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PREVENT SUPPRESS
PROTECT
SUPPORT
EXTINGUISH DETECT



UK BASED ONE-STOP-SHOP FOR FIRE FIGHTING

LIFECO has remained at the forefront of the Fire Fighting Equipment market by constantly striving to provide innovative solutions and services that surpass Customers' expectations and by tirelessly seeking to improve quality standards. To this end, the Company maintains a quality management system accredited by BSI to ISO 9001:2008. In addition its products, where applicable, hold accreditations issued by major inspection organisations such as Loss Prevention Certification Board (LPCB), BSI Kitemark, FM, Underwriters Laboratories (UL) and Marine (MED) approval.

THE RIGHT VISION

To serve the demand of our customers with high quality products and services with ethical responsibility & commitment to professionalism.

THE RIGHT PATH - MISSION

LIFECO's management and employees have a clear mission to ensure superiority and distinction in products and services, and thus guarantee customer satisfaction

THE RIGHT RESOURCES

LIFECO employs a team of professionals from diverse backgrounds and cultures who believe in the value of their work. The team works tirelessly to make LIFECO what it is now.

CORNER STONE
TO
BUILDING THE FUTURE

Lichfield Fire & Safety Equipment Co. Ltd. (LIFECO), LIFECO has been a global leader in supplying products covering the full range for fire detection, prevention, extinguishing and suppression. LIFECO, with its world headquarters is located in United Kingdom and is well poised to serve a variety of International markets in addition to fulfilling the local market demand. LIFECO serves Civil Defence, Industrial, Commercial and Consumer markets with its wide range of quality and innovative products. LIFECO is represented globally with its well knit National and International infrastructure dealer network. The Company's strengths are underpinned by a highly skilled workforce, and a diverse range of quality products and services that aims to provide a 'one stop shop' to satisfy all of our Customers' Fire and Life Safety requirements.





CO₂ EXTINGUISHERS



STANDARD PRODUCTS AVAILABLE ON REQUIREMENT



LIFECO CO₂ Extinguishers are characterized by their high performance against fires involving an electrical risk, like computers and generators etc. CO₂ is non-conductive, clean and safe, ensuring minimal damage to electrical equipment and furnishings.

Features

Easy handling, Controllable discharge, Maximum fire tackling capability, Limited damage to delicate equipment, Manufactured to the latest BS EN3 standards and carries the Kite mark, CE mark.

Suitable for Class B fire risks.

MODEL	CAPACITY	FIRE RATING	FILLED WEIGHT (kg)	OPERATING TEMPERATURE
LC2	2kg	21B	8.2	-20°C to +60°C
LC2S	2kg	34B	8.2	-20°C to +60°C
LC2SZ	2kg	55B	8.2	-20°C to +60°C
LC5	5kg	55B	17.4	-20°C to +60°C
LC2SA	2kg	34B	8.2	-20°C to +60°C
LC5SA	5kg	55B	17.4	-20°C to +60°C

LC2SA – Aluminium CO₂ Extinguisher (2 kg)

LC5SA – Aluminium CO₂ Extinguisher (5 kg)



DRY POWDER EXTINGUISHERS



STANDARD PRODUCTS AVAILABLE ON REQUEST



LIFECO Dry Powder Extinguishers are characterized by their high performance simple method of operation with rapid fire knock down capability. They are suitable for tackling fires involving freely burning materials, petrol & oils, gas & electrical equipment. They are ideal for vehicle & marine risks.

Features

Ready for instant use, Simple squeeze operation, Controllable discharge, Maximum fire tackling capability, Refillable and easy to service, Manufactured to the latest BS EN3 standards and carries the Kite mark, CE mark.

Suitable for Class A and Class B fire risks

MODEL	CAPACITY	FIRE RATING	FILLED WEIGHT (kg)	OPERATING TEMPERATURE
LP1	1kg	8A - 34B	1.9	-20°C to +60°C
LP2	2kg	13A - 70B	3.6	-20°C to +60°C
LP4	4kg	21A - 113B	7.8	-20°C to +60°C
LP6	6kg	34A - 183B	10.0	-20°C to +60°C
LP6	6kg	34A - 233B	10.0	-20°C to +60°C
LP9	9kg	43A - 233B	14.0	-20°C to +60°C
LP12	12kg	55A - 233B	17.9	-20°C to +60°C

WATER EXTINGUISHERS



STANDARD PRODUCTS AVAILABLE ON REQUIREMENT



LIFECO Water Extinguishers are characterized by their high performance and simple method of operation. Ideal for tackling freely burning materials such as paper, cloth, wood and furniture, it is a good general purpose fire extinguisher.

Features

Ready for instant use, Simple squeeze operation, Controllable discharge, Jet nozzle provides concentrated stream of water, Jet & spray nozzle available, Internal coating to prevent corrosion, Refillable and easy to service, Manufactured to the latest BS EN3 standards and carries the Kite mark, CE mark.

Suitable for Class A fire risks

MODEL	CAPACITY	FIRE RATING	FILLED WEIGHT (kg)	OPERATING TEMPERATURE
LW6S	6 Litre	13A	11.3	+5°C to +60°C
LW9S	9 Litre	21A	15.4	+5°C to +60°C
LW6J	6 Litre	13A	11.3	+5°C to +60°C
LW9J	9 Litre	13A	15.4	+5°C to +60°C

S – Spray nozzle

J – Jet nozzle



FOAM EXTINGUISHERS



STANDARD PRODUCTS AVAILABLE ON REQUIREMENT



LIFECO Foam are multipurpose extinguishers, ideal for fires involving volatile liquids and freely burning materials such as paper, cloth, wood and furniture.

Features

Ready for instant use, Controllable discharge, Spray nozzle provides curtain of foam for rapid knockdown of fire, Internal coating to prevent corrosion, Refillable and easy to service, Manufactured to the latest BS EN3 standards and carries the Kite mark, CE mark.

Suitable for Class A and Class B fire risks

MODEL	CAPACITY	FIRE RATING	FILLED WEIGHT (kg)	OPERATING TEMPERATURE
LF6	6 Litre	21A - 144B	11.3	+5°C to +60°C
LF9	9 Litre	21A - 183B	15.5	+5°C to +60°C



WET CHEMICAL EXTINGUISHERS



STANDARD PRODUCTS AVAILABLE ON REQUIREMENT



LIFECO Wet Chemical Extinguishers are used for tackling cooking oil / fat fires. The fine spray gives almost immediate flame extinguishment while the wet chemical agent with oil to form a soap-like film that seals the surface of the oil and cools it down to prevent re-ignition.

Features

Ready for instant use, Simple squeeze operation, Controllable discharge, Refillable and easy to service, Manufactured to the latest BS EN3 standards and carries the Kite mark, CE mark.

Suitable for Class A and Class F fire risks

MODEL	CAPACITY	FIRE RATING	FILLED WEIGHT (kg)	OPERATING TEMPERATURE
LKF6	6 Litre	13A - 75F	12.8	+5°C to +60°C



FOAMMAX EXTINGUISHERS



STANDARD PRODUCTS AVAILABLE ON REQUIREMENT



LIFECO Foammax is ultra high performance extinguishers. They have been specially designed to save valuable shelf space for supermarkets, reducing servicing and maintenance costs over time. Ideal for fires involving volatile liquids and freely burning materials such as paper, cloth, wood and furniture. They are manufactured to the latest BS EN3 standards, Certified by BSI and carries BSI Kite mark, CE mark.

