

UNIQUE FIRE INDUSTRY

PRODUCT CATALOGUE



ADDRESS

No. 9, Jalan Anggerik Mokara 31/55,
Kota Kemuning, Seksyen 31, 40460,
Shah Alam, Selangor, Malaysia

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SCAN ME



INTRODUCTION

Unique Fire Industry is an ISO certified, multiple award-winning fire equipment company that has a passion to see that every home and workplace is adequately protected against fire hazards. Our experience in the fire-fighting industry since 1975 gives us an edge when it comes to advising what fire suppression systems and equipment work best for your property.



ABOUT US

MISSION

OUR CUSTOMER

We commit to market a range of quality fire protection products, solutions and services to meet the diverse needs of our customers.

OUR PEOPLE

We learn and grow together with our employees through understanding, educating and communication to foster an enjoyable working environment..

VISION

OUR CUSTOMER

To protect lives and properties as a preferred brand that is recognized by the public.

OUR PEOPLE

To generate leaders that believe employees are the most important asset to the company.

1997

Unique Fire owes its humble beginnings to the energy and drive of one man, Mr Liew Sen Hoi, the founder and Managing Director of the Group. The company was incorporated in **1997** and began as a distributor of fire protection equipment.

2008

Our second factory was built in Kota Kemuning, Shah Alam. This factory assembled Unique Fire's complete line of dry chemical portable fire extinguishers, in strict adherence to high quality assurance levels so as to meet our customers' demands.

2013

We took a quantum leap forward with the completion of our current office, factory and warehouse in Kota Kemuning, Shah Alam. This premise provided us with the space to expand our product range and continue growing our business.

NOW

As of **2022**, we are proudly listed on the ACE Market of Bursa Malaysia.

CONTENT

FIRE EXTINGUISHERS

- Dry Powder, Carbon Dioxide, Foam 4
- Filling Series For Fire Extinguisher 12

FIRE PROTECTION EQUIPMENT

- Fire Hose Reels 14
- Fire Hoses 16

FIRE SUPPRESSION SYSTEMS

- Wet and Dry Riser Systems, and Hydrants 18
- Fire Sprinkler System 25
- Unique227 Fire Suppression System 42
- Carbon Dioxide Fire Extinguishing System 65
- Unique5112 Fire Suppression System
- Range Guard Wet Chemical System for Commercial Kitchen 79

FIRE DETECTION AND ALARM DEVICES 39

FIRE PROTECTION ACCESSORIES

- Fire Blanket 82
- Smoke Curtain 83
- Home Safety Kit 84

AUTHORISED DISTRIBUTOR

FIRE EXTINGUISHER

Fire extinguishers are active fire protection equipment, usually used in emergencies, for extinguishing small fires or for preventing them from spreading. They are generally hand-held cylinders that contain pressurised extinguishing agents which are released to fight a fire.



FIRE EXTINGUISHER

Portable Dry Powder Fire Extinguisher



9kg

6kg

4kg

2kg

1kg

TECHNICAL DATA					
Model No.	UF - 9	UF - 6	UF - 4	UF - 2	UF - 1
Part No.	FEU - 9D	FEU - 6D	FEU - 4D	FEU - 2D	FEU - 1D
Capacity	9.0 kg	6.0 kg	4.0 kg	2.0 kg	1.0 kg
Type of Extinguishant	ABC Dry Powder				
Type	Stored Pressure				
Pressurised Agent	Nitrogen				
Working Pressure	12 bar (174psi)				
Test Pressure	25 bar (362.5psi)				
Temperature Range	-20°C to 60°C				
Discharge Time (approx.)	20s	18s	14s	12s	7s
Overall Height	560 mm	560 mm	470 mm	378 mm	330mm
Cylinder Diameter	181 mm	157 mm	157 mm	110 mm	79 mm
Approx. Full Weight	13.0 kg	9.4 kg	6.9 kg	3.3 kg	1.9 kg
Body Material	Cold Rolled Steel				
Finishing	Red (RAL 3000)				
Class of Fire	A, B, C, E				
Fire Rating	27A 144B	27A 144B	13A 70B	8A 55B	5A 21B
Manufactured & Approved	MS 1539 PART 1 : 2002				
Throw Range Discharge	3-4 m (approx.)				

All specifications and information indicated in this catalogue are subjected to change without prior notice.



SIRIM
Certified To:
MS 1539 PART 1: 2002
Certification No: PU 15303

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FIRE EXTINGUISHER

2 kg Portable Dry Powder Fire Extinguisher



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MS 1539 PART 1: 2002
Certification No: PU 15303

TECHNICAL DATA	
Model No.	UF - 2
Part No.	FEU - 2D
Capacity	2.0 kg
Type of Extinguishant	ABC Dry Powder
Type	Stored Pressure
Pressurised Agent	Nitrogen
Working Pressure	12 bar (174psi)
Test Pressure	25 bar (362.5psi)
Temperature Range	-20°C to 60°C
Discharge Time (approx.)	12s
Overall Height	378 mm
Cylinder Diameter	110 mm
Approx. Full Weight	3.3 kg
Body Material	Cold Rolled Steel
Finishing	Red (RAL 3000)
Class of Fire	A, B, C, E
Fire Rating	8A 55B
Manufactured & Approved	MS 1539 PART 1 : 2002
Throw Range Discharge	3-4 m (approx.)

1 kg Portable Dry Powder Fire Extinguisher



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MS 1539 PART 1: 2002
Certification No: PU 15303

TECHNICAL DATA	
Model No.	UF - 1
Part No.	FEU - 1D
Capacity	1.0 kg
Type of Extinguishant	ABC Dry Powder
Type	Stored Pressure
Pressurised Agent	Nitrogen
Working Pressure	12 bar (174psi)
Test Pressure	25 bar (362.5psi)
Temperature Range	-20°C to 60°C
Discharge Time (approx.)	7s
Overall Height	330mm
Cylinder Diameter	79 mm
Approx. Full Weight	1.9 kg
Body Material	Cold Rolled Steel
Finishing	Red (RAL 3000)
Class of Fire	A, B, C, E
Fire Rating	5A 21B
Manufactured & Approved	MS 1539 PART 1 : 2002
Throw Range Discharge	3-4 m (approx.)

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FIRE EXTINGUISHER

Trolley Type Dry Powder Fire Extinguisher



25kg

TECHNICAL DATA	
Model No.	UFM25
Part No.	FEUT- 25D
Capacity	25kg
Type of Extinguishant	ABC Dry Powder
Type	Stored Pressure
Propellant	Nitrogen
Working Pressure	15 bar (218 psi)
Test Pressure	30 bar (435 psi)
Temperature Range	-20°C to 60°C
Discharge Time	15s (approx.)
Overall Length	440mm
Overall Width	450mm
Overall Height	960mm
Overall Weight	60 kg
Body Material	CR Steel
Finishing	Red (RAL 3000)
Class of Fire	A, B, C, E
Fire Rating	A 233B C
Throw Range Discharge	5 - 6m (approx.)
Length of Hose	Minimum 6m



50kg

TECHNICAL DATA	
Model No.	UFM50
Part No.	FEUT- 50D
Capacity	50kg
Type of Extinguishant	ABC Dry Powder
Type	Stored Pressure
Propellant	Nitrogen
Working Pressure	15 bar (218 psi)
Test Pressure	30 bar (435 psi)
Temperature Range	- 20°C to 60°C
Discharge Time	30s (approx.)
Overall Length	490mm
Overall Width	500mm
Overall Height	1110mm
Overall Weight	92kg
Body Material	CR Steel
Finishing	Red (RAL 3000)
Class of Fire	A, B, C, E
Fire Rating	A 233B C
Throw Range Discharge	5 - 6m (approx.)
Length of Hose	Minimum 6m

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FIRE EXTINGUISHER

Portable Carbon Dioxide Fire Extinguisher



5kg



2kg

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MS 1539 PART 1: 2002
Certification No: PU 15303

TECHNICAL DATA		
Model No.	GL 2.0	GL 5.0
Part No.	FEU-2C	FEU-5C
Capacity	2.0kg	5.0kg
Type of Extinguishant	Carbon Dioxide (CO ₂)	
Working Pressure	60 bar (870 psi)	
Test Pressure	250 bar (3625 psi)	300 bar (4350 psi)
Temperature Range	-20°C to 60°C	
Discharge Time (approx.)	6s	9s
Overall Height	525mm	755mm
Overall Diameter	114mm	137mm
Full Weight (approx.)	7.5kg	17kg
Body Material	Carbon Steel	Alloy Steel
Finishing	Red (RAL 3000)	
Class of Fire	B, E	
Fire Rating	21B	55B
Manufactured & Approved	MS 1539:PART 1:2002	
Throw Range Discharge (approx.)	2-3m	3-4m

Trolley Type Carbon Dioxide Fire Extinguisher



45kg

TECHNICAL DATA	
Part No.	CYL-TRO
Manufacture Standard	GB5099-94
Capacity	45kg
Type of Extinguishant	Carbon Dioxide (CO ₂)
Working Pressure	150 bar (2175psi)
Test Pressure	225 bar (3263 psi)
Temperature Range	-20°C to 60°C
Discharge Time (approx.)	30s (approx.)
Empty Weight	75 kg
Body Material	37 Mn Steel
Finishing	Red (RAL 3000)
Class of Fire	B, E
Throw Range Discharge	3-4m (approx.)
CYLINDER ON TROLLEY	
Overall Height	1530 mm
Overall Width	267 mm
Length of Hose	Minimum 6m

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FIRE EXTINGUISHER

Portable Foam Fire Extinguisher



9L

TECHNICAL DATA	
Model No.	UF9F
Part No.	FEU-9F
Capacity	9L
Type of Extinguishant	3% AFFF Foam
Type	Stored Pressure
Propellant	Nitrogen
Working Pressure	14 bar (203 psi)
Test Pressure	27 bar (392 psi)
Temperature Range	5°C to 60°C
Discharge Time	65 - 75s (approx.)
Overall Length	220mm
Overall Width	185mm
Overall Height	585mm
Approx. Full Weight	12.5kg
Body Material	CR Steel
Finishing	Red (RAL 3000)
Class of Fire	A, B
Throw Range Discharge	4 - 5m (approx.)
Fire Rating	21A, 183B

Trolley Type Foam Fire Extinguisher



45L

TECHNICAL DATA	
Model No.	UFM45F
Part No.	FEUT-45F
Capacity	45L
Type of Extinguishant	3% AFFF Foam
Type	Stored Pressure
Propellant	Nitrogen
Working Pressure	15 bar (218 psi)
Test Pressure	30bar (453 psi)
Temperature Range	5°C to 60°C
Discharge Time	65 - 75s (approx.)
Overall Length	490mm
Overall Width	670mm
Overall Height	1110mm
Approx. Full Weight	85kg
Body Material	CR Steel
Finishing	Red (RAL 3000)
Class of Fire	A, B
Throw Range Discharge	6 - 7m (approx.)
Fire Rating	A233B
Length of Hose	Minimum 6m

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FIRE EXTINGUISHER

Indoor Fire Extinguisher Cabinet



TECHNICAL DATA		
Model	6kg & 9kg Dry Powder	2kg CO ₂
Part No.	CAB-FEI	CAB-FEI
Dimension (mm)	280(W) x 240(D) x 710 (H)	280(W) x 240(D) x 710 (H)
Installation	Wall Mounted	
Material	Mild Steel	
Thickness	0.9 mm	
Finishing	Epoxy Powder Red	

* Stainless steel material available on request

Outdoor Fire Extinguisher Cabinet



TECHNICAL DATA		
Model	9kg Dry Powder	2kg CO ₂
Part No.	CAB-FEO	CAB-FEO
Dimension (mm)	280(W) x 250(D) x 690(H)	280(W) x 250(D) x 690(H)
Installation	Wall Mounted	
Material	Mild Steel	
Thickness	0.9 mm	
Finishing	Epoxy Powder Red	

* Stainless steel material available on request

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FIRE EXTINGUISHER

Fire Extinguisher Stand



TECHNICAL DATA		
Part No.	FEU-STD-1D/2D	FEU-STD-4D/6D/9D
Model	Dry Powder - 1kg & 2kg	Dry Powder - 4kg, 6kg & 9kg Carbon Dioxide - 2kg
Dimension (mm)	235 (L) x 195 (D) x 480 (H)	320 (L) x 330 (D) x 705 (H)
Material	Mild Steel	

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REFILLING MACHINE

All types of fire extinguishers should be regularly inspected to ensure that they will function when required. The inspection includes noting any signs of damage or corrosion, changes in pressure and weight of cylinders.

During a service inspection, the dry powder inside the fire extinguisher is discharged into the powder suction machine. The dry powder refilling machine discards the powder if it is found to be caked or lumped and the fire extinguisher is refilled with powder that is in good condition according to the weight stated. The appropriate pressure is applied and a leakage test is conducted. All operation components of the extinguisher are also thoroughly inspected and cleaned before re-assembly.



FILLING SERIES FOR FIRE EXTINGUISHER

UNIQUE Dry Powder Refilling Machine



UNIQUE Dry Powder Refilling Machine is designed for filling various sizes of portable dry powder fire extinguishers. It consists of a powder tank, suction pump, motor and filter.



UNIQUE Dry Powder Refilling Machine is rigidly constructed to provide stability while refilling cylinders as well as convenient portability when required. The set of two heavy-duty wheels at the back of the base platform allows the machine and cylinders to be easily moved to and parked at another location.

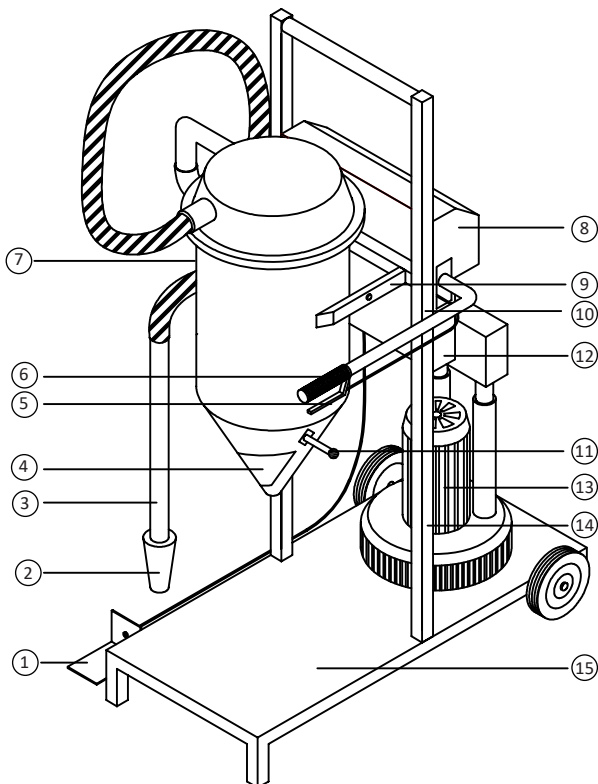
Features

Simple to operate. No complicated instructions.

Convenient. Easy to move machine around.

Extendable. Adjustable machine height to fit cylinder size.

Direct recycling of powder. No pollution of surrounding area.



TECHNICAL DATA	
Part No.	FEU-RMP
Filling Speed	3kg/ min (approx.)
Suitable Caliber	20 mm - 80 mm
Power	0.7kW, 220V
Shuttle Weight	80kg
Size (mm)	550 (W) x 850 (D) x 1230 (H)

Components:

1. Foot Board Reversing Valve
2. Suction Tube Bracket
3. Suction Tube
4. Powder Holder Window
5. Descend Brake Crank
6. Rise Handle
7. Powder Holder
8. Electrical Cabinet
9. Front & Back Adjustable Fixing Bolts
10. Upper Bracket
11. Reversing Valve
12. Feed Opening Valve Switch
13. Electrical Pump
14. Rise-and-Fall Spring Fixed Pin
15. Base of the whole Machine

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FIRE HOSE REEL

A Fire Hose Reel is designed to carry and manage a heavy, high-pressure fire hose, keeping it ready and in good condition as a conduit for water in case a fire occurs. The circular reel drum also makes it easy to reel out the fire hose for use in a fire, and to reel it in for storage.

