders them unsurpassable in the fight against the fire. On great fires of inflammable liquids, the foam action creates a sealing effect that pulls down flames, and in case the extinction has not been obtained, the powder easily extinguishes the residual flames. The foam action pulls down flames and reduces the heat drastically, allowing an approach and successive use of the powder

TROLLEY FRAME

- The trolley is made of a steel tube with a rubber wheel of 300 mm diameter.
- The cylinder is independent of the frame trolley giving advantages for better safety avoiding welding on its body.

EXTINGUISHER UNIT

- Both foam & powder cylinders are made of mild steel tested at 35 kg/cm².
- A larger diameter threaded ring nut is welded on top of the cylinder for easy charging and internal inspection during periodic testing.
- Ring nut is screwed to forged brass cap with built-in safety valve with calibrated spring made of stainless steel to guarantee calibration in time and to withstand worst atmospheric conditions.

CYLINDER PROPELLENT

- 6.8 ltr nitrogen EKC cylinder complete with handwheel valve for quick pressurization of foam and powder cylinder fixed to the rear part of trolley tested at 250 bar charged at 200 bar.
- Before painting body is cleaned with deep sandblasting assuring a raw surface for a perfect and strong grasp of enamel paint, resistant to scratches and knocks as well to corrosive weather conditions.

PRESSURE REGULATOR

- The discharge of nitrogen for the pressurization is controlled by an intermediate pressure reducer calibrated at 12 bar-14 bar to obtain uniform discharge at constant pressure.
- Two on/off valves were placed between the reducer for the cylinders to allow independent pressurization. The cylinders are pressurized for 15 secs after which the spray nozzles can be active for discharging foam & powder.

DISCHARGE APPARATUS

- Supply with two hoses of 5 mt length, made in rubber with reinforced textile braided wire; at the end there is a unique rotating ball-valve and a forming foam air aspirating allow nozzle for controlling the discharge.

EXTINGUISHING AGENT

POWDER

Dry chemical powder ABC. The basic components of dry ABC powder are ammonium phosphate and ammonium sulfate with special silicones additives enabling easy flow discharge and avoiding any caking process. Dry powder is not corrosive, not abrasive, non-toxic for humans and animals. On request can be supplied with monex or special BC or with 90% MAP

FOAM

KV fire Foam concentrate is the most powerful product. It is simply water with an additive AFFF based specially formulated compound for the best sealing effect.

TORQUE FORCE

- The valve is screwed down on the nitrogen cylinder with a torque force between 13.2 e 15.2 kgm.
- The cap is screwed down on the powder/foam cylinder with a torque force between 1.5 e 1.6 kgm. The torque force for the lose and the pipe is between 1.5 e 1.6 kgm.
- The torque force for the safety device is between 1.5 e 1.6 .
- KV fire Foam concentrate is the most powerful product. It is simply water with an additive AFFF based specially formulated compound for the best sealing effect.

MAINTENANCE

- To keep the fire extinguishers in perfect working condition, we recommend its maintenance according to IS:2190 standard.

PERIODIC INSPECTIONS, SERVICING, AND TESTS

- Maintenance must be done every 6 months, while the replacement of the fire extinguishant must be done every 18 months (for the foam) and 36 months (for the powder).

PORTABLE POWDER FILLING EQUIPMENT

The machine is used for filling dry chemical powder (DCP) into fire extinguishers as well as for transferring DCP from fire extinguishers to storage containers without spillage or emissions of the powder to the surroundings.



FEATURES

Selling Powder Filling Unit:

- A-ONE SPS-controlled powder emptying and filling unit for the exact filling of portable extinguishers of all makes and sizes Filling takes place out of a bag or a fire extinguisher as well as out of storage tank (e.g. 250 kg - accessory). The extinguisher is filled directly through the powder filling unit in continuous operation on setting the requested weight.
- The A-ONE is equipped with an electronic scale that switches off on reaching the preset filling weight. The scale can be programmed with filling weights which can be activated according to the weight required.

The weights are indicated on the operating pane. The filling of movable extinguishers is to be carried out with the help of a special filling adaptor.

The unit is equipped with:

- High - quality, self-cleaning filters Programmable digital scale, 10 g resolution for automatic cut-off on reaching the filling weight. Powder tank for inter storage of extinguishing powder up to 30 Kg. Lockable ball valves.
- An advantage is the diagonally positioned, removable sieve, which retains lumps and contamination.
- The window for powder control Powder suction hose 32mm, length 2 m with couplings Connection for fluidization to aerate the powder inside the storage silo Sound absorber for sound isolation Powerful, low maintenance vacuum pump.

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