Features

Ready for instant use, Slim line design, Simple squeeze operation, Controllable discharge spray nozzle, provides quick curtain of foam, Rapid knockdown of fire, Refillable and easy to service.

MODEL	CAPACITY	EXTINGUISHING AGENT	CLASS OF FIRE	FIRE RATING	FILLED WEIGHT(kg)	PROPELLING AGENT
LF6 MAX	6 Litre	6 Litre	A & B	27A - 183B	11.3	Air Or Nitrogen



MOBILE EXTINGUISHERS



LIFECO **MOBILE EXTINGUISHERS** are suitable for protecting large marine and industrial fire risk-mobile extinguishers are available in a choice of extinguishants and sizes. All models are mounted on a strong wheel chassis with solid rubber tyre for easy movement and long life.

DRY POWDER MOBILE EXTINGUISHERS

Suitable for Class A, B and C Fire Risk.

25kg	-	LP25
50kg	-	LP50
75kg	-	LP75
100kg	-	LP100

FOAM MOBILE EXTINGUISHERS

Suitable for Class A and B Fire Risk.

50liter	-	LF50
100liter	-	LF100
135liter	-	LF135

CO₂ MOBILE EXTINGUISHERS

Suitable for Class B Fire Risk.

9kg	-	LC9
23kg	-	LC23
45kg	-	LC45

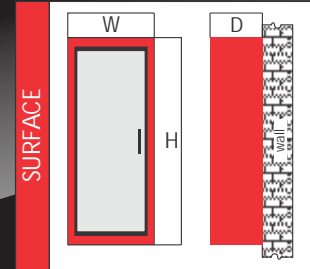
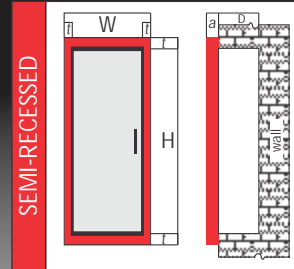
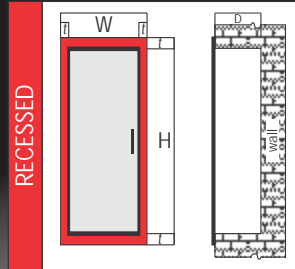
WATER MOBILE EXTINGUISHERS

Suitable for Class A Fire Risk.

50liter	-	LW50
100liter	-	LW100
135liter	-	LW135



EXTINGUISHER CABINETS



MODEL	WALL MOUNTING	SIZE OF CABINET (cm)			WALL OPENING SIZE (cm)			t (cm)
		H	W	D	H	W	D	
LF 102	Recessed	45	22	15	47	24	16	4
LF 104	Recessed	60	28	18	62	30	19	4
LF 106	Recessed	70	30	22	72	32	23	4
LF 108	Recessed	110	32	25	112	34	26	4
LF 202	Recessed	80	28	18	82	30	19	4
LF 204	Recessed	90	30	22	92	32	23	4
LF 112	Semi-Recessed	60	28	18	62	30	13	4
LF 114	Semi-Recessed	70	30	22	72	32	17	4
LF 116	Semi-Recessed	110	32	25	112	34	21	4
LF 210	Semi-Recessed	80	28	18	82	30	13	4
LF 212	Semi-Recessed	90	30	22	92	32	17	4
LF 120	Surface	45	22	15	-	-	-	-
LF 122	Surface	60	28	18	-	-	-	-
LF 124	Surface	70	30	22	-	-	-	-
LF 126	Surface	110	32	25	-	-	-	-
LF 220	Surface	80	28	18	-	-	-	-
LF 222	Surface	90	30	22	-	-	-	-



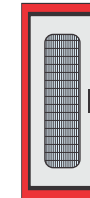
F : Full Metal Model



G : Full Glass Model



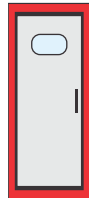
BG : Center Break Glass Model



CW : Wire Glass Model



GV : Vertical Duo Model



GH : Horizontal Duo Model



HOSE REELS



LIFECO Hose Reels have an extensive range with swinging & fixed type with manual and automatic operation to suit any architectural and installation requirements.

Hose reel discs are made of 1.2mm pre-treated electro-galvanized steel sheet, painted with electrostatic powder coating and oven baked at 200°C. Hose Reel side plates are protected with a polyester powder coating that complies to salt spray test requirement which is specified in ISO 9227 for 240hrs

Hose Reel Drum has formation of hydraulically pressed ribs to give extra strength and to avoid twisting. The outer edges are rolled over to give a safe handling edge on the outer rims and better experience.

Automatic fire hose reels are available with an internal valve built into the hose reel unit which opens within 3 revolutions of the hose reel as the hose is pulled out and closes when the hose is wound back to the reel./

HOSE REEL DIAMETER: 580mm | HOSE LENGTH: 30 m



FIXED TYPE

Manual & Automatic

MANUAL	AUTO
LH19F	LH19AF
LH25F	LH25AF

SWINGING PIPE TYPE

Manual & Automatic

MANUAL	AUTO
LH19/SP	LH19/ASP
LH25/SP	LH25/ASP

SWINGING ARM TYPE

Manual & Automatic

MANUAL	AUTO
LH19/SA	LH19/ASA
LH25/SA	LH25/ASA



1" HOSE CABINET



1" HOSE:

Hose is semi rigid made of rubber in red color manufactured to European Standards BS EN 694. The Hose has three ply with two synthetic rubber layers and textile reinforcement.

MODEL	SIZE OF CABINET (mm)			WALL OPENING SIZE (mm)		
	Height	Width	Depth	Height	Width	Depth
LF 300	800	800	230	820	820	240
LF 300A	800	800	250	820	820	260
LF 300AS	800	800	250	820	820	260
LF 305/20	700	700	200	720	720	210
LF 305/30	700	700	250	720	720	260
LF 305A	700	700	250	720	720	260
LF 305AS	700	700	250	720	720	260
LF 600	1050	800	230	1070	820	240
LF 600A	1050	800	250	1070	820	260
LF 600AS	1050	800	250	1070	820	260

All Cabinets can be *Recessed, Semi Recessed & Surface Mounted*

- RSD - Full Metal Door
- RGD - Full Clear Glass Door
- RVD - Vertical Clear Glass Door
- RHD - Horizontal Clear Glass Door
- RSSD - Stainless Steel Frame & Door
- RSVD - Stainless Steel Frame & Door with Vertical Clear Glass Door
- RSGD - Stainless Steel Frame & Door with Full Clear Glass Door
- SSSD - Full Stainless Steel
- SSVD - Full Stainless Steel with Vertical Clear Glass Door
- RCD - Circular Clear Glass Door
- RSCD - Stainless Steel Frame & Door with circular Clear Glass

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FIRE & SAFETY
EQUIPMENT
CO. LTD.