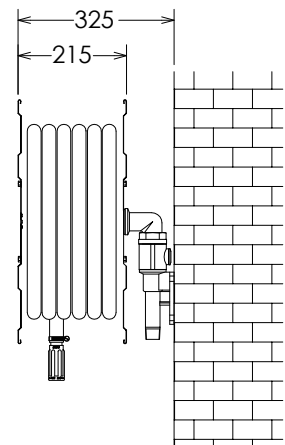
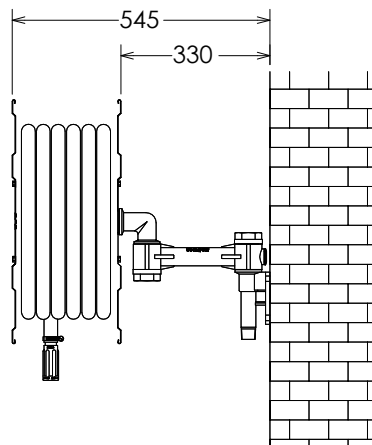
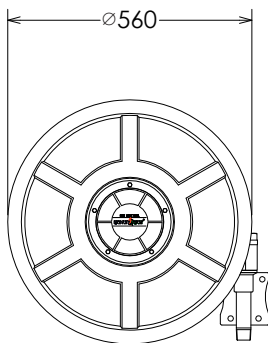


UNIQUE Fire Hose Reel

Fire Hose Reel



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MS1447 : PART 1 : 2006
Certification No : PC001032



TECHNICAL DATA	
Part No.	HRU-DR-25 (Drum) HRU-HO-25 (Hose) HRU-NOZ-NY-25 (Nylon Nozzle) HRU-NOZ-AB-25 (ABS Brass Nozzle) HRU-NOZ-BR-25 (Chrome Nozzle) HRU-CL-25 (Clip)
Drum Size	560 mm(22")
Type	Swing Manual
Finishing	Epoxy Powder Red
Hose Diameter	25 mm
Hose Length	30 m
Working Pressure	12 bar (174psi)
Test Pressure	20 bar (290psi)
Nozzle Type	Jet / Spray / Shut-Off
Nozzle Size	25 mm

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UNIQUE Fire Hose Reel

Fire Hose Reel Drum



TECHNICAL DATA	
Part No.	HRU-DR-25
Diameter	560 mm(22")
Type	Swing Manual
Material	Cold Roll Steel
Finishing	Epoxy Powder Red

Fire Hose Reel Hose



TECHNICAL DATA	
Part No.	HRU-HO-25
Size	25 mm
Length	30 m
Working Pressure	12 bar (174psi)
Test Pressure	18 bar (261psi)
Material	PVC Semi Rigid
Finishing	Black
Standard	Comply to EN 694

Fire Hose Reel Nozzle



Nylon

Chrome
Brass

ABS
Brass

TECHNICAL DATA			
Part No.	HRU-NOZ-NY-25	HRU-NOZ-BR-25	HRU-NOZ-AB-25
Material	Nylon	Chrome Brass	ABS Brass
Type	Jet / Spray / Shut-Off		
Finishing	Red	Chrome	Plated
Spray Range	10m (approx.)		
Flow Rate @ 2.0 bar	33 L/min	26.6 L/min	35.7 L/min
Throw Range	13.5 m	10.8 m	11.2 m

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UNIQUE Fire Hose Reel

Fire Hose Reel Nozzle Box



TECHNICAL DATA		
Part No.	CAB-NB	CAB-NB-NY
Size	Chrome Brass & ABS Brass	Nylon
Size	120mm (W) x 120mm (H) x 60mm (D)	
Type	Wall Mounted	
Material	Aluminium	
Thickness	2.5 mm	
Finishing	Epoxy Powder Red	

Fire Hose Reel Cabinet (Wall Mounted)



TECHNICAL DATA	
Part No.	CAB-HR
Size	750mm(W) x 350mm(D) x 750mm(H)
Type	Wall Mounted
Material	Mild Steel / Stainless Steel
Thickness	0.9 mm
Finishing	Epoxy Powder Red

Air Release Valve



TECHNICAL DATA	
Part No.	WRU-ARV
Size	25mm (1")
Material	Copper Alloy
Finishing	Natural
Working Pressure	15 bar (max)
Test Pressure	20 bar

Fire Hose Clip



TECHNICAL DATA	
Part No.	HRU-CL-25
Size	25mm - 35mm
Material	Mild Steel
Finishing	Galvanised

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FIRE HYDRANT/WET & DRY RISER SYSTEM

The main components of a fire hydrant system are fire hoses, fire hydrants, valves and breeching inlets. A fire hydrant is an above-ground piece of equipment that gives access to a water supply that may not be pressurised. The system can either be a dry riser system or a wet riser system.

In a dry riser system, the water needed to fight a fire in an emergency is charged by the fire brigade. The breeching inlets are usually housed in cabinets installed in each floor of a building.

The wet riser system holds pressurised water which is connected to the water mains and the water is kept in check by means of valves. The breeching inlets for this system are also housed in inlet cabinets that indicate the type of riser system in use.



YAMA Fire Hose



TECHNICAL DATA			
Part No.	FH-13W-40	FH-13W-65	FH-10W-65
Size	40mm	65mm	65mm
Working Pressure	13 bar		10 bar
Burst Pressure	30 bar		25 bar
Test Pressure	20 bar		16 bar
Length	30m		
Type	Type 1, Light Weight Fire Hose		
Material	Tough Woven Polyester Fabric		
Finishing	White		

COMMANDER Fire Hose



TECHNICAL DATA		
Part No.	FH-16W-65	FH-16R-65
Size	65mm	65mm
Working Pressure	16 bar	
Burst Pressure	32 bar	
Length	30m	
Type	Type 1, Light Weight Fire Hose	
Material	Tough Woven Polyester Fabric	
Test Pressure	25 bar	25 bar
Finishing	White	Red

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Breeching Inlet



TECHNICAL DATA		
Part No.	DRU-2W	WRU-4W
Model	2 Way	4 Way
Dimension	316mm(L) x 219mm(W) x 235mm(H)	382mm(L) x 280mm(W) x 270mm(H)
Outlet Size	Flange (4") 100mm Table E	Flange (6") 150mm Table E
Inlet Size	BS 336 Male Instantaneous	
Working Pressure	10 bar	
Test Pressure	20 bar	
Material	Cast Iron (Body)	
	Copper Alloy (Male Instantaneous)	
Finishing	Red	

E-TYPE LANDING VALVE / PRESSURE REGULATING VALVE



TECHNICAL DATA		
Part No.	WRU-EPRV	WRU-EPRV-F
Type	Screw Type (Thread)	Flange Type
Size	Ø65mm (2 1/2")	
Test Pressure	30 bar	
Max. Inlet Pressure	20 bar	
Factory Pre-Set Pressure	7 bar	
Inlet Size	65mm BSP Thread	
Outlet Size	BS 336 Female Instantaneous	
Material	Copper Alloy (Body)	
	Cast Iron (Handwheel)	
Finishing	Red or Yellow	
Features	Suitable to use for inlet pressure up to 20 bar	
	Setting for reduced outlet static pressure from 5 to 8 bar	
	When inlet pressure range from 7 to 20 bar, outlet pressure will remain constant	

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UNIQUE FIRE INDUSTRY SDN BHD Co. No. 418731-U

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ZYfire Rubber Hose



CONFIRMING TO
BS: 6391 TYPE 3

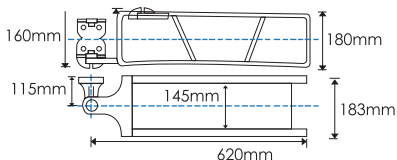
Specifications

Reinforcement : Synthetic Yarn
Cover and Tube : Nitrile/TPR Blend tube, heavy rib with higher abrasion resistance
Application : Industrial fire fighting, fire hose for brigade, water discharge

TECHNICAL DATA

Part No.	FH-14ZY-65	FH-14ZY-40
Size	65mm	40mm
Material	Nitrile Rubber	
Length	30m	
Type	BS6391-Type 3	
Working Pressure	14bar (200psi)	
Minimum Burst Pressure	42bar (600psi)	
Number of Layers	Three (3): Tube : Nitrile / TPR Blend etc Reinforcement Jacket : Polyester or Nylon Cover : Nitrile / TPR Blend etc	

Hose Cradle



TECHNICAL DATA

Part No.	WRU-HC
Material	Mild Steel (Body) Aluminium (Hinge)
Support Weight	38 kg max.
Finishing	Red Polyester Electrostatic Powder Coating

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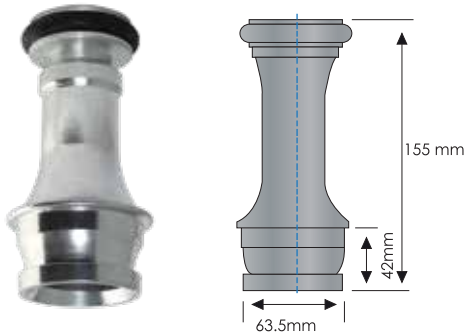
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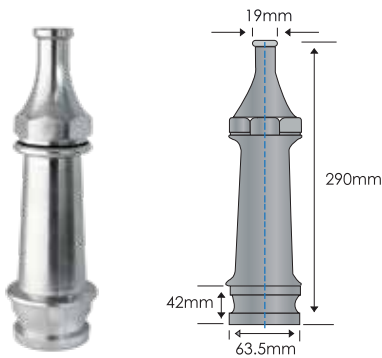
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Diffuser Nozzle



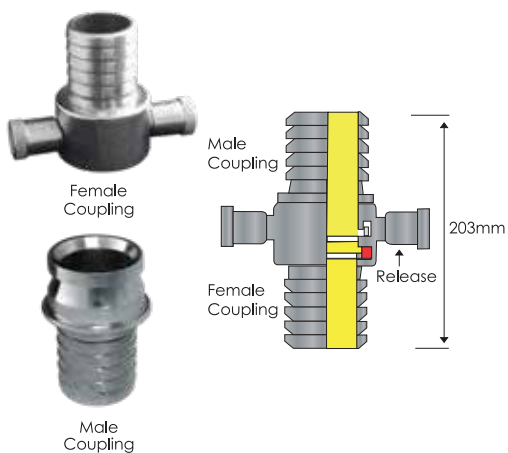
TECHNICAL DATA	
Part No.	FN
Material	Light Alloy/ Brass/ Bronze
Inlet	Ø65mm (male)
Connection	Instantaneous
Flow Rate @ 65 psi (4.4 bar)	500 L/min (Jet), 590 L/min (Spray)
Throw Range @ 65 psi (4.4 bar)	26m (Jet), 15m (Spray)
Test Pressure	Maximum 18 Bar

Branch Pipe with Nozzle



TECHNICAL DATA	
Part No.	WRU-BPN
Material	Light Alloy/ Brass/ Bronze
Inlet	Ø65mm (male)
Connection	Instantaneous
Flow Rate @ 65 psi (4.4 bar)	510 L/min (19mm dia.)
Throw Range @ 65 psi (4.4 bar)	22m (19mm dia.)

Instantaneous Coupling



TECHNICAL DATA	
Part No.	FHC-F40, FHC-M40 FHC-F65, FHC-M65
Material	Light Alloy
Inlet	Ø40mm Ø65mm
Connection	Instantaneous

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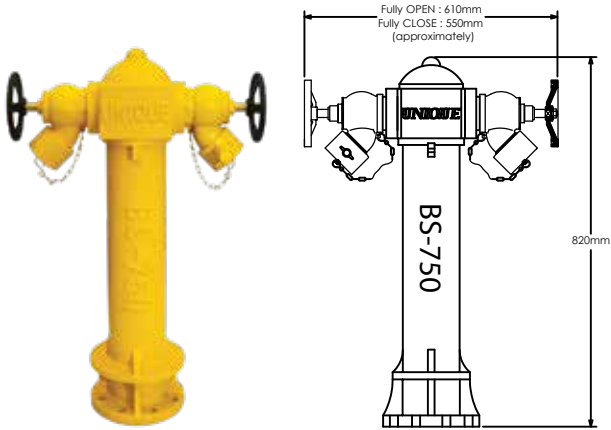
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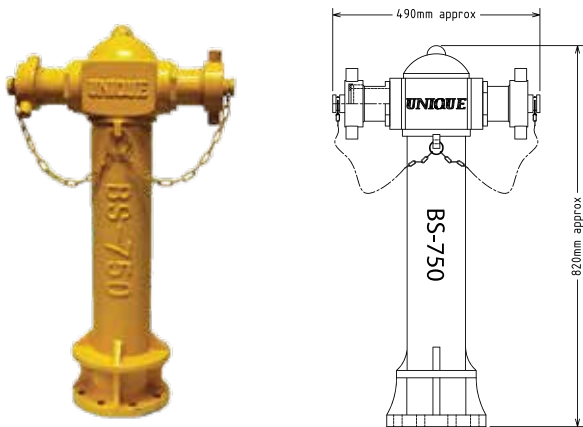
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2-Way Fire Hydrant with Landing Valve



TECHNICAL DATA	
Part No.	HYU-2WHV
Working Pressure	15 bar
Test Pressure	20 bar
Flange Inlet Size	(4") 100mm Table E BS 10 Flange
Outlet	BS 336 Female Instantaneous
Material	Cast Iron (Body)
	Copper (Alloy Valve)
Finishing	Yellow or Red

Plain End Pillar Hydrant



TECHNICAL DATA	
Part No.	HYU-2WHPE
Working Pressure	15 bar
Test Pressure	20 bar
Flange Inlet Size	(4") 100mm Table E BS 10 Flange
Outlet	BS 336 Male Threaded
Material	Cast Iron (Body)
	Copper (Alloy Valve)
Finishing	Yellow or Red
Outlet Size	5-1/3" Thread Per Inch

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Fire Hydrant System / Wet & Dry Riser

Fire Hydrant Landing Valve



TECHNICAL DATA		
Part No.	DRU-LV	DRU-LV-F
Model	Screw Type (Thread)	Flange Type
Size	Ø65mm (2 1/2")	
Working Pressure	7 bar	
Test Pressure	30 bar	
Minimum Flow Rate	8.5 Litre / second @ 4.5 Bar	
Inlet Size	65mm BSP Thread	
Outlet Size	BS 336 Female Instantaneous	
Material	Copper Alloy (Body)	
	Cast Iron (Handwheel)	
Finishing	Red or Yellow	

Breeching Inlet Cabinet



TECHNICAL DATA		
Part No.	CAB-2W	CAB-4W
Model	2 Way Breeching Inlet	4 Way Breeching Inlet
Size (mm)	595(W)x395(H)x295(D)	555(W)x565(H)x300(D)
Material	Mild Steel	
Thickness	0.9mm	
Outlet	(4") Flange 100mm Table E	(6") Flange 150mm Table E
Finishing	Epoxy Powder Red	
Design	BS 5041: Part 5	

Hydrant Hose Cabinet



TECHNICAL DATA		
Part No.	CAB-HCL	CAB-HC
Model	With Legs	Without Legs
Size (mm)	560(W)x1170(H)x330(D)	560(W)x600(H)x330(D)
Material	Mild Steel	
Finishing	Epoxy Powder Coating	

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FIRE SPRINKLER SYSTEM

An automatic sprinkler fire protection system is an active fire protection method of fighting fire with water. This method consists of a water supply system that provides sufficient pressure and flow rate of water via a system of pipes to the installed spray sprinklers.

A fire sprinkler system is cost-effective, reliable and simple to operate and maintain. The main components of the system are the sprinklers, sprinkler monitoring equipment, flow meter and an automatic alarm check valve. The fire sprinkler system reduces potential property losses and is one of the most efficient ways of controlling a fierce fire, even extinguishing it, until the fire fighters arrive.