HEADQUARTERS:
Unit 8, Calibre Industrial Park,
Laches Close, Four Ashes,
Wolverhampton, WV10 7DZ
United Kingdom

TEL: +44 (0) 1902 798 706
FAX: +44 (0) 1902 798 679
MAIL: sales@lifeco-uk.com

MIDDLE EAST Office
P.O.Box: 18605, Jebel Ali Free Zone,
Dubai, U.A.E.
TEL: +971 4 880 98 90
FAX: +971 4 880 98 22

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1" HOSE NOZZLES



MODEL A

TYPE:
Nozzle Jet, Spray and Close, Rotary Type

CONTROL
3 way control, Straight-Spray-Shut off

FINISH
Plastic Red Colour

SIZES
3/4" and 1"



MODEL B

TYPE:
Nozzle Jet and Close Type

CONTROL
2 way control, Straight-Shut off

FINISH
Chrome Finish Brass

SIZES
3/4" and 1"



MODEL C

TYPE:
Nozzle Jet, Spray and Close, Rotary Type

CONTROL
3 way control, Straight-Spray-Shut off

FINISH
Chrome Finish
Brass Finish

SIZES
1"

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HOSE RACK AND CABINET



LIFECO Hose Rack is designed to hold the hose with movable pins for easy and quick operation at the time of emergency. Racks are furnished with 100% synthetic single jacketed hose. Complete rack assembly includes the rack, rack nipple, angle valve and brass fog nozzle.

Hose length and Size: 30 meters x 1.5" Diameter

HOSE RACK CABINETS come equipped with a Synthetic Hose. Hose Rack Cabinets are available in different designs and models. All Cabinets can be Recessed, Semi Recessed or Surface type

RSD - Full Metal Door
RGD - Full Clear Glass Door
RVD - Vertical Clear Glass Door
RHD - Horizontal Clear Glass Door
RSSD - Stainless Steel Frame & Door
RSVD - Stainless Steel Frame & Door with Vertical Clear Glass Door
RSHD - Stainless Steel Frame & Door with Horizontal Clear Glass Door
RSGD - Stainless Steel Frame & Door with Full Clear Glass Door

AVAILABLE MODELS

LFR 150
LFR 200E
LFR 200EV

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1½" & 2½" SYNTHETIC HOSE



UL MODEL	HOSE SIZE	WORKING PRESSURE (psi)	BURST PRESSURE (psi)
SINGLE JACKET UL FIRE HOSE			
LF4015SJ	1½"	150	450
LF4025SJ	2½"	180	540
		200	600
DOUBLE JACKET UL FIRE HOSE			
LF4015DJ	1½"	220	660
		250	750
LF4025DJ	2½"	300	900

MODEL	HOSE SIZE	WORKING PRESSURE (psi/bar)	BURST PRESSURE (psi/bar)
SINGLE JACKETED SYNTHETIC HOSE			
LF4015SJ	1½"	230/16	725/50
LF4025SJ	2½"	230/16	725/50
DOUBLE JACKETED SYNTHETIC HOSE			
LF4015DJ	1½"	400/27	1150/80
LF4025DJ	2½"	300/21	900/62



1½" & 2½" SYNTHETIC HOSE NOZZLES



MODEL A

TYPE:
Nozzle, Jet Type

FINISH
Brass Finish

SIZES
1½" and 2½"



MODEL B

TYPE:
Nozzle Jet, Spray and Close, Rotary Type

FINISH
Chrome Finish
Brass Finish

SIZES
1½" and 2½"



MODEL C

TYPE:
Nozzle Jet, Spray and Close, Rotary Type

CONTROL
3 way control, Straight-Spray-Shut off

FINISH
Aluminum and Plastic

SIZES
2½"

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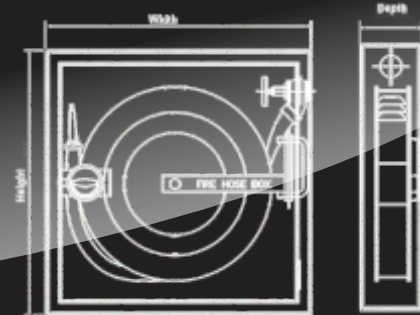
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1½" & 2½" SYNTHETIC HOSE CABINET

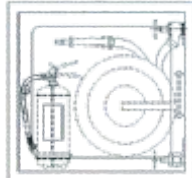


FIRE HOSE CABINET WITH EXTINGUISHER AND ONE DOOR



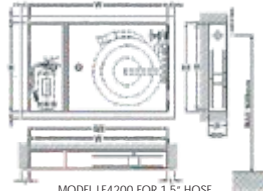
MODEL LF4400 FOR 1.5" HOSE
MODEL LF5400 FOR 2.5" HOSE

FIRE HOSE CABINET WITH EXTINGUISHER ONE DOOR AND ADDITIONAL VALVE



MODEL LF4600 FOR 1.5" HOSE
MODEL LF5600 FOR 2.5" HOSE

FIRE HOSE CABINET WITH EXTINGUISHER AND DOUBLE DOOR



MODEL LF4200 FOR 1.5" HOSE
MODEL LF5200 FOR 2.5" HOSE
FOR RECESSED CABINET T=4CM

MODEL	SIZE OF CABINET (cm)			WALL OPENING SIZE (cm)		
	Height	Width	Depth	Height	Width	Depth
LF4000	65	65	15	67	67	16
LF5000	65	65	19	67	67	20
LF4200	90	65	18	92	67	19
LF5200	90	65	19	92	67	20
LF4400	85	65	18	87	67	19
LF5400	85	65	19	87	67	20
LF4600	85	90	22	87	92	23
LF5600	85	90	22	87	92	23

All Cabinets can be *Recessed, Semi Recessed & Surface Mounted*
AVAILABLE IN MILD STEEL & STAINLESS STEEL (SATIN OR MIRROR FINISH)
 Available in **RSD, RGD, RVD, RHD, RSSD, RSVD, RSGD, SSSD, SSVD, RCD, RSCD**

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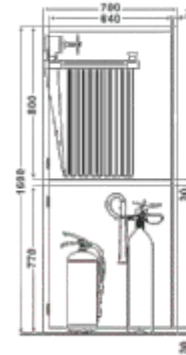
HOSE REEL CABINET - DOUBLE COMPARTMENT



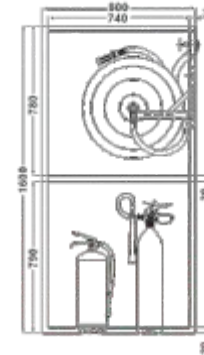
HOSE REEL CABINETS - DOUBLE COMPARTMENT
are available in two models
SF900 - Manual Type Hose
SF900A - Automatic Type Hose

All Cabinets can be *Recessed, Semi Recessed & Surface Mounted*

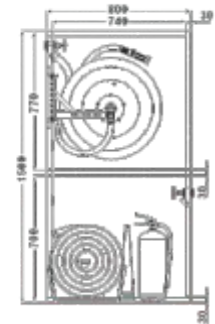
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- SSSD - Full Stainless Steel
- SSVD - Full Stainless Steel with Vertical Clear Glass Door
- RCD - Circular Clear Glass Door
- RSCD - Stainless Steel Frame & Door with circular Clear Glass



OPTION 1
Semi Automatic Hose Rack - 1.5" x 30M
Jet & Spray Nozzle - 1.5"
Angle Valve - 1.5"
Fire Extinguisher - 5kg Co2
Fire Extinguisher - 6kg Dry Powder



OPTION 2
Rubber Hose Reel - 25mm x 30M
Jet & Spray Nozzle - 1.5"
Landing Valve - 1.5"
Fire Extinguisher - 5kg Co2
Fire Extinguisher - 6kg Dry Powder



OPTION 3
Rubber Hose Reel - 25mm x 30M
Jet & Spray Nozzle - 1"
Landing Valve - 1"
Synthetic Hose with Coupling - 2.5"x30M
Jet Nozzle - 2.5"
Landing Valve - 2.5"
Fire Extinguisher - 6kg Dry Powder



FOAM WATER CABINETS



LIFECO Foam/Water Cabinet Model LF9000 characterised for its high performance for attacking class A, B Fire within seconds. Designed for single man operation. Highly efficient in gas stations, petro-chemical plants, industrial premises, warehouse and in any areas requiring protection from class A or B fires.