FIRE SPRINKLER SYSTEM

CD Alarm Check Valve



TECHNICAL DATA		
Part No.	SAV-CD-100 (Alarm Valve)	SAV-CD-150 (Alarm Valve)
	SAG-CD (Alarm Gong)	SAG-CD (Alarm Gong)
Size (mm)	100mm (4")	150mm (6")
Standard	UL 193 Alarm Valves for Fire Protection Service	
Material	Cast Iron ASTM A48 Class No. 35	
Rated Pressure	175 psi	
Test Pressure	350 psi	
Marking	UL Listed 3558 Co A 175 psi 4/6 Alarm Check Valve	
Flange Dimension	ANSI B16.1 Class 125 / ANSI B 16.5 Class 150	
Installation	Vertical 1/2" NPT (PT) Thread Female Inlet 3/4" NPT (PT) Thread Female Outlet 1/2" NPT (PT) Thread Female Drain	

VIKING Alarm Check Valve (Model J-1)



TECHNICAL DATA			
Part No.	SAV-VK-100 (Alarm Valve)	SAV-VK-150 (Alarm Valve)	SAV-VK-200 (Alarm Valve)
	SAG-VK(Alarm Gong)	SAG-VK(Alarm Gong)	SAG-VK(Alarm Gong)
Size	100mm (4")	150mm (6")	200mm (8")
Friction Loss (equivalent length)	4.0m	6.0m	7.0m
Maximum Working Pressure	12 bar(175psi)		
Max Test Pressure	24 bar(350psi)		
Flange Connections	ANSI B16.42 Class 150		
Sound Output	90 dB		

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FIRE SPRINKLER SYSTEM



CD Conventional Sprinkler



TECHNICAL DATA	
Part No.	SHC-C-68C-15(R1)
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chrome Finished
Working Pressure	12 bar (175 psi)

CD Pendent Sprinkler



TECHNICAL DATA	
Part No.	SHC-P-68C-15
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chrome Finished
Working Pressure	12 bar (175 psi)

CD Upright Sprinkler



TECHNICAL DATA	
Part No.	SHC-U-68C-15
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chrome Finished
Working Pressure	12 bar (175 psi)

CD Horizontal Side Wall



TECHNICAL DATA	
Part No.	SHC-S-68C-15
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chrome Finished
Working Pressure	12 bar (175 psi)

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FIRE SPRINKLER SYSTEM

VIKING Conventional Sprinkler



TECHNICAL DATA	
Part No.	SHV-C-68C-15
SIN	VK118
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chrome Finished
Maximum Working Pressure	12 bar (175 psi)

VIKING Pendent Sprinkler



TECHNICAL DATA	
Part No.	SHV-P-68C-15
SIN	VK102
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chrome Finished
Maximum Working Pressure	12 bar (175 psi)

VIKING Upright Sprinkler



TECHNICAL DATA	
Part No.	SHV-U-68C-15
SIN	VK100
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chrome Finished
Maximum Working Pressure	12 bar (175 psi)

VIKING Horizontal Side Wall



TECHNICAL DATA	
Part No.	SHV-S-68C-15
SIN	VK104
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chrome Finished
Maximum Working Pressure	12 bar (175 psi)

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FIRE SPRINKLER SYSTEM

CD Concealed Pendent Sprinkler



TECHNICAL DATA	
Part No.	SHC-CH-15 (Concealed Sprinkler)
	SHC-CC-15 (White Cover Plate)
Size (NPT)	15mm (1/2")
Type	Standard Response
Bulb	5mm
Activation Temperature	68 °C
K-Factor	5.6 (80.6)
Finishing	Chromed Finished
Working Pressure	12 bar (175 psi)

VIKING Concealed Pendent Sprinkler



TECHNICAL DATA		
Part No.	SHV-CCH20034AB-SR-68C-15 (Concealed Pendent)	Standard Response
	SHV-CCF-13504-57W-15 (White Cover Plate)	
	SHV-CCH13503-68C-15 (Concealed Pendent)	Quick Response
	SHV-CCF-13504-57W-15 (White Cover Plate)	
SIN	VK492 (Standard Response) – UL Listed and FM Approved VK462 (Quick Response) – UL Listed	
Size (NPT)	15mm (1/2")	
Type	Standard Response & Quick Response	
Bulb	5mm (Standard Response) 3mm (Quick Response)	
Activation Temperature	68 °C	
K-Factor	5.6 (80.6)	
Finishing	Sprinkler – Brass Cover Plate - White	
Maximum Working Pressure	12 bar (175 psi)	

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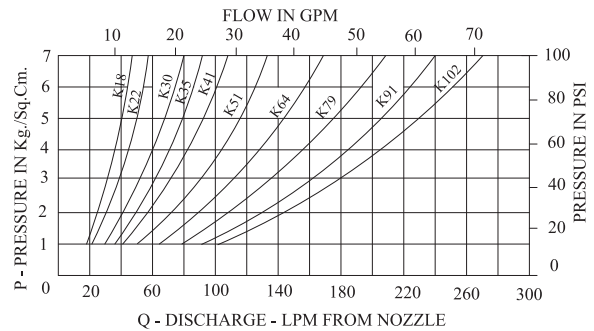
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FIRE SPRINKLER SYSTEM

HD Medium Velocity Water Spray Nozzle



DISCHARGE CHARACTERISTICS



$Q = K \sqrt{P}$ where P is supply pressure in Kg/sq.cm.,
 K = nozzle constant (K-factor) in metric
 US K factor = Metric K factor $MK \div 14.2745$

TECHNICAL DATA		
Model No.	MV-A without Strainer , MV-AS with Strainer	
Part No.	SSN-SNI-15	
Max. Working Pressure	12 bar (175 psi)	
Effective Working Pressure	1.4 to 3.5 bar (20 to 50 psi)	
End Connection	½" NPT / BSPT	
Included Water Spray Angle for Each K-factor	65°, 80°, 90°, 100°, 110°, 120°, 140° and 160°	
K-Factor	Metric	US
	K-18	1.26
	K-22	1.54
	K-26	1.8
	K-30	2.10
	K-35	2.45
	K-41	2.87
	K-51	3.57
	K-64	4.48
	K-79	5.53
	K-91	6.37
K-102	7.14	
Weight	0.115 kg (approx.)	
Finishing	Brass or Nickle Plated & Chrome Plated	
Approval	UL Listed	
Ordering Information	Specify K-Factor, spray angle, finish, model and end connection.	
CONSTRUCTION MATERIAL		
Component	Model MV-A	Model MV-AS
Housing	Forged Brass, IS:291, GR.-1 (Equivalent to ASTM B21)	Forged Brass, IS:291, GR.-1 (Equivalent to ASTM B21)
Pin	Brass, IS:291, GR.-1 (Equivalent to ASTM B21)	Brass, IS:291, GR.-1 (Equivalent to ASTM B21)
Deflector	Brass, IS:2768 (Equivalent to ASTM B36)	Brass, IS:276 (Equivalent to ASTM B36)
Strainer	N/A	Copper

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FIRE SPRINKLER SYSTEM



Sprinkler Guard



TECHNICAL DATA	
Part No.	SR-SG
Size	15mm (1/2")
Material	Mild Steel
Finishing	Chrome Plated

Recessed Sprinkler Rosette



TECHNICAL DATA	
Part No.	SR2-CH
Size	15mm (1/2")
Material	Mild Steel
Finishing	Chorme Plated

Plain Sprinkler Rosette



TECHNICAL DATA		
Part No.	SR-CH-15	SR-CH-20
Size (mm)	15mm (1/2")	20mm (3/4")
Material	Stainless Steel 430	
Finishing	Natural	

Sprinkler Box



TECHNICAL DATA	
Part No.	CAB-SB-15 / CAB-SB-20
Size (mm)	355 (W) x 110 (D) x 180 (H)
No. of Sprinklers	24 units
Material	Mild Steel
Finishing	Epoxy Powder Red

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FIRE SPRINKLER SYSTEM

Sprinkler System Flow Meter



TECHNICAL DATA			
Part No.		Type	Orifice Size(mm)
Flow Meter	Gauge		
SFM-OH1	SFG-OH1	OH1	31.0
SFM-OH2	SFG-OH2	OH2	40.0
SFM-OH3	SFG-OH3	OH3	43.0
SFM-OH3S	SFG-OH3S	OH3 Special = OH4	50.0
SFM-XHH-7.5	SFG-XHH-7.5	XHH 7.5mm/min	58.5
SFM-XHH-10	SFG-XHH-10	XHH 10mm/min	62.0

TECHNICAL DATA							
Hazard Class	Sprinkler height h above the control valve set(s) (m)	Pump nominal data		Flow Characteristic (see Note)			
		Pressure at pump outlet 'A' gauge (bar)	Flow (L/min)	Max Demand flow		Design flow	
				Pressure at 'C' Gauge (bar)	Flow (L/min)	Pressure at 'C' Gauge (bar)	Flow (L/min)
LH (Wet or pre-action)	$h \leq 15$	1.5	300	3.7	225	-	-
	$15 < h \leq 30$	1.8	340	5.2	225	-	-
	$30 < h \leq 45$	2.3	375	6.7	225	-	-
OH1 (Wet or pre-action)	$h \leq 15$	1.2	900	2.2	540	2.5	375
	$15 < h \leq 30$	1.9	1 150	3.7	540	4.0	375
	$30 < h \leq 45$	2.7	1 360	5.2	540	5.5	375
OH1 (Dry) OH2 (Wet or pre-action)	$h \leq 15$	1.4	1 750	2.5	1 000	2.9	725
	$15 < h \leq 30$	2.0	2 050	4.0	1 000	4.4	725
	$30 < h \leq 45$	2.6	2 350	5.5	1 000	5.9	725
OH2 (Dry) OH3 (Wet or pre-action)	$h \leq 15$	1.4	2 250	2.9	1 350	3.2	1 100
	$15 < h \leq 30$	2.0	2 700	4.4	1 350	4.7	1 100
	$30 < h \leq 45$	2.5	3 100	5.9	1 350	6.2	1 100
OH3 (Dry) OH4 (Wet or pre-action)	$h \leq 15$	1.9	2 650	3.0	2 100	3.5	1 800
	$15 < h \leq 30$	2.4	3 050	4.5	2 100	5.0	1 800
	$30 < h \leq 45$	3.0	3 350	6.0	2 100	6.5	1 800

NOTE: The flow characteristic pressures shown are as measured at the 'C' gauge of the control valve set(s).

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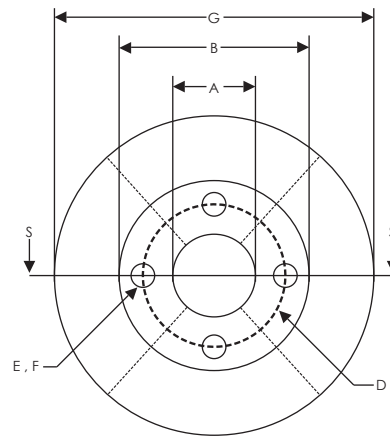
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FIRE SPRINKLER SYSTEM

Vortex Inhibitor



TECHNICAL DATA												
Material	Mild Steel											
Finishing	Galvanised Coating											
Thickness	Top Plate						Bottom Plate					
	4mm						4mm					
Part No.	Size (B.S 10 Table E Flanges)											
	Internal Diameter		External Diameter		Flange Thickness	Bolt Circle Diameter		Diameter of Bolt		No. of Holes	External Plate Diameter	Height
	(A)		(B)		(C)	(D)		(E)		(F)	(G)	(H)
	Approximately											
	mm	inch	mm	inch	mm	mm	inch	mm	inch	nos	mm	mm
SVI-050	50	2"	152	6"	14.3	114	4-1/2"	16	5/8"	4	272	76
SVI-065	65	2 1/2"	165	6-1/2"	14.3	127	5"	16	5/8"	4	272	76
SVI-080	80	3"	184	7-1/4"	14.3	146	5-3/4"	16	5/8"	4	319	76
SVI-100	100	4"	216	8-1/2"	16	178	7"	16	5/8"	8	380	100
SVI-150	150	6"	279	11"	17.5	235	9-1/4"	19	3/4"	8	468	100
SVI-200	200	8"	336	13-1/4"	19	292	11-1/2"	19	3/4"	8	502	100
SVI-250	250	10"	406	16"	22.2	355.6	14"	19	3/4"	12	587	100
SVI-300	300	12"	578	22-3/4"	25	406	16"	22.5	7/8"	12	637	100

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FIRE SPRINKLER SYSTEM

Firesure FM and LPCB Approved Flowmeters



APPROVED FOR SPRINKLER FIRE PUMP TESTING

- FM and LPCB approvals.
- Flange or groove connections.
- Horizontal and vertical pipes-lines.
- Highly stable flow readings.
- Easy to read flow scales.
- Simple and quick installation.
- FM meter scale in US GPM and l/min.

TECHNICAL DATA								
Pipe OD	Nominal		Meter Code	Flow Test Ranges		Pump Duty	LPC Approval Ref.	FM Approval Ref. FS
mm	mm	Inches		LPCB dm ³ /min	FM US GPM	US GPM		
60.3	50	2	LF100*	150 - 700		100	464a/01	
88.9	80	3	DUO F200	300 – 1600	100 – 400	150; 200	464a/02	80FLFM
114.3	100	4	DUO F450	500 – 3500	150 – 900	250; 300; 450	464a/03	100FLFM
165.1 / 168.3	150	6	DUO F1000	900 – 7900	250 – 2000	500; 750; 1000	464a/04	150FLFM
219.1	200	8	DUO F2000	2000 – 15000	750 – 4000	1250; 1500; 2000	464a/05	200FLFM



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UNIQUE FIRE INDUSTRY SDN BHD Co. No. 418731-U

ADDRESS

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FIRE SPRINKLER SYSTEM

PLATON Fire Sprinkler Flow Meter



TECHNICAL DATA							
Model	SGUV Mark 2						
Part No.	SPFM-100-F			SPFM-150-F			
Size (mm)	100			150			
Orifice Plate	Stainless Steel mounted in a 38mm thick, red polyester coated steel carrier ring						
Measuring Tube	Borosilicate glass with 100mm fused-in ceramic scale						
Float	Stainless Steel						
Accuracy	±5% at various test flows specified by LPCB						
'O' Seals	Nitrile						
Indicator Housing	Die-cast aluminium with white polyester coating, black bezel and perspex window						
Impulse Pipe	Bright nickel plated copper with plated brass connections						
Filter Unit	316 Stainless Steel element with 1.5mm perforations, TPX tube, plated brass connections and nitrile 'O' seals						
Flow Range	150-12,500 dm ³ /min						
Pressure Limitation	12 bar g @ 20°C						
Pressure Test	30 bar hydraulic						
Pressure Drop	At max flow rate 65% of the orifice pressure loss of 354"WG is recovered						
Standard Flow Ranges							
Flanged		Grooved		Nominal Pipe Size (mm)	Flow Ranges (dm ³ /min)	Test Flows (dm ³ /min)	Test Flows Accuracy (dm ³ /min)
LPCB	PLATON	LPCB	PLATON				
088a/5	F1/5	088a/10	F1/10	50	150 - 750	500 800	± 25 ± 40
088a/6	F1/6	088a/11	F1/11	80	300 - 2300	1300 1500	± 65 ± 75
088a/7	F1/7	088a/12	F1/12	100	500 - 3500	2200 2500 3500	± 110 ± 125 ± 175
088a/8	F1/8	088a/13	F1/13	150	900 - 8200	4500 5000	± 225 ± 250
088a/9	F1/9	088a/14	F1/14	200	2500 - 12500	7000 9000	± 350 ± 450

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FIRE SPRINKLER SYSTEM

UNIQUE Control Pressure Switch (Single Type)



TECHNICAL DATA										
Model No.	Part No.	Use	Pressure Range (bar)		Differential Pressure (bar)		Factory Setting Pressure (bar)		Max. Bellows Pressure (kgf/cm ²)	Weight (kg)
			Min	Max	Min	Max	On	Off		
GP-106	SPU-06B	Hose Reel Pump	0	6	0.6	4	2	3	11	0.42
GP-110	SPU-10B	Sprinkler Pump	1	10	1	3	4	6	16.5	
GP-120	SPU-20B	Wet Riser & Hydrant Pump	5	20	3	5	15	12	16.5	
GP-130	SPU-30B	Hydrant Pump over 20 bar	5	30	3	10	20	15	40	

Note:

- Allowable fluid temperature : -10°C to 120°C
- Micro switch ensures reliable switching
- In-built SPDT contact mechanism

UNIQUE Water Flow Switch



TECHNICAL DATA	
Model No.	HFS-25
Part No.	SPU-FS
Size (NPT)	1"
Operating Pressure	10 bar
Max Temperature	100°C
Electric Amps	15 Amps 250Vac
Switch Acting	SPDT
Bellows Life	50k Cycles
Materials	Cover : ABS Body (Seesaw Plate) : Mild Steel Paddle : Stainless Steel
Min. Flow Rate	8 L/min
Ingress Protection	IP45

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FIRE SPRINKLER SYSTEM

IRON MAN Water Flow Detector



TECHNICAL DATA						
Part No	SWD-IM-050	SWD-IM-065	SWD-IM-080	SWD-IM-100	SWD-IM-150	SWD-IM-200
Size (mm)	50	65	80	100	150	200
Flow Sensitivity	4 – 10 GPM (15 – 38 LPM)					
Contact Rating	8A @ 250 VAC 3A @ 24 VDC 2.5A @ 30 VDC					
Working Pressure	450 psi					
Working Temperature	0°C to 68°C					



SYSTEM SENSOR Water Flow Detector



TECHNICAL DATA						
Model No.	WFD20	WFD25	WFD30-2	WFD40	WFD60	WFD80
Part No.	SWD-050	SWD-065	SWD-080	SWD-100	SWD-150	SWD-200
Size	2"	2 1/2"	3"	4"	6"	8"
Static Pressure Rating	450 psi					
Operating Temperature	0° to 49°C					
Compatible Pipe	Steel water pipe, Sch 10 to 40					
Enclosure Rating	NEMA 4 - Suitable for indoor/outdoor use					

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FIRE SPRINKLER SYSTEM



SYSTEM SENSOR Supervisory Switch



OSY2

PIBV2



TECHNICAL DATA	
Model No.	OSY2
Part No.	SWD-OSY
Description	Outside Screw and Yoke Valve Supervisory Switch
Overall Switch Dimension	146mm(H) x 89mm(W) x 82mm(D)
Bracket Span	57mm(H) x 171mm(W) x 25mm(D)
Operating Temperature Range	0° to 49°C
Enclosure Rating	NEMA 3R mounted with the actuator vertical

TECHNICAL DATA	
Part No.	PIBV2
Overall Switch Dimension	108mm(H) x 89mm(W) x 82mm(D)
Mounting	1/2" NPT Nipple
Operating Temperature Range	-40°C to 49°C
Enclosure Rating	NEMA 3R mounted with the actuator vertical

* It can be used for indoor and outdoor

SYSTEM SENSOR Alarm Pressure Switch



TECHNICAL DATA		
Model No.	EPS 10-1	EPS 10-2
Part No.	SWD-APS-10-1	SWD-APS-10-2
Maximum Operating Pressure	250 psi	
Maximum Adjustment Pressure	4-20 psi	
Factory Setting	Operates at rising pressure 4 to 8 psi	
Dimension	130mm(H) x 84mm(W) x 108mm(L)	
Operating Temperature Range	-40°C to 71°C	
Enclosure Rating	NEMA 4 for indoor and outdoor use	

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FIRE DETECTION & ALARM SYSTEM

A fire detection and alarm system is essential for noticing a fire early in its development. Steps can then be quickly taken to evacuate people from the building and to stop the fire in its infancy before it can cause major damage to property.

Fire detection can be both automatically and manually actuated. In an automatic system, an alarm is automatically sounded when a fire is detected using a system which monitors environmental changes that happen due to combustion of materials. The changes in the environment include the presence of smoke, increase in temperature and the rate of rise of heat in an enclosed area. Manually actuated alarm devices such as break glass stations and single station smoke alarms are usually installed in places where such devices can be easily reached and operated, such as near exits.



FIRE DETECTION & ALARM SYSTEM

SYSTEM SENSOR Photoelectric Smoke Detector



TECHNICAL DATA	
Part No.	FAU-P882(Detector), FAU-PB882(Base)
Model No.	882 (Detector) , B801RA(Base)
Operating Temperature Range	0-49°C
Operating Humidity Range	10% to 93% relative humidity, non-condensing
Latching Alarm	Reset by momentary power interruption
Operating Voltage	8.5-35 V DC
Standby Current	≤ 90µA
Alarm Current	Min-10mA Max-130mA
Diameter	102mm (4")
Height (including base)	50mm (2")

SYSTEM SENSOR Mechanical Heat Detector



TECHNICAL DATA	
Model No.	5601
Part No.	FAU-H5601
Maximum Installation Temperature	38°C
Operating Humidity Range	5% to 95% Relative Humidity
Dimension with Mounting Bracket	Ø116mm x 43mm (H)
Alarm Temperature	57°C
Rate-of-Rise Threshold	8.3°C rise per minute
Operating Voltage/Contact Ratings	6-125 VAC / 3A 6-28VDC / 1A 125VDC / 0.3A 250VDC / 0.1A
Input Terminal	14-22 AWG
Diameter	116mm
Height (including base)	43mm

UNIQUE Call Point



TECHNICAL DATA	
Model No.	UNI-118
Part No.	FAE-MCP
Size	88mm(W) x 88mm(H) x 55mm(D)
Current Ratings	12/24 V DC 10A 48V DC 3A 250V AC 10A
Net/Gross Weight	0.15/0.18kg
Connection	Terminal – Max 2.5mm ² Cable
Material	ABS plastic with polycarbonate panel

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FIRE DETECTION & ALARM SYSTEM

UNIQUE Single Station Smoke Detector



TECHNICAL DATA	
Part No.	FAE-SD-426B
Model	SD-426B
Power Supply	DC9V Replaceable Battery
Smoke Sensitivity	0.08~0.16dB/m (EN standard)
Standby Current	8 μ A
Alarm Current	\leq 45mA
Temperature Range	0°C to 50°C
Humidity	0 ~ 95% RH, no condensation or icing
Alarm Sound Level	85 dB @ 3m

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UNIQUE227 FIRE SUPPRESSION SYSTEM

The clean agent fire suppression system and its components are agency tested for total flooding applications and should be used in accordance with the guidelines contained in National Fire Protection Association (NFPA) 2001 : Standard on Clean Agent Fire Extinguishing Systems.

The clean agent fire suppression systems are safe for people, electrically non-conductive, non-corrosive, free of residue and have zero ozone depletion potential (ODP) to the environment.



UNIQUE227 FIRE SUPPRESSION SYSTEM



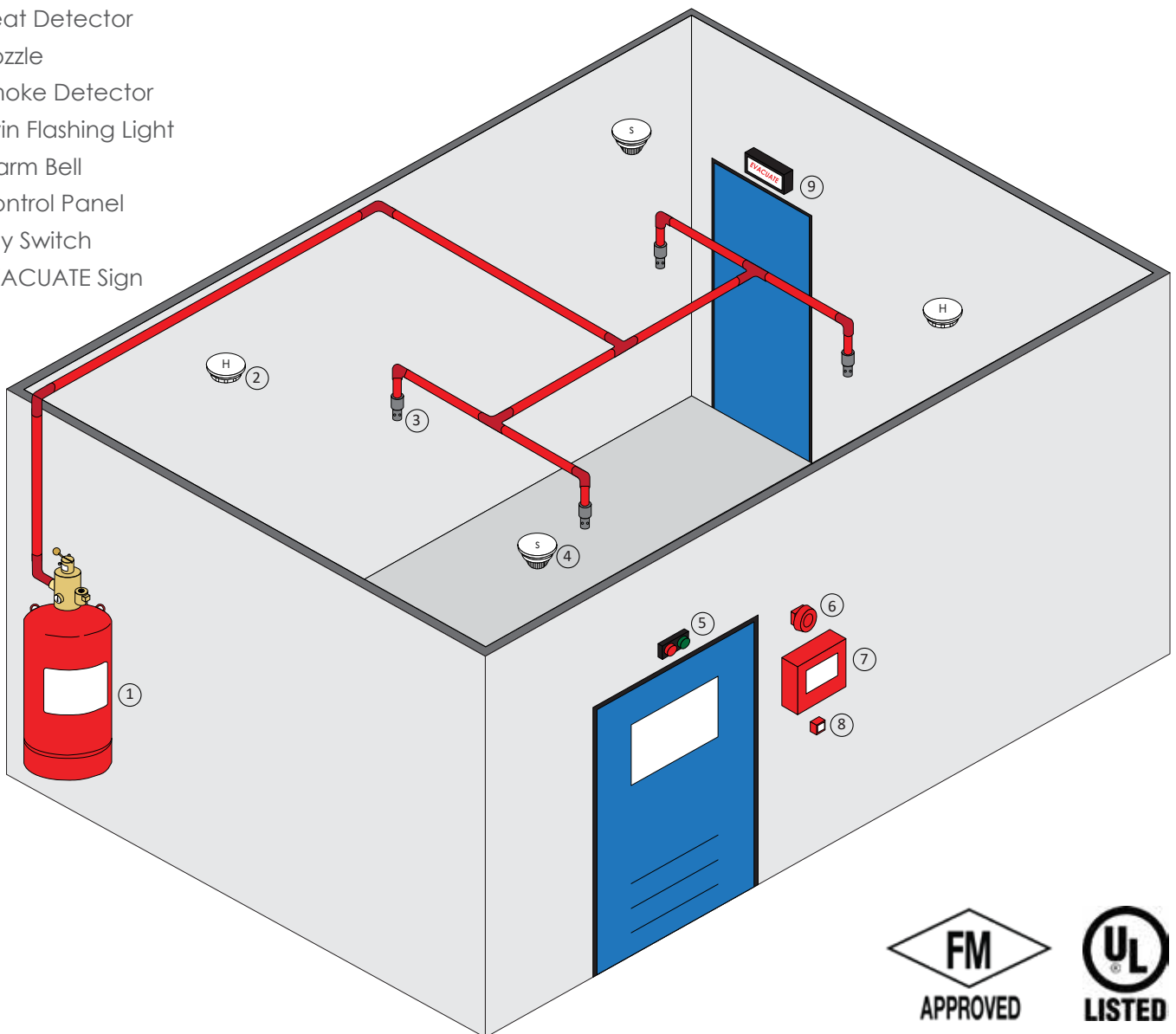
Unique227 Fire Suppression systems are agency tested for total flooding applications and should be used in accordance with the guidelines contained in NFPA 2001. The design of such a system requires that the Unique227 chemical agent to be discharged from its container within 10 seconds and be thoroughly mixed throughout the protected volume, reaching a minimum concentration level of 7%.

UNIQUE227 Fire Suppression System Features

- Safe for people
- Safe for environment
- Leaves no residue after discharge

UNIQUE227 System Typical Arrangement

1. Cylinder and Valve Assembly
2. Heat Detector
3. Nozzle
4. Smoke Detector
5. Twin Flashing Light
6. Alarm Bell
7. Control Panel
8. Key Switch
9. EVACUATE Sign



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UNIQUE227 FIRE SUPPRESSION SYSTEM



DESCRIPTION

Unique 227 is a trademark of Unique's HFC-227ea, Heptafluoropropane. Unique 227 is an effective fire extinguishing agent that can be used on many types of fires ranging from sensitive electrical equipment to industrial applications using flammable liquids.

Unique 227 is ideal for applications where clean-up of other medium presents a problem, where an electrically non-conductive medium is needed and where people compatibility is an overriding factor. When environmental impact becomes a consideration, Unique 227 is particularly useful. It has Zero ozone-depleting potential, low global warming potential and short atmospheric lifetime. These characteristics make it suitable not only for new installations using Unique's total flooding system, but also for Halon 1301 replacement applications. Unique 227 is an odorless, colorless liquefied compressed gas. It is stored as a liquid and dispensed into the hazard as a colorless, electrically non-conductive vapor that is clear and does not obscure physical vision. It leaves no residue and has acceptable toxicity for use in occupied spaces at design concentration. Unique 227 extinguishes a fire by a combination of chemical and physical mechanisms. Unique 227 does not displace and therefore is safe for use in occupied spaces without fear of oxygen deprivation.

TECHNICAL DATA	
PHYSICAL AND CHEMICAL CHARACTERISTICS	
Chemical Name	Heptafluoropropane (CF ₃ CHFCF ₃)
General	Colorless, Odorless Liquefied Gas
Molecular Weight	170.03
Boiling Point	-16.4°C/2.48°F
Freezing Point	-131°C/-203.8°F
Vapor Pressure@21°C/70°F	58.8 psia
Critical Temperature	101.7°C/215.1°F
Critical Pressure(psia)	422.3 psia
Vapor Density(AIR=1)	6.04
Water Reactive	No
Specific Gravity(H₂O=1)	1.46
Percent Volatile(by volume)	n/a
Evaporation Rate(Butyl acetate=1)	n/a
Viscosity@ 20°C/68°F	n/a
Water Solubility(V/V@20°C/68°F)	260mg/L
Ozone Depletion Potential	0
Estimated Atmospheric Lifetime(years)	31-42

Unique 227 fully complies with the standards of ASTM D6064 and NFPA 2001 and has achieved a minimum purity of 99.95 percent and less than 10 ppm of moisture. It has less than 1 ppm acidity as HF. The non-volatile residue is less than 0.05g/100ml.



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UNIQUE227 FIRE SUPPRESSION SYSTEM

Clean Agent Cylinders



TECHNICAL DATA							
Model No.	Cylinder Size	Valve Size	Dimension			Max Fill	Min Fill
			A	B	C		
UFI 90020-E*	20 lb	1"	10.750"	13.632"	18.633"	20 lb	9 lb
UFI 90035-E*	35 lb	1"	10.750"	18.677"	23.678"	35 lb	16 lb
UFI 90070-E*	70 lb	1"	10.750"	28.166"	33.167"	71 lb	31 lb
UFI 90100-F*	100 lb	1"	12.795"	26.709"	31.709"	100 lb	44 lb
UFI 90150-E*	150 lb	1-1/2"	12.795"	37.343"	43.172"	152 lb	66 lb
UFI 90250-E*	250 lb	1-1/2"	16.000"	40.099"	45.928"	253 lb	109 lb
UFI 90375-E*	375 lb	2-1/2"	16.000"	57.248"	65.351"	379 lb	163 lb
UFI 90560-E*	560 lb	2-1/2"	20.000"	55.516"	63.619"	561 lb	241 lb
UFI 90650-F*	650 lb	3"	20.000"	63.335"	71.438"	665 lb	285 lb

Note : Clean agent cylinders with stainless steel bodies and valves are available.
* add "-SS" when using Stainless Steel Valve



TECHNICAL DATA							
Model No.	Cylinder Size	Valve Size	Dimension			Max Fill	Min Fill
			A	B	C		
UFI 90800-E	800 lb	4"	30.000"	46.680"	57.254"	840 lb	360 lb
UFI 90800-F	800 lb	3"	30.000"	46.680"	53.710"	840 lb	360 lb
UFI 91000-E	1000 lb	4"	30.000"	54.767"	64.617"	1038 lb	445 lb
UFI 91000-F	1000 lb	3"	30.000"	54.570"	61.600"	1038 lb	445 lb
UFI 91200-E	1200 lb	4"	30.000"	62.135"	71.985"	1211 lb	519 lb

Note : Clean agent cylinders with stainless steel bodies and valves are available.

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UNIQUE227 FIRE SUPPRESSION SYSTEM

Cylinder Bracket



TECHNICAL DATA

Model No.	Description	Cylinder O.D	Mounting
UFI 50139	20, 35 & 70 lb Cylinder Bracket	10.75"	Wall
UFI 60780	100 & 150 lb Cylinder Bracket	12.80"	Wall
UFI 60760	250 & 375 lb Cylinder Bracket	16.00"	Wall
UFI 60770	560 & 650 lb Cylinder Bracket	20.00"	Wall
UFI 60790	800, 1000 & 1200 lb Cylinder Bracket	30.00"	Wall
UFI 60792	800, 1000 & 1200 lb Cylinder Bracket	30.00"	Floor

Discharge Nozzle



TECHNICAL DATA

Model No.	Description	Model No.	Description
UFI 60704-2	½" (180°) Sidewall	UFI 60707-2	1 ¼" (180°) Sidewall
UFI 60704-3	½" (360°) Central	UFI 60707-3	1 ¼" (360°) Central
UFI 60705-2	¾" (180°) Sidewall	UFI 60708-2	1 ½" (180°) Sidewall
UFI 60705-3	¾" (360°) Central	UFI 60708-3	1 ½" (360°) Central
UFI 60706-2	1" (180°) Sidewall	UFI 60709-2	2" (180°) Sidewall
UFI 60706-3	1" (360°) Central	UFI 60709-3	2" (360°) Central

Note: Aluminium Material: UFI 6070*; Brass Material: UFI 7070*; SS Material: UFI 8070*;

Local Manual Control (Plunge Type)



Model Number : UFI 61033-2

The Local Manual Control Plunger Type features a local lever driven push rod that depresses a schrader check valve through the latching solenoid when fitted onto the top of the solenoid, thereby venting the pressure from the top of the piston in the cylinder valve, allowing the piston to slide upward and commence cylinder discharge

- Use for manual actuation of cylinder
- Equipped with safety pull pin to prevent accidental discharge
- Solid brass construction
- Stainless steel operation lock-pin

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UNIQUE227 FIRE SUPPRESSION SYSTEM

Latching Solenoid



DESCRIPTION

Latching Solenoid is utilized to open a Schrader valve on the top fitting connector of the cylinder valve. The application gives an answer to a quick reaction and a high latching power to be utilized with the UNIQUE Fire Extinguishing Liquid Agent. It was resolved that a latching solenoid with a discretionary nearby manual control head is the best answer for the application.

The actuator is held in the latching position without power until a flag from the operator discharge control board removes the permanent magnet. Whenever discharge, the latching solenoid opens the cylinder valve enabling the quenching medium to release from the cylinder into the system. The latching solenoid is designed with an emergency release local manual control to manually force the pin to depress the cylinder valve to release the extinguishing medium when needed. In order to reset the system, the solenoid is to be manually returned to the latched position. This custom latching solenoid designed specifically for fire protection systems is UL listed and tested in accordance with UL508.