All Cabinets can be *Recessed, Semi Recessed & Surface Mounted*

- RSD - Full Metal Door
- RGD - Full Clear Glass Door
- RVD - Vertical Clear Glass Door

MODEL	DIMENSIONS		
	Height (mm)	Width (mm)	Depth (mm)
SF 9000	1120 Slopped Roof	700	300

Model LF10000 Series, same as above but with 1.5" x 30 mtr. hose mounted on Hose Rack.

Cabinet and door leaf made of electro-galvanised steel of thickness 1mm to 2mm which depends upon the use and customer requirements.

Cabinets are with all around folded edges without any sharp edges and burrs. The roof is with slop.

Cabinet painting is done by electrostatic power paint, oven baked to temperatures between 160°C to 200°C to protect from rust and to give good finish

Operating instructions are silk screen printed in English and Arabic inside the cabinet doors.



ANGLE HOSE VALVES



Angle Hose Valve is manufactured in accordance with UL668 hose valve fire protection service. It is used with a fire department outlet or with a hose rack assembly.

Angle hose Valve 1 1/2" **Model AH15**
NPT Thread Female inlet with 1 1/2" NPT Female thread outlet

Angle hose Valve 1 1/2" **Model AH20**
NPT Thread Female inlet with 1 1/2" NST Female thread outlet

Angle hose Valve 2 1/2" **Model AH25**
NPT Thread Female inlet with 2 1/2" NPT Female thread outlet

Angle hose Valve 2 1/2" **Model AH30**
NPT Thread Female inlet with 2 1/2" NST Female thread outlet

TECHNICAL SPECIFICATION

MATERIAL BODY	HAND WHEEL	RATED PRESSURE	TEST PRESSURE
CAST BRASS	Ductile Iron	300 psi	600 psi
FINISHES	Brass or Chrome		



PRESSURE RESTRICTING ANGLE VALVE



PRESSURE REDUCING ANGLE VALVE is used with a fire hose reel or rack assemblies or as a fire department outlet connection. Water pressure is controlled up to 300psi by adjustable flow restriction. Locking pin mechanism restricts unnecessary frill opening of valve. Pin may be removed by trained personnel as needed.

Finishes

Brass
Chrome

Material Body: Cast Brass

Hand Wheel: Ductile Iron

Rated Pressure: 300psi

Test Pressure: 600psi

Female x Male Model:

RV-AH20 (1½" x 1½")

RV-AH30 (2½" x 2½")

Cast brass valve with red handed wheel with pressure restricting features.

Female NPT inlet x Male Hose thread outlet

Double Female Model:

RV-AH15 (1½" x 1½")

RV-AH25 (2½" x 2½")

Cast brass valve with red handed wheel with pressure restricting features.

Female NPT inlet and outlet



OBLIQUE LANDING VALVE



MODEL: LF-OLV

LIFECO Oblique Landing Valves are manufactured according to BS 5041 and are available with an outlet of 65mm Ø with installation coupling to BS 336 and inlet with flange.

TECHNICAL SPECIFICATION

BODY	Copper Alloy to BS 1400 LG2
HAND WHEEL	Grey Cast Iron to BS 1452
INLET	65mm Ø flange or screw thread
OUTLET	65mm Ø instantaneous
TEST PRESSURE	327 psi (22.5 bar)
FINISHES	Brass, Chrome or Red painted



STRAIGHT THROUGH LANDING VALVE



MODEL: LF-STLV

LIFECO Oblique Landing valves are manufactured according to BS 5041 and are available in threaded or flanged end inlet and outlet of 65mm Ø with installation coupling to BS336.

TECHNICAL SPECIFICATION

BODY	Copper Alloy to BS 1400 LG2
HAND WHEEL	Grey Cast Iron to BS 1452
INLET	65mm Ø flange or screw thread
OUTLET	65mm Ø instantaneous
TEST PRESSURE	327 psi (22.5 bar)
FINISHES	Brass, Chrome or Red painted



'E' TYPE PRESSURE REGULATING VALVE



MODEL: LFR-120

FEATURES

LFR-120 Pressure Regulator enabled a uniform fire fighting pressure to be maintained at any hydrant in a fire protection system irrespective of its location, the regulator can be quickly and easily adjusted in-site to meet, individual floor level pressure requirements.

PRESSURE RANGES

Outlet 4.1 - 8.3bar (60 - 120psi)
Inlet 4.8 - 20.7bar (70 - 300psi)

CONNECTIONS

Outlet 2 1/2" instantaneous Female coupling to BS336
Inlet 2 1/2" Flanged ANSI 150; Suitable for BS4504 PN 16, BS 10 Table 'H' and DIN ND 16.

Finishes:

Brass, Chrome or red painted.



BREECHING INLET



MODEL: LF-BI/2

MODEL: LF-BI/4



BREECHING INLET CABINET

Available for

2-WAY Breaching Inlet: *SDR 096*

4-WAY Breaching Inlet: *SDR 116*

2-Way and 4-Way Breaching Inlet body is made of spheroidal graphite iron according to BS 2789 with inlet flange of BS4504 and outlet of BS 1400 Lg2.

These are intended to be used by the fire brigade to provide them readily available means of water in considerable quantities to prevent the spread of fire

Inlet:

Copper Alloy to Bs1400

Outlet:

Flange table E.D. or 16/21 of BS4504

Finishes:

Red color paint



COMBINATION NOZZLES



LF-11D



LF-11Q



LF-12D



LF-13AP



LF-13BP



LF-14B



LF-15B



LF-15DSF

Combination Nozzles are made of primary aluminum alloy. These alloys undergo thermal treatment to obtain a hard coat anodized finish. Adjoining part of this nozzle is converted with Teflon.

Features

Double stop ball shutoff - adjustable seat foam stem for AFFF application, Flush without shutting down, Wide range of gallonages available, Gallonages easily can be changed in the field.