Features

- High latching forces
- Fast response
- Options
 - Manual release button cap
 - Reset tool
- UL approval-recognized to UL864
- Tested in accordance with UL508

Specification

- Manual actuation force : 12-40lb *f* (5.44 – 18kgf) max
- Operating force : 20.25 – 14.6lb*f* (90 – 65 N) min
- Power requirement : 24 VDC
- Current : 0.5A @ 24 VDC
- Electrical Connection : DIN 43 650-A / ISO 440 3 pin
- Operating Temperature Range : -4 to 131°F (-20 to **55°C**)
- Weight : 1.9lbs (.86kg)
- Dimensions
 - Body Diameter : 1.61 in (41 mm)



TECHNICAL DATA

Model No.	Description	Electrical Rating
UFI 50026-A	Latching Solenoid	24 VDC
Length	4.17 or 5.9 in (106 or 150 mm) with manual actuation cap	

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UNIQUE227 FIRE SUPPRESSION SYSTEM

Context Plus EP203/CON



Quality System Certificate No: 176
Assessed to ISO9001 : 2008



LPCB Ref. 176a
to BS EN 54 pts 2 & 4

TECHNICAL SPECIFICATION

Power Supply Specification	
Part No.	UFI227-ARCP
Main supply voltage	230 Vac , 50/60 Hz
Internal power supply	24 Vdc nominal
Max. output current	3A @ 230 Vac
Power rating (including charging)	1.5A cont, 3A peak
Detector Circuit Specification	
Number of conventional circuits	3 @ 21-28 Vdc
Max. no. of smoke/heat detectors per circuit	20
Max. combined no. of detectors & manual call points per circuit	32
Sounder Circuit Specification	
Number of conventional circuits	3 (two x 1st stage, one x 2nd stage)
Max. number of polarised sounder per circuit	10 @ 20mA each
Dimension	
Front Cover	467mm(W) x 293mm(H) x 100mm(D)
Back Cover	439mm(W) x 276mm(H) x 70mm (D)
Material of Case	Metal

*Applicable for Unique 227 Fire Suppression System

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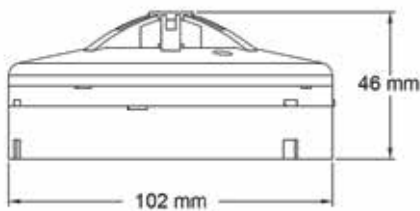
UNIQUE227 FIRE SUPPRESSION SYSTEM



UNIQUE AH-0626 Heat Detector



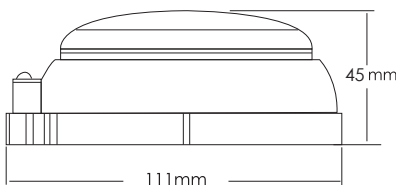
CONFIRMING TO
BS: 6391 TYPE 3



TECHNICAL DATA			
Model	AH-0626-2	AH-0626-3	AH-0626-4
Alarm Contact	N/A	N/A	0.8A @30V DC 0.4A @ 125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @ 24V DC 470Ω	40mA	40mA	45mA
Standby Current @ 24 V DC 470Ω	20 ~ 70μA		
Thermal Setting	60°C		
Ambient Temperature	0°C ~ +37.8°C		
Material	Fire-proof plastic		
Dimensions	102mm (Dia.) x 46mm(H)		
Weight	120g	120g	130g
Color	White		
Order information			
AH-0626-2	2-wire		
AH-0626-3	3-wire with remote indicator input		
AH-0626-4	4-wire with relay output		
Effective alert area			
Construction/ Height	Under 4m	4m~ 8m	
Fire-proof Building	90 m ²	45 m ²	
Ordinary Building	50 m ²	30 m ²	

*Applicable for Unique 227 Fire Suppression System

UNIQUE AH-0333 Heat Detector



TECHNICAL DATA	
Model No.	AH-0333
Part No.	FAE-H0333
Description	2 Wire
Alarm Current @ 24V DC 470 Ω	40mA
Operating Temperature Range	0°C to 55°C
Operating Humidity Range	10% to 93% Relative Humidity
Voltage Range	12V-30V DC
Sensitivity Setting	Rise rapidly in 30°C / per 30sec.
Material	Plastic
Size	Ø111mm x 45mm (H)
Weight	130g
Colour	White
EFFECTIVE ALERT AREA	
Construction/ Height	Under 4M 4M~ 8M
Fire-proof Building	90m ² 45m ²
Ordinary Building	50m ² 30m ²

*Applicable for Unique 227 Fire Suppression System and Carbon Dioxide Fire Extinguishing System

UNIQUE FIRE INDUSTRY SDN BHD Co. No. 418731-U

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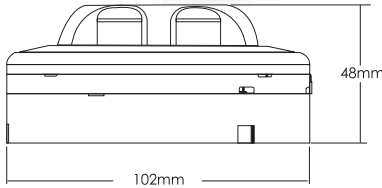
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UNIQUE227 FIRE SUPPRESSION SYSTEM



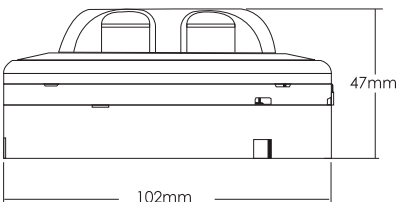
UNIQUE AH-0621 Photoelectric Smoke Detector



Specifications			
Part No.	FAE-P0621	FAE-P0621-3	FAE-P0621-4
Model No.	AH-0621-2	AH-0621-3	AH-0621-4
Alarm Contact	N/A	N/A	0.8A@30V DC 0.4A@125V AC
Voltage Range	12 ~ 30V DC		
Alarm Current @ 24V DC 470Ω	50mA	59mA	45mA
Standby Current @ 24 V DC 470Ω	140μA		25 – 75 μA
Sensitivity Setting	1.4% / ft ~ 2.4% / ft		
Ambient Temperature	0°C ~ +37.8°C		
Material	Plastic		
Dimensions	102mm (Dia.) x 48mm(H)		
Weight	130g	130g	145g
Color	White		
Order information			
AH-0621-2	2-wire		
AH-0621-3	3-wire with remote indicator input		
AH-0621-4	4-wire with relay output		
Effective alert area			
Building Height	Under 4m	4m to 20m	
Area Covered	150 m ²	75 m ²	

*Applicable for Unique 227 Fire Suppression System

UNIQUE AH-0711 Photoelectric Smoke Detector



TECHNICAL DATA	
Model No.	AH-0711
Part No.	FAE-P0711
Description	2 Wire
Alarm Current @ 24V DC 470 Ω	40mA
Operating Temperature Range	-10°C to 55°C
Operating Humidity Range	10% to 93% Relative Humidity
Voltage Range	12V-30V DC
Standby Current @ 24V DC 470 Ω	25 - 75 μA
Sensitivity Setting	15% obs/m
Material	Plastic
Size	Ø102mm x 50mm (H)
Weight	130g
Colour	White
EFFECTIVE ALERT AREA	
Building Height	Under 4m 4m to 20m
Area Covered	150m ² 75m ²

*Applicable for Unique 227 Fire Suppression System and Carbon Dioxide Fire Extinguishing System

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UNIQUE227 FIRE SUPPRESSION SYSTEM



DEMCO Dome Bell



DEMCO Motorized Bell



UNIQUE Fire Alarm Bell



Decibel Ratings / Specification				
Model	Size	Part no.	Decibel Rating @ 3M (10ft)	Gross Weight
D-122-6	6"	FAD-6DB-UL	95dB	700g
Available Models				
Model	Size	Type	Voltage	
D-122-6	6"	Motorized	24V DC	
Current Consumption				
Operating Current		0.05 A		

TECHNICAL DATA				
Model no.	DC Type	Decibel Rating @ 1m (3ft)		
	Voltage	Amps	150mm (6")	200mm (8")
D132	12	0.05	95 dB	95 dB
	24	0.03	95 dB	103 dB
	Net / Gross Weight		748 / 812g	1130 / 1280g

TECHNICAL DATA				
Model No.		UNI-102		
Part No.		FAE-6AB		
Supply Voltage		110/ 240V (AC)		
		12/24V (DC)		
Sound Output		92 - 105 dB		
Current Consumption		0.05 A		
Size		150mm(6")		
Finishing		Red		
DECIBEL SPECIFICATION				
AC Type		Decibel Rating @ 1m (3ft)		
Voltage	Amps	100mm(4")	150mm (6")	200mm (8")
110	0.015	92dB	95dB	97dB
240	0.033	98dB	105dB	106dB
DC Type		Decibel Rating @ 1m (3ft)		
Voltage	Amps	100mm(4")	150mm (6")	200mm (8")
12	0.08	95dB	99dB	100dB
24	0.05	96dB	103dB	105dB

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UNIQUE227 FIRE SUPPRESSION SYSTEM

GP Sealed Lead Acid Battery



TECHNICAL DATA			
Part No.	GPP1272	GPP12120	GPP12170
Model No.	BAT-007AH-GP	BAT-012AH-GP	BAT-017AH-GP
Nominal Voltage (V)	12	12	12
Capacity (AH)	7.2	12.0	17.0
Length (mm)	151	151	181
Width (mm)	65	98	77
Height (mm)	94	95	167
Total Height (mm)	100	101	167
Weight (kg)	2.35	3.70	5.50

UNIQUE Twin Flashing Lights



TECHNICAL DATA	
Model No.	UNI-104 WP/L
Part No.	FAE-FLO-LED
Lens	High efficient prismatic polycarbonate lens optimized for omnidirectional viewing.
Luminary	Filament Bulb/Ultra Bright LED
Size	210mm(W) x 77mm(D) x 108mm(H)
Material (Casing & Hood)	Mild Steel
Finishing	Black casing with green and red lens
Operating Current	0.02A

*Applicable for Unique 227 Fire Suppression System and Carbon Dioxide Fire Extinguishing System

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UNIQUE227 FIRE SUPPRESSION SYSTEM

Evacuate Sign



TECHNICAL DATA	
Model No.	UNI-110L
Part No.	FAE-ES
Dimension	260 (L) x 110 (H) x 80 (W) mm
Lens Colour	Red
Casing Colour	Black
Lens Material	Polycarbonate
Casing Material	Mild Steel
Operating Voltage	24V DC
Operating Current	0.03A

*Applicable for Unique 227 Fire Suppression System

UNIQUE Manual Key Switch



TECHNICAL DATA	
Model No.	UNI-105
Part No.	FAE-KS
Size	105mm(W) x 105mm(D) x 100mm(H)
Material	ABS Plastic
Weight	0.76kg
Colour	Signal Red

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UNIQUE227 FIRE SUPPRESSION SYSTEM

Power Line Surge Protector



TECHNICAL DATA	
Model No.	240-5A-PKT10
Part No.	UF1227SP-S.FILTER
Location Category	Indoor, Boundary LPZ1 – LPZ2
Standard Compliance	IEC 61643-1 Class III, AS / NZS 1768, IEEE C62.41, IEC 6-1000-4-5, UL1449 3rd Edition
Number Of Ports	1
Method Of Mounting	Fixed (DIN 35mm Railway)
Maximum Continuous Operating Voltage (U _c)	300V
Nominal Continuous Operating Voltage (U _n)	240V
Maximum Discharge Current (I _{max})(8/20μs)	10kA
Nominal Discharge Current (I _n)(8/20μs)	3kA
Rated load current (I _l)	5A
Protection Level (U _p)	<600V
Mode of protection	L-L, L-E, L-N & N-E
IP Code	IP20
Dimensions	92mmx17mmx62mm
Working environments	Temperature -40°C to +70°C, Relative Humidity ≤ 95%
Cable size	0.75 – 2.5mm ²

*Applicable for Unique 227 Fire Suppression System



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UNIQUE227 FIRE SUPPRESSION SYSTEM

Signal Line Surge Protector



TECHNICAL DATA	
Model No.	SP1-24PKT-DC
Part No.	UFI227SP-S.LINE
Standard Compliance	5kV (10/700 μ s) to International Telecommunication Union (ITU-T K.20, K.21 and K.45)
Maximum Operating Voltage, U_c	32Vdc
Nominal Voltage, U_n	42Vdc
Maximum discharge current, I_{max} (8/20 μ s)	10kA
Nominal discharge current, I_n (8/20 μ s)	5kA
Load Current, I_L	2A
Voltage protection level, U_p (10/700 μ s, 5kV)	<48Vdc
In-line resistance (per line \pm 10%)	<1.0 Ω
Response time, t_A	\leq 1ns
Frequency (at -3dB)	20MHz
Insertion loss	\leq 0.5dB
Protection Mode	Line-Line and Line-PE
Method of mounting	DIN 35mm railway
IP code	IP20
Dimensions	90mm x 65mm x 13mm :Pluggable
Working environments	Temperature -20°C - +80°C, Relative humidity \leq 95%

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Unique227 Filling and Nozzle Drilling Stations

Unique227 filling and nozzle drilling processes are in accordance with UL's requirements, including the Follow-Up Service Procedure. Having passed the Initial Production Inspection (IPI) by a UL representative, we are authorized for shipment bearing the UL Mark.

Our clients can be assured that only Unique227 (trademark of Unique's HFC-227ea) will be used in our UL-approved fire suppression systems. Only original parts will be assembled for the UL tested performance under normal conditions and in the event of fire.

Our UL-certified filling and nozzle drilling stations also allow us to replace discharged cylinders in a much more efficient manner, and ensure that the full discharge of system within 10 seconds can be achieved, with precise nozzle drilling and checking methods practiced.



Follow-Up Service Inspection Report
SATIS201111052121004

INSPECTION DETAILS			
Inspected By:	Inspector:	UL Mark:	Inspector:
Inspected Location:	UL Mark:	UL Mark:	UL Mark:
Product Name:	Product Name:	Product Name:	Product Name:
Product Part:	Product Part:	Product Part:	Product Part:
Product Model:	Product Model:	Product Model:	Product Model:
Product Serial:	Product Serial:	Product Serial:	Product Serial:
Product Material:	Product Material:	Product Material:	Product Material:
Product Weight:	Product Weight:	Product Weight:	Product Weight:
Product Length:	Product Length:	Product Length:	Product Length:
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Product Volume:	Product Volume:	Product Volume:	Product Volume:
Product Pressure:	Product Pressure:	Product Pressure:	Product Pressure:
Product Temperature:	Product Temperature:	Product Temperature:	Product Temperature:
Product Humidity:	Product Humidity:	Product Humidity:	Product Humidity:
Product Wind Speed:	Product Wind Speed:	Product Wind Speed:	Product Wind Speed:
Product Wind Direction:	Product Wind Direction:	Product Wind Direction:	Product Wind Direction:
Product Rainfall:	Product Rainfall:	Product Rainfall:	Product Rainfall:
Product Snowfall:	Product Snowfall:	Product Snowfall:	Product Snowfall:
Product Icefall:	Product Icefall:	Product Icefall:	Product Icefall:
Product Fogfall:	Product Fogfall:	Product Fogfall:	Product Fogfall:
Product Cloudcover:	Product Cloudcover:	Product Cloudcover:	Product Cloudcover:
Product Visibility:	Product Visibility:	Product Visibility:	Product Visibility:
Product Air Quality:	Product Air Quality:	Product Air Quality:	Product Air Quality:
Product Water Quality:	Product Water Quality:	Product Water Quality:	Product Water Quality:
Product Soil Quality:	Product Soil Quality:	Product Soil Quality:	Product Soil Quality:
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Product Vibration Level:	Product Vibration Level:	Product Vibration Level:	Product Vibration Level:
Product Radiation Level:	Product Radiation Level:	Product Radiation Level:	Product Radiation Level:
Product Magnetic Field Level:	Product Magnetic Field Level:	Product Magnetic Field Level:	Product Magnetic Field Level:
Product Electric Field Level:	Product Electric Field Level:	Product Electric Field Level:	Product Electric Field Level:
Product Thermal Level:	Product Thermal Level:	Product Thermal Level:	Product Thermal Level:
Product Acoustic Level:	Product Acoustic Level:	Product Acoustic Level:	Product Acoustic Level:
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Product Recovery Level:	Product Recovery Level:	Product Recovery Level:	Product Recovery Level:
Product Continuity Level:	Product Continuity Level:	Product Continuity Level:	Product Continuity Level:
Product Availability Level:	Product Availability Level:	Product Availability Level:	Product Availability Level:



UL - Certified Nozzle Drilling Station



UL - Certified Filling Station

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Room Integrity Test

Enclosure Integrity Test

Now, the NFPA 2001, NFPA 12A, ISO 14520 and EN 15004 recognize an enclosure integrity test as part of the acceptance procedure for all clean agent systems. This includes halocarbon and inert agents. The comprehensive test and calculation procedure predicts how long the agent would stay in the room if it were ever discharged.

The Enclosure Integrity Test's primary goal is to predict the enclosure's retention time in the event that the Clean Agent Fire Suppression System is discharged. This is accomplished by performing a Door-Fan test.



What is a Door Fan Test ?

Door Fan Test, also known as a Room Integrity Fan Test, is simply a way to measure the leakage of a protected room. A large fan is temporarily installed in the doorway of the protected room to be tested, with the fan blowing into the room (pressurizing the room). The fan speed is adjusted to obtain flow pressure equivalent to the pressure exerted during a fire suppression system discharge. The fan is then reversed on the door to draw air from the room (depressurizing the room). The airflow and pressure readings obtained are entered into a computer program designed to calculate the equivalent leakage area (ELA) for the room. Then, the software will calculate the retention time and determine whether it exceeds the minimum retention time of 10 minutes.

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UNIQUE227 FIRE SUPPRESSION SYSTEM

Liquid Level Indicator (Optional Components)



DESCRIPTION

The liquid level indicator is a simple, manually operated device, which provides a means to determine the Clean Agent liquid level in vertically mounted agent storage containers. Once the liquid level is determined, it can then be converted into the weight of Clean Agent present in the agent storage container.

OPERATION

A magnet equipped float moves with the liquid level along the unit stem. Level readout is obtained by simply removing the protective cap and pulling out a calibrated tape until magnetic interlock with the float is felt. With the tape in this position, the reading is obtained at the point where the tape emerges from the unit housing.

When the liquid level is determined, the reading is then referred to a chart in the Engineering Manual and the corresponding weight of Clean Agent is determined. Accurate readings can be obtained over a +40F to +90F temperature range.

FEATURES

- Reduced maintenance time — weight in an agent storage container can be determined in a fraction of the time it would take to remove and weigh them.
- Continuous fire protection — use of the liquid level indicator does not require taking out the cylinder from the system, thus providing uninterrupted fire protection.
- Field installation capability — the indicator can easily be installed in the field using a single wrench as long as the container is empty and is equipped with a mounting boss.
- Compact — when not in use, the unit requires no more space than that required by the container.
- Flexibility — the flexible tape design allows the unit to be used in tight spaces that would otherwise hinder the use of a rigid type indicator "stick".
- Availability — units are available for all Unique containers from sizes of



Model Number	Description
UFI 60020	Liquid Level Indicator for 150 LB & 250 LB cylinders
UFI 60020-1	Liquid Level Indicator for 375 LB & 560 LB cylinders
UFI 60020-5	Liquid Level Indicator for 650 LB cylinders
UFI 60020-4	Liquid Level Indicator for 800 LB cylinders
UFI 60020-3	Liquid Level Indicator for 1000 LB cylinders
UFI 60020-2	Liquid Level Indicator for 1200 LB cylinders

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UNIQUE FIRE INDUSTRY SDN BHD Co. No. 418731-U

ADDRESS

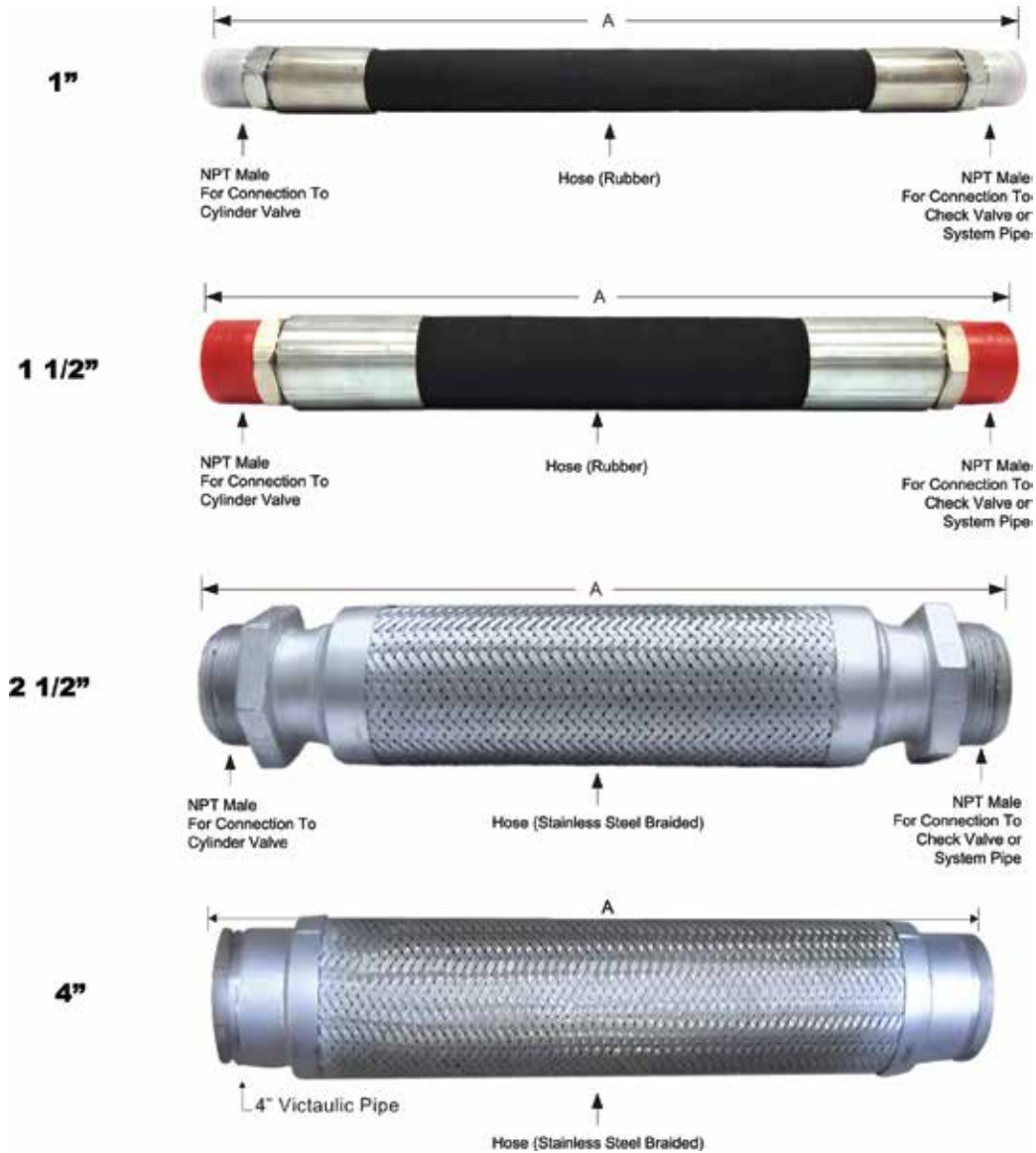
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UNIQUE227 FIRE SUPPRESSION SYSTEM

Flexible Hoses (Optional Components)



TECHNICAL DATA

Model No.	Diameter	A	Material
UFI 60255	1"	18"	Rubber
UFI 60256	1-1/2"	18"	Rubber
UFI 60257	2-1/2"	18"	Stainless Steel Braided
UFI 91230-C	3"	18"	Stainless Steel Braided
UFI 91230	4"	18"	Stainless Steel Braided



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Pressure Supervisory Switch (Optional Components)



TECHNICAL DATA		
Model No.	Description	Operation
UFI 50138-1	360psi	Normally Closed
UFI 50138-2	360psi	Normally Open

Pressure Gauge Guard (Optional Components)



TECHNICAL DATA		
Model No.	Size (NPT)	Material
UFI 70198-3	1/4"	Brass

Shuttle Valve



TECHNICAL DATA	
Part No.	Description
UFI 50123	1" Shuttle Valve
UFI 60619	1-1/2" Shuttle Valve



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Pressure Supervisory Switch Guard (Optional Components)



TECHNICAL DATA		
Model No.	Size (NPT)	Material
UFI 70215-2	1/4"	Brass

Check Valve (Optional Components)



4"



1", 1-1/2", 2-1/2"

TECHNICAL DATA		
Model No.	Description	Valve Size
UFI 60261	Check Valve	1"
UFI 60262	Check Valve	1-1/2"
UFI 60263	Check Valve	2-1/2"
UFI 91231-3	Check Valve	3"

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UNIQUE227 FIRE SUPPRESSION SYSTEM



Kentec Sigma A-CP Conventional Control Panel (Optional Components)



TECHNICAL DATA	
Model No.	K1842-11
Construction	1.2mm mild sheet steel
IP Rating	IP30
Finish	Epoxy powder coated
Colour - lid & box	Red RAL 3002 (optional grey BS 00 A 05 semi-matt)
Supply Voltage	115V AC or 230V AC
Mains Supply Fuse	3 Amp 250V 20mm SB
Power Supply DC Rating	24V 6.5 Amps
Maximum Battery Size	12Ah 12V (2 per panel)
Trouble Contact Rating	30V DC 1 Amp
Supervisory Contact Rating	30V DC 1 Amp
Fire Contact Rating	30V DC 1 Amp
NAC Rating	2A per circuit 4A Total
Detection Zone Current	1.6 milliamps
Detection Zone EOL Resistor	6k8 5%
NAC EOL resistor	10k 5%
Cable Capacity	12 AWG
Operating Temperature	-5°C to 50°C
Operating humidity	<95% (non condensing)

*Applicable for Unique 227 Fire Suppression System

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UNIQUE227 FIRE SUPPRESSION SYSTEM



Kentec Sigma A-XT Extinguishant Control Panel (Optional Components)



TECHNICAL DATA	
Model No.	K1810-13
Construction	1.2mm mild sheet steel
IP Rating	IP30
Finish	Epoxy powder coated
Colour - lid & box	Red RAL 3002 (optional grey BS 00 A 05 semi-matt)
Mains Supply	230V AC or 115V AC
Mains Supply Fuse	1.6 Amp (F1.6A L250V)
Power Supply Rating	3 Amps total including battery charge 28V +/- 2V
Maximum Ripple Current	200 millivolts
Battery Type (Yuasa NP)	Two 12 Volt 7Ah sealed lead acid in series
Battery Charge Voltage	27.6VDC nominal (temperature compensated)
Battery Charge Current	0.7A maximum
Battery Fuse	20mm, 3.15A glass
Maximum Current Draw from Batteries	3 Amps
Quiescent Current of Panel In Mains Fail	0.095A
ROV Output	Fused at 500mA with electronic fuse
Sounder Outputs	24V Fused at 500mA with electronic fuse
Fault Relay Contact Rating	30VDC 1A Amp maximum
Fire Relay Contact Rating	30VDC 1A Amp maximum
Local Fire Relay Contact Rating	30VDC 1A Amp maximum
First Stage Contact Rating	30VDC 1A Amp maximum
Second Stage Contact Rating	30VDC 1A Amp maximum
Extract Contact Rating	30VDC 1A Amp maximum
Zone Quiescent Current	2mA maximum
Terminal Capacity	12 AWG
Number of Detectors Per Zone	Dependent on type (maximum 32)

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UNIQUE227 FIRE SUPPRESSION SYSTEM

UNIQUE Fire Supression Panel



SIRIM

TECHNICAL DATA

Model No.	FSP-02
AC Input Voltage	240VAC \pm 10%, 50Hz
DC Output Voltage	22 – 26VDC
Standby Battery	24VDC Rechargeable SLA Type
Charger Output (Voltage / Current)	27.6VDC / 0.6A
Fuses	2A
Alarm Zone EOL Resistor	4.7k ohm, 1/4W, 5% Carbon
Bell / Tripping EOL Resistor	4.7k ohm, 1/4W, 5% Carbon
Bell / Tripping / Output	22 – 26VDC
System Standby Current	80mA
Input / Output Contacts	Normally Open Voltage Free
Chassis Colour / Material	Mild Steel Metal Casing Coated with Red Epoxy
Cabinet Dimension (W x H x D)	362 x 300 x 98mm (Indoor) 400 x 352 x 140mm (Outdoor)

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UNIQUE227 FIRE SUPPRESSION SYSTEM

Electronic Sounder Series 65db (Optional Components)

Description

DEMCO Electronic Sounder/Beacon D-155's compact design is acoustically very efficient, capable of generating high sound output (103 dBA) at low current levels (13mA at 24V DC). It also has a wide angle uniform sound distribution providing good audibility in all directions, thus making it ideal for fire, security and hazard warning. This conventional wall mount device is available in 4 tone versions with locally controllable output levels to enable the sound intensity to be adjusted to suit the application.

D-155 operates over a wide input voltage range of 8 to 35V DC, and is optimised for use at 12V and 24V systems. If required, the use of a third wire enables a second stage alarm to be switched to override the selected tone. These versatile features allow the model to work seamlessly with most detection systems incorporating central control equipment. Combining performance and functionality, DEMCO D-155 is designed to fully comply with EN 54 and meet protection rating of IP65.



TECHNICAL DATA		
Part No.	FAD-FBS-4T-D155	
D-155 (Sounder / Beacon)		
	Lowest	Highest
Output @ 1 metre 24VDC	68dB	95dB
Current @ 24VDC	13mA	22mA
Voltage Range	8 to 35VDC	
Operating Frequency	800Hz to 1000Hz	
Numbers of Tones	4	
Volume Control	Adjustment Screw	
Operating Temperatures	-20°C to +70°C	
Size (H x W x H)	107 x 95 x 99 mm	
Protection Classification	IP 65	
Approximate Weight	182g	

Demco Advantages

- Automatic sounder synchronization.
- High sound output, low current consumption.
- 4 On-board selectable tones.
- Adjustable volume control screw.
- ABS plastic body with polycarbonate Fresnel lens.
- High reliability and stable performance.
- High brightness LED.
- Fully EN54 compliance.
- Excellent value/price ratio.

*Applicable for Unique 227 Fire Suppression System

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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM

Carbon dioxide (CO₂) is a well-known extinguishing system for electrical equipment. The system consists of liquefied CO₂ stored in pressurised cylinder, discharge valves, piping and electrical devices that automatically detect smoke or heat and quickly discharge the CO₂ in the cylinders to extinguish the fire.



A. Liquefied Carbon Dioxide (CO₂)

CO₂ is an odourless, colourless, and incombustible gas present in the atmosphere. Not only is this gas non-corrosive in nature, it is also non-conductive and will not cause any form of electrical damage.

CO₂ extinguishes fire mainly by reducing the concentration of oxygen and /or the gaseous phase of fuel in the air, to the point where combustion stops.



This makes it ideal for use in the protection of: -

- Gaseous and liquid flammable materials
- Electrical Hazards
- Engines using gasoline and other flammable fuels
- Ordinary combustibles
- Hazardous solids

However, CO₂ will not extinguish fires when the following materials are actively involved in the combustion process:-

- Chemicals containing their own supply of oxygen
- Reactive metals
- Metal hydrides

B. CO₂ Cylinder Modules

Our CO₂ cylinders can be connected to a manifold via a non-return valve. This enables the removal of cylinders individually, without compromising on the general protection of the system.

The cylinders can generally be grouped in rows, in any combinations desired. However, a single or double row arrangement would be recommended for economical space utilisation.

The cylinders are tested to 225 bars and conform to DOT-3AA & BS 5045 PART 1 , NFPA 12.

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C. Solenoid Operated Pilot Cylinder

The pilot cylinder provides nitrogen gas at the pressure of 550 psi, and based on the pressure calculation it can operate the pneumatic actuation of up to 210 units of cylinder within a system.

The solenoid valve opens upon the supply of 24VDC, allowing gas to flow from the cylinder onto the manual / pneumatic actuator fitted to the pilot valve. The pilot valve then opens, releasing gas onto the CO₂ pneumatic valve. The pilot cylinder may also be operated manually, either locally at the pilot cylinder or remotely by pull cable and pull box.

NOTE:

1. The pilot cylinder would have to be recharged should the pressure falls below 400 psi, or the required pressure.
2. The solenoid pilot cylinder would have to be installed away from the 45kg CO₂ cylinder(s).
3. Assume that there are no leaks on the actuation line.
4. The time to actuate all cylinders may take more than 10 seconds which may not be acceptable by AHJ.



D. Release Unit

The release and subsequent discharge of the CO₂ gas can be affected either manually and / or automatically.

Manual Actuation

The manual release actuation is effected by just pulling the release handle at the cylinder valve.

Automatic Actuation

Detectors responding to a fire condition transmit a signal to the suppression panel, which then activates the release mechanism.