MODEL NO.	SIZE	FLOW RATE 3kgf/cm ²	LENGTH	WEIGHT
LF-11D	Lf65 (2½")	800 lpm	290 mm	1.85 kg
LF-11Q	QUICK65	800 lpm	285 mm	1.90 kg
LF-12A	Fe40 (1½")	475 lpm	150 mm	1.30 kg
LF-12D	FE65 (2½")	800 lpm	170 mm	2.10 kg
LF-13AP	Fe40 (1½")	440 lpm	205 mm	2.10 kg
LF-13BFP	FE65 (2½")	645 lpm	290 mm	2.40 kg
LF-14	Fe40 (1½")	330 lpm	180 mm	1.50 kg
LF-14B	Fe40 (1½")	440 lpm	205 mm	1.80 kg
LF-15B	FE65 (2½")	645 lpm	290 mm	2.20 kg
LF-15DSF	FE65 (2½")	800 lpm	310 mm	2.40 kg



COUPLINGS, ADAPTORS & CAPS

* all items available in
Aluminum Alloy (A)
Bronze (B)
Gun Metal (GM)



Delivery Hose Couplings-
Instantaneous with serrated tails
LFWR 110* & SFWR 079*
1½" and 2½"



Storz - Serrated Tail
LFSZ 150*
1½" and 2½"



Storz - Female Thread Adaptor
LFSZ 200*
1½" and 2½"



NH American System Coupling (NST)
LFSZ 300*
1½" and 2½"



Instantaneous Adaptor
(Double Male)
LFMIS 008*
65mm (2½")



Female Instantaneous - Female Screw
Thread Adaptor (NST or BSP)
LFHYD 068*
65mm (2½")



Male Instantaneous - Male Screw
Thread Adaptor
LFMIS 009*
65mm (2½")



Cap & Chain
MALE: LCC/ML
FEMALE: LCC/FL
1½", 2 and 2½"



Female Instantaneous - Male Screw
Thread Adaptor
LFMIS 010*
65mm (2½")



Male Instantaneous - Female Screw
Thread Adaptor
LFMIS 011*
65mm (2½")



Female Screw Thread - Male
Instantaneous Adaptor
LFMIS 222*
100mm Female, 65mm Male



Male Screw Thread - Female
Instantaneous Adaptor
LFMIS 221*
100mm Female, 65mm Male



Instantaneous Adaptor
(Double Female)
LFHYD 083*
65mm (2½")



Male Instantaneous Adaptor
Blank Cap
LFMIS 012*
65mm (2½")

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HEADQUARTERS:
Unit 8, Calibre Industrial Park,
Laches Close, Four Ashes,
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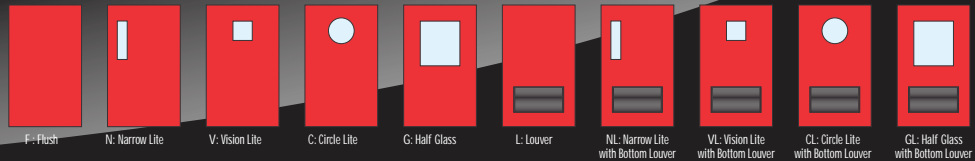
TEL: +44 (0) 1902 798 706
FAX: +44 (0) 1902 798 679
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MIDDLE EAST Office
P.O.Box: 18605, Jebel Ali Free Zone,
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FIRE DOORS



LIFECO's fire rated doors are made of Cold Rolled Steel, Galvanized Steel or Stainless Steel. These doors are designed for areas where strength, stability and durability are a priority. Typical applications include entrances to industrial premises, to shops' service doors, to basements, to stair wells and to elevator shafts. They are also widely used as dividing or external doors in electrical and petrochemical plants.

There are three types of fire doors, on the basis of insulation material

1. PSD - Polyurethane Steel Door
2. RSD - Rock Wool Steel Door
3. CSSD - Ceramic Stiffened Steel Door

DOOR NO.	TYPE	DOOR LEAF SIZE width x height	OVERSIZE FRAME SIZE width x height	DOOR BLADE WEIGHT kg
D-1	Single	800 x 2000 mm	876 x 2038 mm	55
D-2	Single	900 x 2000 mm	976 x 2038 mm	62

NOTE:

1. Three hinges (2 BB 100 2.5mm SSS) are included for each door leaves
2. One pair of flush bolts (FRL FB-002) and steel astragal are included in double door



SPRINKLERS

UPRIGHT SPRINKLER
 STANDARD: LF-LIFECO003
 QUICK RESPONSE: LF-LIFECO004



PENDANT SPRINKLER
 STANDARD: LF-LIFECO005
 QUICK RESPONSE: LF-LIFECO006



ESCUTCHEON PLATE
 SINGLE: LF-ESC/1
 DOUBLE: LF-ESC/2



The **Standard/Quick Response Pendant type and Upright Type Sprinklers** are automatic sprinklers of the frangible bulb type. They are standard orifice spray sprinklers intended for use in fire sprinkler systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval Agency. The Pendant Sprinklers produce a hemispherical water distribution pattern below the deflector.

ESCUTCHEON PLATE

One & Two piece Escutcheon plate is designed to enhance the appearance of the pendant sprinklers when installed below the ceiling. Escutcheon Plate provides a decorative closure of the annular space between the sprinkler and the ceiling.

FEATURE	DESCRIPTION
Response & Bulb Nominal Diameter	<ul style="list-style-type: none"> ■ Standard Response Ø5mm ■ Quick Response Ø3mm
Temperature Classification	Ordinary, Intermediate, High, Extra High
Nominal Temperature Rating	57°C, 68°C, 79°C, 93°C
Glass Bulb Color	Orange, Red, Yellow, Green
Thread Size	½" NPT
Orifice Size	½"
K-Factor	5.6
Maximum Working Pressure	175psi (12bar)
Factory Hydrostatic Test	100% @ 500psi (34bar)

Specifications are same for all types of Sprinklers



SPRINKLERS

HORIZONTAL SIDEWALL SPRINKLER
 STANDARD: LF-LIFECO001
 QUICK RESPONSE: LF-LIFECO002

horizontal side wall



CONCEALED PENDANT SPRINKLER
 STANDARD: LF-LIFECO007 (WHITE/CHROME)
 QUICK RESPONSE: LF-LIFECO008 (WHITE/CHROME)

concealed pendant



Horizontal Sidewall Sprinklers are generally used in lieu of pendant and upright sprinklers because of building construction or installation economy considerations. They are designed for installation along a wall or the side of a beam and just beneath a smooth ceiling. Installed with their centerline of waterway horizontal, these sprinklers produce a quarter spherical water discharge pattern that is predominantly directed downward and outward from the deflector; however, a portion of the spray is also directed towards the back wall.

Concealed Pendant Sprinklers includes a cover plate assembly that conceals the sprinkler operating component above the ceiling. The cover plate assembly, which installs on to the sprinkler/ mounting cup assembly consists of a cover plate that is soldered to an enclosure at three equidistant locations around their peripheries, the ejection spring is located between the flange of the enclosure and the cover plate, to ensure separation of the two pieces when the solder melts.

FEATURE	DESCRIPTION
Response & Bulb Nominal Diameter	<ul style="list-style-type: none"> ■ Standard Response Ø5mm ■ Quick Response Ø3mm
Temperature Classification	Ordinary, Intermediate, High, Extra High
Nominal Temperature Rating	57°C, 68°C, 79°C, 93°C
Glass Bulb Color	Orange, Red, Yellow, Green
Thread Size	½" NPT
Orifice Size	½"
K-Factor	5.6
Maximum Working Pressure	175psi (12bar)
Factory Hydrostatic Test	100% @ 500psi (34bar)

Specifications are same for all types of Sprinklers



WATER FLOW INDICATOR



LIFECO's Water Flow Indicator is placed on the automatic water sprinkler systems pipeline to identify the flow of water in case of a fire outbreak. When a flow of water is detected by a clapper or vane, a signal will be transmitted to the control panel

TECHNICAL SPECIFICATION

Max Working Pressure : 1.2MPa
 Contact Capability : AC 220V SA
 : DC 24V A
 Contact Outlet : Pair of opener and closer
 Retarding Time : 20 - 90s (We also supply the water flow indicator without delay mechanism)

THREAD TYPE

MODEL	NOMINAL DIAMETER
LF JZ-Y-25	25
LF JZ-Y-32	32
LF JZ-Y-40	40
LF JZ-Y-50	50

SADDLE TYPE

MODEL	NOMINAL DIAMETER
LF JZ-A-50	50
LF JZ-A-65	65
LF JZ-A-80	80
LF JZ-A-100	100
LF JZ-A-125	125
LF JZ-A-150	150
LF JZ-A-200	200



PRESSURE SWITCH



LIFECO's **LF/JY** Pressure Switch is designed to detect the flow of water through pressure variation in an automatic water sprinkler system. It usually is mounted on the outlet of the retard chamber and transmits a signal to control panel identifying flow of water in the system.