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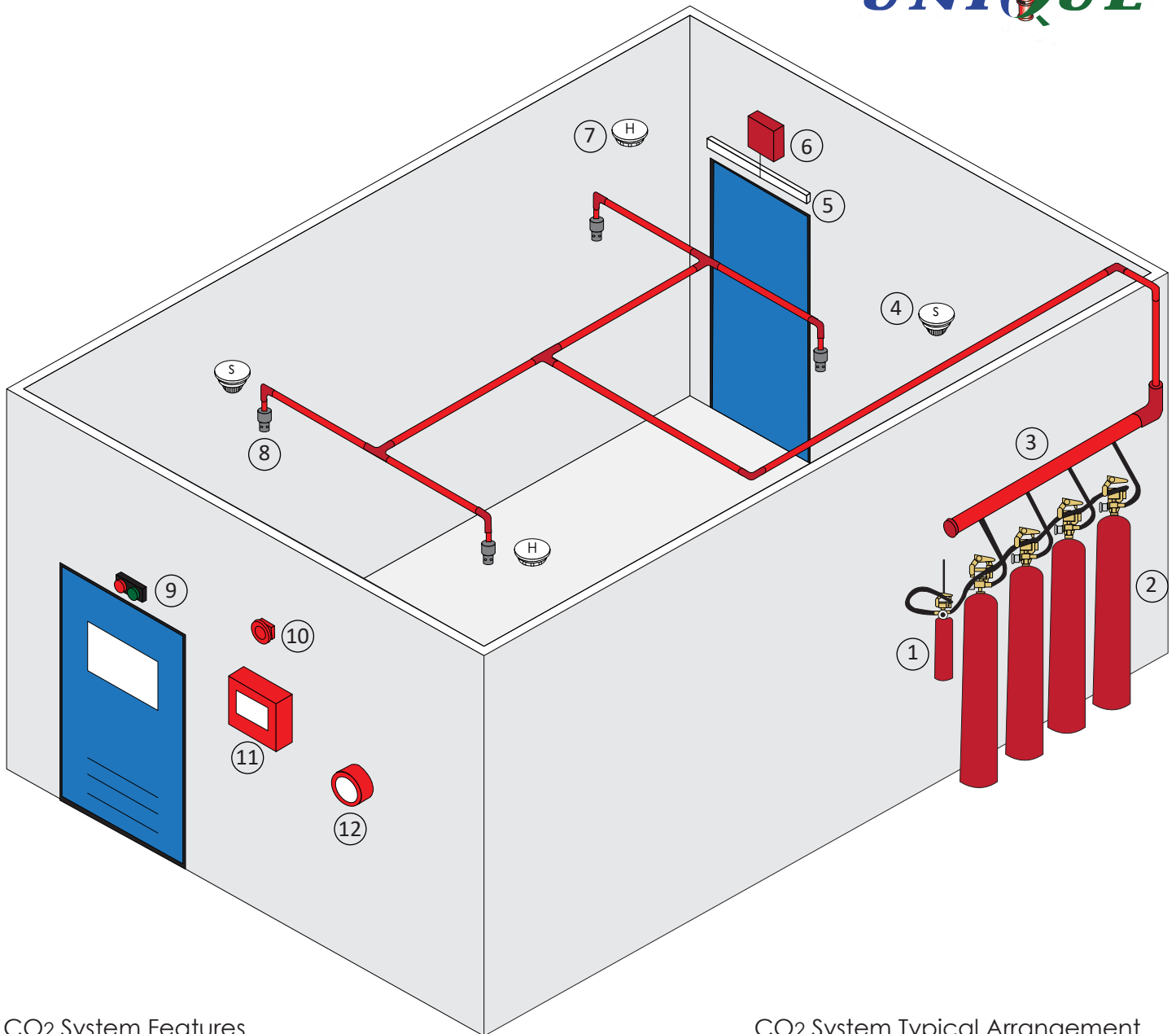
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CO2 System Features

- Leaves no residue after discharge
- Eco-friendly agent
- Non-damaging to property
- Effective on a wide range of flammable and combustible materials.

System Applications

- Electrical Room
- Generator Room
- Switch Room

CO2 System Typical Arrangement

1. Electric Solenoid Pilot Cylinder (550 psi)
2. 68L Carbon Dioxide Cylinder
3. Manifold
4. Smoke Detector
5. Smoke Curtain
6. 24V DC Tripping Device
7. Heat Detector
8. CO₂ Discharge Nozzle
9. Twin Flasing Light
10. Fire Alarm Bell
11. CO₂ Control Panel
12. Manual Pull Station

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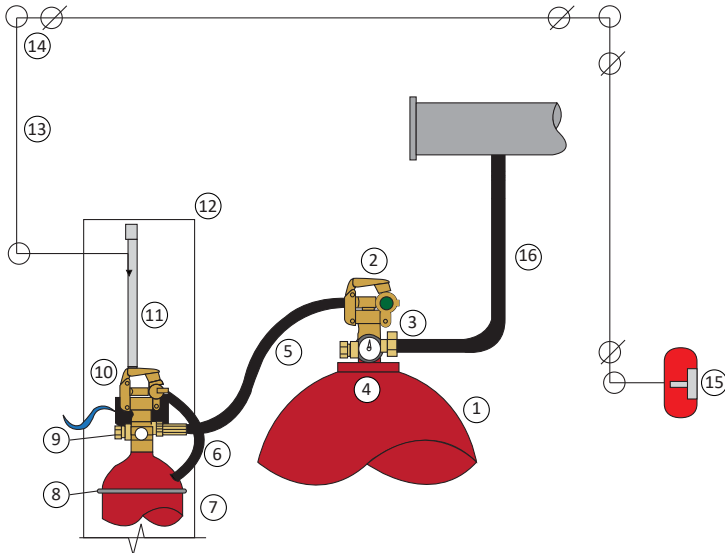
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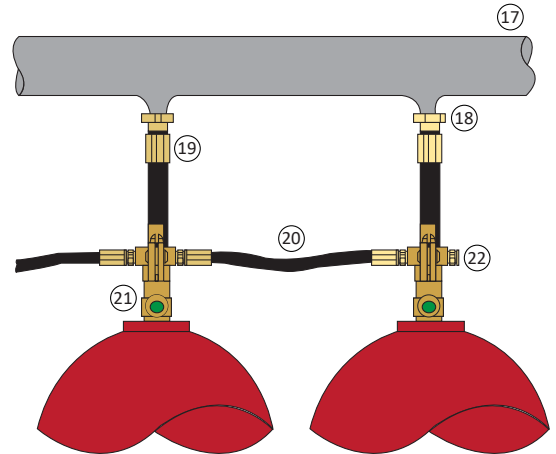
CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM



Pilot & Cylinder Arrangement



Pilot Cylinder Arrangement



Cylinder Arrangement

Pilot & Cylinder Arrangement

1. 68L CO₂ Cylinder c/w 45kg CO₂ gas
2. Ø20mm Pneumatic Operated Cylinder Valve
3. Ø20mm Outlet Valve
4. Pressure Gauge
5. Ø6mm x 600mm (L) Flexible Hose
6. Ø6mm x 300mm (L) Flexible Hose
7. Pilot Cylinder
8. Ø6mm Galvanised U-Bolt
9. Ø6mm Plug
10. Solenoid Valve

11. Manual Pull Handle
12. Pilot Cylinder Mounting Bracket
13. Ø1.5mm Galvanized Steel Cable in G.I Conduit
14. Corner Pulley
15. Manual Pull Handle
16. Ø15mm x 430mm (L) Discharge Hose
17. Cylinder Manifold
18. Ø20mm NPT Manifold Socket
19. Ø20mm Non Return Valve
20. Ø6mm x 345mm (L) Connecting Hose
21. Ø11mm x 7mm x 0.5mm Copper Washer
22. Vent Plug

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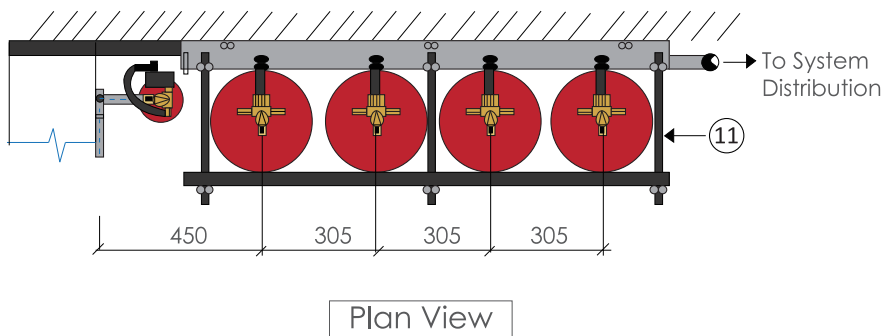
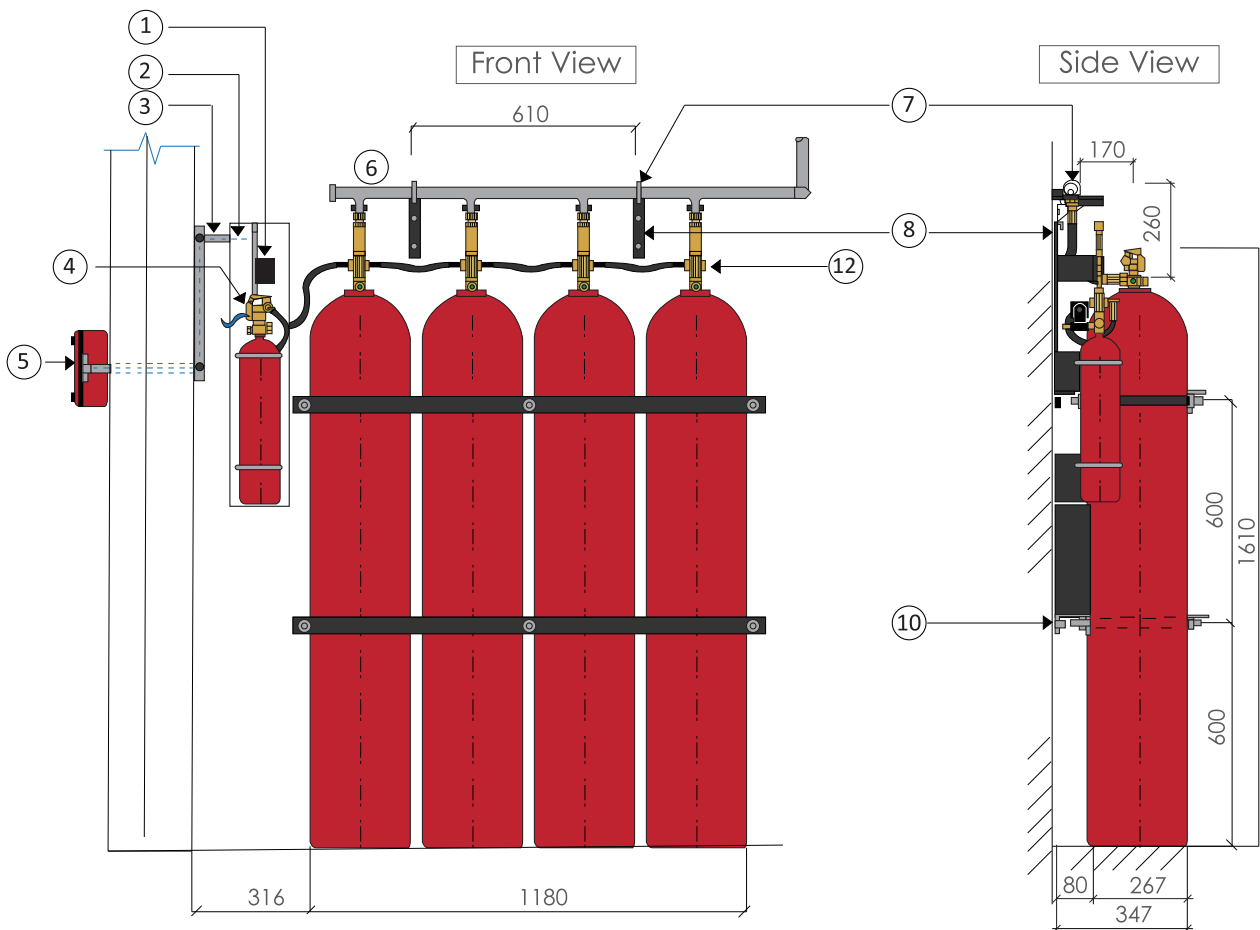
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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM



General Arrangement CO2 Cylinders



Front View

1. Limit Switch
2. $\varnothing 1.5\text{mm}$ Stainless Steel Wire
3. $\varnothing 19\text{mm}$ Conduit to Manual Pull Box
4. Solenoid Valve
5. Manual Pull Handle
6. $\varnothing 40\text{mm}$ Schedule 40 Manifold

Side View

7. $\varnothing 10\text{mm}$ U-Bolt
8. $50\text{mm} \times 50\text{mm} \times 5\text{mm}$ (thk) Angle Iron with $\varnothing 10\text{mm}$ Bolt + Washer
9. $50\text{mm} \times 50\text{mm} \times 5\text{mm}$ (thk) Angle Iron with $\varnothing 10\text{mm}$ Nut Washer

Plan View

10. $80\text{mm} \times 40\text{mm} \times 5\text{mm}$ (thk) U-Channel with $\varnothing 10\text{mm}$ Bolt + Washer
11. $\varnothing 10\text{mm}$ Tie Rod
12. Vent Plug

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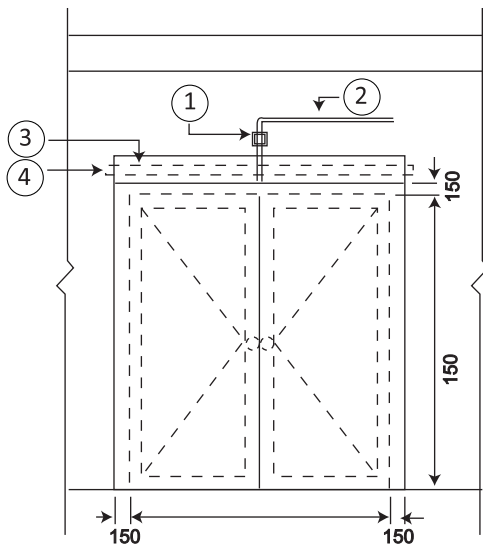
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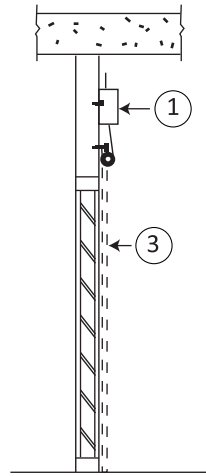
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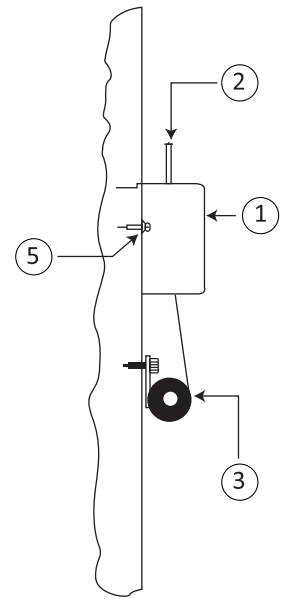
Smoke Curtain Mounting Detail



Front Elevation



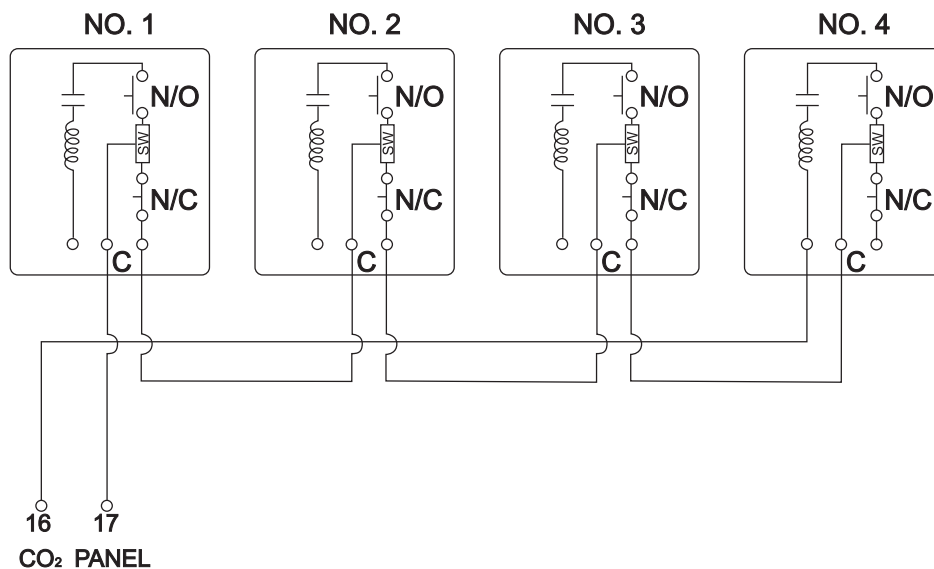
Side Elevation



Assembly Drawing

- 1. 24V DC Solenoid Tripping Device
- 2. Electrical Conduit
- 3. Fibre Glass Curtain
- 4. Iron Bar
- 5. Ø6mm Bolt & Drop-in Anchor with washer