SPECIFICAITONS

Leak Test	: 2.4Mpa
Rated Working Pressure	: 1.2MPa
Operating Pressure	: <.05MPa
Contact Capacity	: AC 220V/5A - DC 24V/3A
Joint Thread	: R $\frac{1}{2}$

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Unit 8, Calibre Industrial Park,
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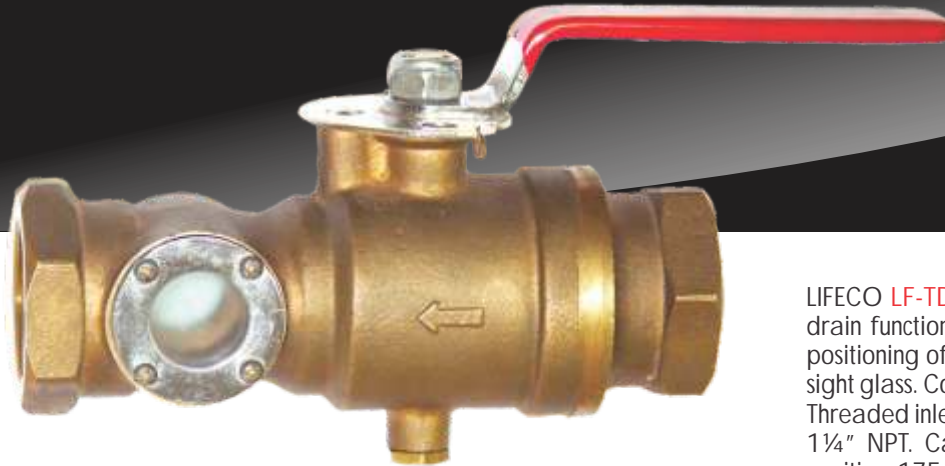
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FAX: +44 (0) 1902 798 679
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TEST & DRAIN



LIFECO **LF-TD** provides both the test function and the drain function for a wet fire sprinkler system. Positive positioning of handle for OFF, TEST or DRAIN, Integral sight glass. Complies with all requirements of NFPA-13. Threaded inlet and outlet connection. Available in 1" or 1¼" NPT. Can be installed in horizontal or vertical position. 175psi Pressure Rated.

AVAILABLE VALVE SIZES

25 mm (LF-TD/25)

32 mm (LF-TD/32)



WET ALARM VALVE



Water motor alarms are mechanical devices actuated by a flow of water. They are designed to sound a continuous alarm while a sprinkler system operates. An alarm is a required component of every sprinkler system having more than 20 sprinklers.



LIFECO Wet Alarm Valves are designed to hold back water pressure in the piping system until the sprinkler is activated, to be used in wet pipe sprinkler installations in buildings not subject to freezing temperatures.

Alarm valve includes trim packages valves, gauges, pressure switch, fittings and nipples to provide retard chamber connection, drain connections and alarm test bypass.

ACCESSORIES

Standard trim, Retard chamber, Water motor alarm, Pressure switch

STANDARD FINISH: Red Enamel

LF-WA/A4 : 4" Wet Alarm Valve
LF-WA/A6 : 6" Wet Alarm Valve

TECHNICAL DATA

SIZE : 4" & 6"
Maximum Working Pressure: 175psi
Hydrostatic Test : 100 @ 350psi
Flange Dimension : Class 125 ANSIB 16.1/
Class 150 B 16.5



PRESSURE GAUGE



MODEL: HDP

All components are corrosion resistant, the indications are accurate and distinct for reading

TECHNICAL SPECIFICATION

BODY	Stainless Steel
THREAD	¼" BSP
NOMINAL SIZE	0 - 250 psi Max.
POINTER	Black
NOMINAL SIZE	3½"

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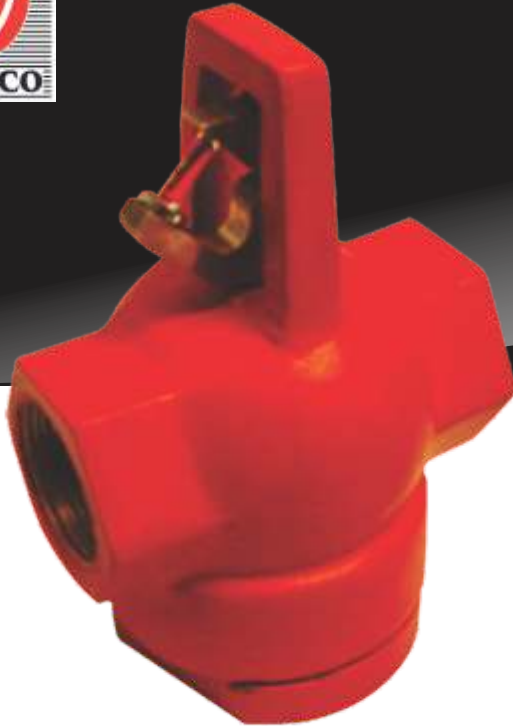
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MULTIPLE JET CONTROL VALVE



Multiple Jet Control Valve does have a thermally actuated release element, which detects the fire and directs the water flow to a selected area to water or to give sprinkler alarm.

TECHNICAL SPECIFICATION	
MODEL	M - Single Outlet
	MD - Double Outlet
SIZE	1) 32 NB Inlet - 25 NB Single Outlet
	2) 40 NB Inlet - 32 or 25 NB Double Outlet
RATED WORKING PRESSURE	12 bar
TEMPERATURE RATING	57°C, 68°C, 79°C and 93°C
THREAD OPENING	Fe. BSP Connection, (NPT Optional)
FACTORY HYDROSTATIC TEST PRESSURE	25 kg/cm ² (For Housing)
	15 kg/cm ² (For Seat)
FINISH	Brass Finish or Red Painted



FIRE DEPARTMENT CONNECTION



Model FDCA (straight pattern) Fire Department Connections with single clapper 4 x 2 1/2" x 2 1/2" Siamese type. The clapper design allows for one or both inlets to be pressurized during operation and provide supplementary water supply connection for automatic sprinkler systems as per NFPA13.

WALL PLATES

The wall plates are constructed of corrosion resistant aluminium alloy with marking "AUTO SPKR" and "FIRE DEPT CONNECTION".

Optional: Cast brass plate available upon request.

CAPS

The breakaway caps are supplied in heavy duty plastic or cast aluminium alloy for the protection of 2 1/2" inlets.

Optional: 2 1/2" Brass Coupling (Male) with Chain.

TECHNICAL DATA

SIZE: Outlet 4" (102mm) NPT Female
Inlet 2 1/2" (64mm) NST Male

Maximum Working Pressure: 300psi

Test Pressure: 600psi

STANDARD FINISH

FDC - Rough Brass

Material Rough Brass C85700 for FDC

Wall Plates - Red Enamel paint with raised letters painted white

Caps: Red Plastic or Red Enamel paint

Optional: Chrome Finish available on request



DELUGE VALVE



A **Deluge Valve** is known as a system control valve in a deluge system, which is used for fast application of water in a spray system. They are used to protect areas such as power transformer installation, storage tank, conveyor protection, etc. With the addition of foaming agent they do protect aircraft hangar and inflammable liquid fire. LIFECO Deluge Valve is a quick release, hydraulically operated diaphragm actuated type of valve.

Finish: Fire Red Epoxy Painted.

Size

: 2" (LF-DV A/50) (LF-DV H/50)*
: 3" (LF-DV A/80) (LF-DV H/80)*
: 4" (LF-DV A/100) (LF-DV H/100)*
: 6" (LF-DV A/150) (LF-DV H/150)*
: 8" (LF-DV A/200) (LF-DV H/200)*

Rated Working Pressure
Thread Opening
Factory Hydrostatic Test Pressure
Flange Connection

: 175psi
: BSPT (NPT-Optional)
: 350 psi
: ANSI B 16.5

* MODEL A: For Vertical inlet to Horizontal outlet mounting
MODEL H: For Horizontal OR Vertical mounting

DRY PILOT BASIC TRIM ASSEMBLY
WITH TEST AND ALARM, DRAIN & DRIP VALVES
50NB | 80NB | 100NB | 150NB | 200NB
WITH GALVANISED STEEL TRIM FOR HORIZONTAL MOUNTING

80NB | 100NB | 150NB | 200NB
WITH GALVANISED STEEL TRIM FOR VERTICAL MOUNTING
80NB | 100NB | 150NB | 200NB

WET PILOT BASIC TRIM ASSEMBLY
WITH TEST AND ALARM, DRAIN & DRIP VALVES
50NB | 80NB | 100NB | 150NB | 200NB
WITH GALVANISED STEEL TRIM FOR HORIZONTAL MOUNTING

80NB | 100NB | 150NB | 200NB
WITH GALVANISED STEEL TRIM FOR VERTICAL MOUNTING
80NB | 100NB | 150NB | 200NB

ELECTRICAL RELEASE TRIM ASSEMBLY
NEMA4
EXPLOSION PROOF

WATER FLOW ALARM TRIM ASSEMBLY
NEMA4
EXPLOSION PROOF



HIGH VELOCITY WATER SPRAY NOZZLE



LIFECO High Velocity Water Spray Nozzles are internal swirl plate type open nozzles designed for use in fixed water spray or deluge system for the fire protection application. These nozzles produce solid uniform and dense core of high velocity water spray to affect fire control. Nozzles are normally used to cool the surface as well as for extinguishment. Nozzles are typically used for deluge protection of special hazards such as oil filled transformers, switch-gear, chemical process equipments, conveyor system and flammable liquid storage areas.

Finishes: Brass Finish, Nickel Chrome Plated (Optional).

TECHNICAL SPECIFICATIONS:

Model	: HV-AS with Strainer
	: HV-A without Strainer
Rated Working Pressure	: 175psi
Maximum Effective Working Pressure	: 50 to 150psi
End Connection	: 3/4" BSPT (3/4" NPT-Optional)
Material	: Housing & Scroll-Brass

INCLUDED WATER SPRAY ANGLE AND K-FACTOR

SPRAY ANGLE	75°	80°	90°	100°
K-FACTOR, Metric (US)	22 (1.54)	18 (1.26)	32 (2.24)	26 (1.82)

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Laches Close, Four Ashes,
Wolverhampton, WV10 7DZ
United Kingdom

TEL: +44 (0) 1902 798 706
FAX: +44 (0) 1902 798 679
MAIL: sales@lifeco-uk.com

MIDDLE EAST Office
PO.Box: 18605, Jebel Ali Free Zone,
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MEDIUM VELOCITY WATER SPRAY NOZZLE



LIFECO Medium Velocity Water Spray Nozzles have an external deflector, which discharge water in a directional cone shaped pattern of small droplet size. The water is uniformly distributed over the surface to be protected. The nozzle is used in deluge water spray system for special hazard fire protection application. As the design and intent of specific water spray systems may vary considerably, a MV nozzle is made available in several combinations of orifice sizes and spray angles.

Finishes :
 Model A - (Brass or Nickel Chrome Plated) **LF-MV A**
 Model B - (Natural Finish) **LF-MV B**

TECHNICAL SPECIFICATIONS:

Rated Working Pressure : 175psi
 Maximum Effective Working Pressure : 20psi Min. to 100psi Max.
 End Connection : ½" BSPT (½" NPT-Optional)
 Material : Model A-Brass
 Model B-SS

Included Water Spray Angle for Each K-FACTOR:

140°, 120°, 110°, 100°, 90°, 80°, 65°

ORIFICE SIZE AND K-FACTOR									
mm	6.0	7.0	7.5	8.0	9.0	10.0	11.0	12.0	12.5
K-FACTOR, Metric (US)	22 (1.54)	30 (2.10)	35 (2.45)	41 (2.87)	51 (3.57)	64 (4.48)	79 (5.53)	91 (6.37)	102 (7.14)



FIRE PROTECTION VALVES: GATE VALVE



OS&Y

MODEL CODE: 3299-*WP-TYPE*LF

Sizes : 2 1/2" - 12"
Working Pressures (WP): 200psi
250psi
300psi
Types : Flanged (F)
Grooved (G)
Flanged x Grooved (FXG)
Approvals : FM Approved
UL Listed

NRS

MODEL CODE: 3288-*WP-TYPE*LF

Sizes : 2 1/2" - 12"
Working Pressures (WP): 200psi
250psi
300psi
Types : Flanged (F)
Grooved (G)
Flanged x Grooved (FG)
Mechanical Joint (MJ)
Flanged x Mechanical Joint (FXMJ)
Approvals : FM Approved
UL Listed



FIRE PROTECTION VALVES: CHECK VALVE



FLANGED

MODEL CODE: 5201-WP-FLF

Sizes : 2" - 12"

Working Pressures (WP): 200psi
300psi

Approvals : FM Approved
UL Listed

GROOVED

MODEL CODE: 5904-WP-GLF

Sizes : 2 ½" - 12"

Working Pressures (WP): 200psi
300psi

Approvals : FM Approved
UL Listed

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HEADQUARTERS:
Unit 8, Calibre Industrial Park,
Laches Close, Four Ashes,
Wolverhampton, WV10 7DZ
United Kingdom

TEL: +44 (0) 1902 798 706
FAX: +44 (0) 1902 798 679
MAIL: sales@lifeco-uk.com

MIDDLE EAST Office
P.O.Box: 18605, Jebel Ali Free Zone,
Dubai, U.A.E.
TEL: +971 4 880 98 90
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FIRE PROTECTION VALVES: BUTTERFLY VALVE



WAFER

MODEL CODE: 2305-*WP-LF*

Description : EPDM Seat with Tamper Switch

Sizes : 2" - 12"

Working Pressures : 200psi
300psi

Approvals : UL Listed

GROOVED

MODEL CODE: 2905-*WP-LF*

Description : EPDM Seat with Tamper Switch

Sizes : 2" - 12"

Working Pressures : 200psi
300psi

Approvals : UL Listed



FIRE PROTECTION VALVES: INDICATOR POST



WALL TYPE

MODEL NO.: LF-WP999

Description:

Used for application where a valve is installed behind a wall.