Details of Multiple Solenoid Tripping Device Connection



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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM



45kg Seamless Cylinder with CO2 Gas



TECHNICAL DATA	
Part No.	CYL-N
Water Capacity	68L
CO2 Gas Capacity	45kg
Working Pressure	150 bar
Test Pressure	225 bar
Empty Weight	Approx. 68kg
Material	Mn Steel
Manufactured	GB5099-1-2017

Solenoid 24V DC Pilot Cylinder



TECHNICAL DATA	
Part No.	PC-S, PC-T
Gas	Nitrogen
Stored Pressure	38 bar (550 psi)
Power	24 V DC
Dimension	180mm (W) x 755mm (H)

Cylinder Valve



TECHNICAL DATA	
Part No.	45KG-NV
Material	Forged Brass CuZn 3963
Type Mode	UP-05
Working Pressure	150bar
Type	Manual/Pneumatic
Weight of Valve	700g
Standard	DIN 477

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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM



Connecting Hose



TECHNICAL DATA	
Part No.	HH-CH-13
Size	6mm (1/4")
Length	330mm (13")
Type	High Pressure Hose
Material	Steel Braided Rubber Hose
Test Pressure	540 bar
Proof Pressure	450 bar
Maximum Working Pressure	225 bar
Burst Pressure	> 900 bar
Thread	BSPT

Discharge Hose



TECHNICAL DATA	
Part No.	HH-DH-17
Size	13mm (1/2")
Length	432mm (17")
Type	High Pressure Hose
Material	Steel Braided Rubber Hose
Test Pressure	385 bar
Maximum Working Pressure	160 bar
Burst Pressure	> 640 bar
Thread	BSPT

Discharge Nozzle



TECHNICAL DATA			
Part No.	DN-UH15	DN-UH20	DN-UH25
Size	15mm	20mm	25mm
Material	Brass		
Finishing	Chrome		
Discharge Pattern	Uni-bilateral		
Discharge	With Orifice		
Type	Pendent		

Pyrocharge with Fitting



TECHNICAL DATA	
Part No.	45KG-PC
Material	Stainless Steel Body
Finishing	Natural
Voltage	24V

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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM



Vent Plug



TECHNICAL DATA

Part No.	HHF-VP-3/8
Size	10mm(3/8")
Material	Brass
Finishing	Galvanised

Tee



TECHNICAL DATA

Part No.	HHF-TEE-1/2"
Size	13mm (1/2") x 13mm(1/2") x 6mm(1/4")
Material	Steel
Finishing	Galvanised
Thread	BSPT

Plug



TECHNICAL DATA

Part No.	HHF-PG-3/8
Size	10mm(3/8")
Material	Steel
Finishing	Galvanised
Thread	BSPT

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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM

Auto Gas Releasing Control Panel



Indoor Type



Outdoor Type



PE-GRP 200/400 Series

Program Auto Gas Releasing Control Panel GRP 200/400 Series manufactured in accordance to MS 1745-2: 2004 and conformed to local CIFS requirement. PE-CRP 200/400 series is a microprocessor programmable user-friendly control panel with a digital ammeter, voltmeter and a countdown timer displayed on the front panel. Countdown timer is pre-set for 30 seconds upon two (2) activated zone. Timer can be programmed to required specification. The built-in power pack with an intelligent charger allows to charge up a set of completely flat 24 volts battery and automatically cuts off charging once battery is fully charged.

The controls and indications are housed in a compact enclosure finished with signal red polyester epoxy powder paint. Indoor and outdoor type of enclosure are available.

STANDARD FEATURES

- Power Source Indicators
- Power Failure Indicators
- Zone Fire, Fault and Isolate Indicators
- Bell Isolate Switch and Indicator
- Gas Isolate Switch and Indicator
- Fault Buzzer Mute Switch
- Master Reset Switch
- Test Lamp Switch
- Test Battery Switch
- Earth Fault Supervisory
- Built-in Delay Discharge Timer

(Programmable)

NEW FEATURES

- GAS Abort Function (Optional)
- Digital Voltmeter and Ammeter
- Intelligent Battery Charger
- Digital Countdown Timer
- Common Fault Contact
- Low Pressure Indicator

pg76

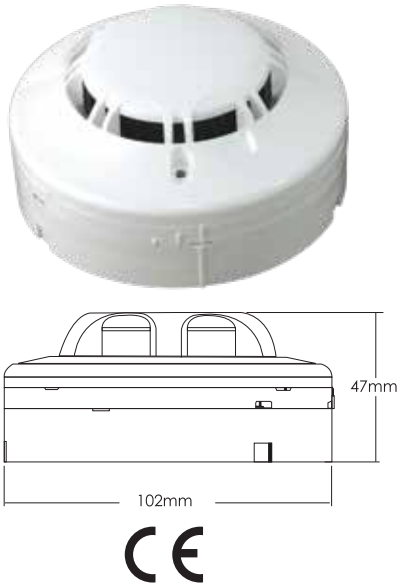
SIZE				
No. of Zones	Model no.	Part no.	Size (mm) (W x D x H)	
			Indoor	Outdoor
2	PE-GRP 200i / PE-GRP 200s	FAP-02ZCP-N	430 x 370 x 170	430 x 380 x 170
4	PE-GRP 400i / PE-GRP 400s	FAP-04ZCP-N	550 x 390 x 170	550 x 400 x 170
TECHNICAL DATA				
Power Supply Input		240V AC 50Hz/60Hz		
Operating System		24V DC		
Operating Battery		18-27.6V DC		
Battery Cut Off		18V		
Intelligent Charger (S1)		0.67A - 1.3A @ 30%		
Intelligent Charger (S5)		1.2A -1.8A @ 100%		
End of Line		8K2 Ohms		
Auxiliary Output		24V, 2 Amp		
Alarm Signal		N/O Contact		
Gas Discharged Signal		N/O Contact		
STANDBY MODE				
Master		75mA		
Per zone (with Detectors)		5mA		
Flashing Lights (Green LED)		75mA		
ALARM MODE				
Master		140mA		
Per Trigger Zone		70mA		
Output Devices		200mA		
Flashing Lights (Red LED)		75mA		
Per Bell		30mA		

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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM



UNIQUE AH-0711 Photoelectric Smoke Detector



TECHNICAL DATA		
Model No.	AH-0711	
Part No.	FAE-P0711	
Description	2 Wire	
Alarm Current @ 24V DC 470 Ω	40mA	
Operating Temperature Range	-10°C to 55°C	
Operating Humidity Range	10% to 93% Relative Humidity	
Voltage Range	12V-30V DC	
Standby Current @ 24V DC 470 Ω	25 - 75 μA	
Sensitivity Setting	15% obs/m	
Material	Plastic	
Size	Ø102mm x 50mm (H)	
Weight	130g	
Colour	White	
EFFECTIVE ALERT AREA		
Building Height	Under 4m	4m to 20m
Area Covered	150m ²	75m ²

*Applicable for Unique 227 Fire Suppression System and Carbon Dioxide Fire Extinguishing System

UNIQUE AH-0333 Heat Detector



TECHNICAL DATA		
Model No.	AH-0333	
Part No.	FAE-H0333	
Description	2 Wire	
Alarm Current @ 24V DC 470 Ω	40mA	
Operating Temperature Range	0°C to 55°C	
Operating Humidity Range	10% to 93% Relative Humidity	
Voltage Range	12V-30V DC	
Sensitivity Setting	Rise rapidly in 30°C / per 30sec.	
Material	Plastic	
Size	Ø111mm x 45mm (H)	
Weight	130g	
Colour	White	
EFFECTIVE ALERT AREA		
Construction/ Height	Under 4m	4m~ 8m
Fire-proof Building	90m ²	45m ²
Ordinary Building	50m ²	30m ²

*Applicable for Unique 227 Fire Suppression System and Carbon Dioxide Fire Extinguishing System

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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM



UNIQUE Twin Flashing Lights



TECHNICAL DATA	
Model No.	UNI-104 WP/L
Part No.	FAE-FLO-LED
Lens	High efficient prismatic polycarbonate lens optimized for omnidirectional viewing.
Luminary	Filament Bulb/Ultra Bright LED
Size	210mm(W) x 77mm(D) x 108mm(H)
Material (Casing & Hood)	Mild Steel
Finishing	Black casing with green and red lens

*Applicable for Unique 227 Fire Suppression System and Carbon Dioxide Fire Extinguishing System

UNIQUE Fire Alarm Bell



TECHNICAL DATA	
Model No.	UNI-102
Part No.	FAE-6AB
Supply Voltage	110/ 240V (AC) 12/24V (DC)
Sound Output	92 - 105 dB
Current Consumption	0.05 A
Size	150mm(6")
Finishing	Red

DECIBEL SPECIFICATION

AC Type		Decibel Rating @ 1m (3ft)		
Voltage	Amps	100mm(4")	150mm (6")	200mm (8")
110	0.015	92dB	95dB	97dB
240	0.033	98dB	105dB	106dB
DC Type		Decibel Rating @ 1m (3ft)		
12	0.08	95dB	99dB	100dB
24	0.05	96dB	103dB	105dB

*Applicable for Unique 227 Fire Suppression System and Carbon Dioxide Fire Extinguishing System

UNIQUE Sealed Lead Acid Battery



TECHNICAL DATA							
Model	Part No.	Nominal Voltage (V)	Capacity (AH)	Length (mm)	Width (mm)	Height (mm)	Approx. Weight (kg)
12V 7AH	BAT-007AH	12	7	151	65	100	2.05
12V 10AH	BAT-010AH	12	10	151	98	100	3.20
12V 12AH	BAT-012AH	12	12	151	98	100	3.45
12V 18AH	BAT-018AH	12	18	180	76	166	5.10
12V 26AH	BAT-026AH	12	26	176	166	127	7.80
12V 40AH	BAT-040AH	12	40	197	165	170	12.20
12V 65AH	BAT-065AH	12	65	355	167	193	20.20
12V 100AH	BAT-100AH	12	100	330	170	240	29.50
12V 120AH	BAT-120AH	12	120	405	174	233	35.6

*Note: 120AH Battery is not UL Listed.

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CARBON DIOXIDE FIRE EXTINGUISHING SYSTEM



Solenoid 24V DC Tripping Device



TECHNICAL DATA	
Part No.	TD
Size	180mm(W) x 90mm(D) x 205mm(H)
Working Current	0.4A
Material	Mild Steel
Finishing	Epoxy Powder Coating

Smoke Curtain



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

Manual Pull Box



TECHNICAL DATA	
Part No.	MPB
Size	Ø200mm x 65mm(H)
Material	Aluminium Alloy (Body) Aluminium Alloy (Handle)
Finishing	Epoxy Powder Coating

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FIRE SUPPRESSION FOR COMMERCIAL KITCHEN

Fires in commercial kitchens often start because of the improved kitchen equipment and advanced cooking oils that operate at higher temperatures. Carelessness such as unattended pots on the stove, leftover grease at the bottom of cooking pans, and putting flammable materials too near the stove add to the danger and heighten the chances of kitchen fires occurring.



FIRE SUPPRESSION FOR COMMERCIAL KITCHEN

Cylinder Assembly



TECHNICAL DATA			
Part No.	Model No.	Karbaloy Wet Chemical Agent Fill Qty (Litres)	Charge Weight (kg)
WC - 1.25	60-120001-001	5.03	14
WC - 2.5	60-120002-001	10.07	25
WC-4	60-120006-001	15.14	35
WC-6	60-120005-001	22.71	51

System Valve Actuator



TECHNICAL DATA			
Part No.	Model No.	Thread	Description
WC-SVA	87-120042-001	1/8" NPT Port	System Valve Actuator (SVA) must be mounted to every system cylinder valve assembly. The SVA has ports for low profile tubing runs, and is also equipped with a spring loaded plunger that locks the piston in the discharged position, ensuring complete discharge of the cylinder(s) contents.

Agent Discharge Nozzle



TECHNICAL DATA	
Part No.	WC-ADP
Nozzle Type	ADP
Model No.	87-120011-001
Thread	3/8" NPT Female Thread
Material	Nickle - Chrome Plated Brass Body

Fusible Link



TECHNICAL DATA					
Part No.	Model No.	Detector Type	Detector Temperature Rating	Colour	Maximum Exposure Temperature
WC-FL	WK-282664-000	ML	360°F(182°C)	Unpainted	300°F(149°C)



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FIRE SUPPRESSION FOR COMMERCIAL KITCHEN

FENWAL Heat Detector



TECHNICAL DATA			
Model	Part No.	Model No.	Temperature Setting
Detect-A-Fire	WC-FHD450	27121-0	450°F (232°C)

Universal Control Head



TECHNICAL DATA						
Part No. Model No.	Size (mm)	Operating Temperature Range	Actuation Mode	Number of Extinguishing System Cylinders	Maximum Total Length Copper Actuation Tubing	Minimum Total Length of Copper Tubing
WC-UCH 60-120099-002	215(W) x 245(H) x 95(D)	-18°C to 49°C	Electrical, Pneumatic & Manual	1 - 12	32.30m (106 ft)	1.52m (5 ft)
				13-20	27.73m (91 ft)	

A+ Control Box



TECHNICAL DATA						
Part No. Model No.	Size (mm)	Operating Temperature Range	Actuation Mode	Number of Extinguishing System Cylinders	Maximum Total Length Copper Actuation Tubing	Minimum Total Length of Copper Tubing
WC-MB 60-120010-002	155(W) x 180(H) x 40(D)	-18°C to 49°C	Pneumatic & Manual	1 - 5	0.91m (3 ft) from A+ to 1st system cylinder	7.0m (23 ft)

Combination Remote Manual Release



TECHNICAL DATA		
Part No. Model No.	Size	Description
WC-PB 60-120110-001	91(W) x 125(H) x 52(D)	The combination Remote Manual Release (RMR) pull station is provided as means of manually actuating the Range Guard fire suppression system from a remote location.

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FIRE BLANKET & SMOKE CURTAIN



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')				

UNIQUE Smoke Curtain



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

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HOME SAFETY KIT



HOME SAFETY KIT

1 kg Portable Dry Powder Fire Extinguisher



TECHNICAL DATA	
Part No.	FEU-ID
Model No.	UF-1
Capacity	1.0 kg
Type of Extinguishant	ABC Dry Powder
Type	Stored Pressure
Pressurized Agent	Nitrogen
Working Pressure	12 bar (174 psi)
Test Pressure	25 bar (362.5 psi)
Temperature Range	-20°C to 60°C
Discharge Time (Approx.)	7 sec
Overall Height	330 mm
Cylinder Diameter	79 mm
Approx. Full Weight	1.9 kg
Body Material	Cold Rolled Steel
Finishing	Red (RAL 300)
Class of Fire	A, B, C, E
Fire Rating	5A 21B
Design & Manufacture	MS 1539 PART 1 : 2002



UNIQUE Single Station Smoke Detector



TECHNICAL DATA	
Part No.	FAE-SD-426B
Model	SD-426B
Power Supply	DC9V Replaceable Battery
Smoke Sensitivity	0.08~0.16dB/m (EN standard)
Standby Current	8 μ A
Alarm Current	\leq 45mA
Temperature Range	0°C to 50°C
Humidity	0 ~ 95% RH, no condensation or icing
Alarm Sound Level	85 dB @ 3m



Fire Blanket



TECHNICAL DATA	
Part No.	FB-4X4
Material	Woven Fibreglass Fabric
Colour	White
Coating Finish	Loomstate
Operating Temperature	Basic Fabric 600°C
Size (mm)	1200 x 1200 (4' x 4')

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Pasar Seni Station



Tun Razak Exchange Station

*“We would like to extend our appreciation to **Unique Fire Industry Sdn Bhd**, for having supplied the active fire protection equipment for all the seven underground stations, as well as successfully completed the Testing and Commissioning for the fire suppression systems supplied.*

MMC-GAMUDA
KVMRT (T) SDN BHD



SCAN ME



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