The wall flange of the Wall Type Indicator Post is tapped for 4" schedule 40 steel pipe (furnished by customer) which extends through the wall.

Hand Wheel Operation

Approvals : FM Approved
UL Listed

VERTICAL TYPE

MODEL NO.: LF-IP888

Description:

Vertical Type Indicator Post enables underground fire line valve to be operated at ground level with operating wrench. LIFECO Adjustable Indicator Post provides means to operate a buried or otherwise inaccessible valve. Also, the indicator post readily and clearly indicates whether the valve is open or shut. All our indicator post has 1/2" PT plugs to allow a supervisory switch to be installed. They are designed to operate valves 2 1/2" to 12" and have an adjustable range from 32" to 56" max.

Approvals : FM Approved
UL Listed





DRY BARREL HYDRANT

FM



The **LF-FM1510 (FM APPROVED)**, 6" Diameter, Dry hydrants are pressurized and drained through the workings of a main valve located in the base of the hydrant. When the main valve is opened, the barrel is pressurized; when the main valve is closed the barrel drains.

The single main valve is located in the base of the hydrant adjacent to the inlet connection. In addition, the dry barrel hydrant is equipped with an automatically operated drain valve. When the main valve is closed, the drain valve automatically opens, draining all water from the barrel of the hydrant. When the hydrant is opened, the drain valve automatically closes.

The main valve is located below the normal frost line to protect the hydrant from freezing. This allows the dry barrel hydrant to be used almost anywhere.

FEATURES

- One pumper nozzle with 4.5"-4" NH thread and 2 hose nozzles 2.5"-7.5" NH thread
- "Break-away" flange, which allows the hydrant to break off at ground level if struck by traffic, usually without damaging the valve at the bottom
- Black dry-barrel containing the stem that connects the valve with the operating nut
- Extension permitting the water supply for the hydrant to be buried and connected to the dry-barrel by a bolted flange
- Valve seat flange that connects the dry-barrel with the water-filled pipe
- 90° bend that joins the valve and seat to the water pipe
- Drain valves that automatically open and allow rapid and complete drainage of the hydrant barrel eliminating danger of damage to the hydrant by freezing

STANDARD MODELS

100LFHX - 4" Diameter Long/Short

150LFHX - 6" Diameter Long/Short

Available in Barrel Lengths (X) of 800mm & 1200mm

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United Kingdom

TEL: +44 (0) 1902 798 706
FAX: +44 (0) 1902 798 679
MAIL: sales@lifeco-uk.com

MIDDLE EAST Office
P.O.Box: 18605, Jebel Ali Free Zone,
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WET BARREL HYDRANT



MODEL NO:
LHC-50

Wet Fire Hydrant is used in places where there is no danger of vehicle accidents or freezing atmospheres. It is better to be used in malls, shopping centers colleges, hospitals, etc.

TECHNICAL FEATURES

The hydrant material is cast iron.

The entire hydrant is made by casting.

The 4" shell hydrant is made according to BS750 standard.

Two numbers of 2 ½" hydrant landing valves with cap and chain are provided with hydrants.

The valves are of NST threads and normal PN20 rating.
(other pressure ratings are available on request)



HYDRANT CABINETS



Cabinet doors are made of 1.2mm steel sheet with no sharp edges.
Corrosion Protection - cabinets are painted with Electrostatic Powder Paint open baked to protect against rust. Cabinet is designed to be weather proof.
All instructions are silk-screened on the Cabinet. No Sticker.

Standard Equipment:

- 2 pcs - Fire Hose Size 2.5"x100ft synthetic rubber lined with Aluminum Coupling.
- 2 pcs - Hose Nozzle 2.5 NST Thread
- 1pc-Adjustable Hydrant Wrench
- 1pc - Pin Lug Spanner Wrench
- Fire Axe
- 4pcs - 2.5" Rubber Gasket for Hose Couplings.

MODEL	LENGTH	WIDTH	DEPTH	HEIGHT OF LEGS
LHC/750 SERIES	1000 mm	800 mm	250 mm	600 mm
LHC/800 SERIES	1500 mm	800 mm	250 mm	100 mm



WATER MONITOR - SINGLE WATERWAY



LF-23WJ

It is designed to apply placing on outdoor hydrant, fire truck and etc. Constructed of cast bronze with hardened steel worm gears, fully enclosed gear cases for protection from the elements. 2-1/2" single water way with stainless steel 304 grade. One lever assures ease of operation vertical movement is 135° (90° above and 45° below horizontal) and horizontal movement is a full, continuous 360° (hand wheel remains stationary), and can stop any position with the positive locking mechanism. Grease zerk for easy lubrication.

FEATURES

- Lever controls both of horizontal and vertical positive twist locking system
- Fully covered dual-gears manual operation for protection from the elements
- 2-1/2" inside diameter stainless steel single waterway
- Cast bronze (ASTM c83600) & stainless steel water way
- 360° full horizontal and 135° vertical movement
- *Weight (per piece carton box):* approx. 29.5 kg ~ 31.0 kg
- *Dimensions (per piece carton box):* 420mm x 350mm x 730mm
- AVAILABLE IN:
 - ANSI #150, 4" flanged and 2½" NH male outlet
 - ANSI #150, 4" flanged and 3" NH male outlet
 - ANSI #150, 4" flanged and 4" NH male outlet



WATER MONITOR - DUAL WATERWAY



LF-26A

It is designed to apply placing on outdoor hydrant, fire truck and etc. Constructed of bronze or Cast iron with hardened steel worm gears, rotating gears is fully enclosed for protection from the elements. 2.0" dual water way with cast-in vane. Double hand wheel control assures ease of operation and positive lock in any position. Vertical movement is 135° (90° above and 45° below horizontal) and horizontal movement is a full, continuous 360° (hand wheel remains stationary), grease zerk for easy lubrication.

FEATURES

- Dual-gears manual operation
- 2-1/2" two way waterway
- Bronze construction ASTM c836 (or Cast iron)
- 360° full horizontal and 135° vertical movement
- ANSI #150, 4" or 6" flanged and 3" NH male outlet
- *Weight (per piece carton box):* : 29.0 kgs approx.
- *Dimensions (per piece carton box):* 420mm x 350mm x 580mm

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FIRE & SAFETY
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Unit 8, Calibre Industrial Park,
Laches Close, Four Ashes,
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United Kingdom

TEL: +44 (0) 1902 798 706
FAX: +44 (0) 1902 798 679
MAIL: sales@lifeco-uk.com

MIDDLE EAST Office
P.O.Box: 18605, Jebel Ali Free Zone,
Dubai, U.A.E.
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WATER MONITOR - DUAL WATERWAY

LF-23A

It is designed to apply placing on outdoor hydrant, fire truck and etc. Constructed of cast bronze or cast iron body. 2-1/2" double water way with cast-in vane assures ease of operation

Vertical movement is 120° (80° above and 40° below horizontal) and horizontal movement is a full continuous 360°, grease fittings at all swivel joints for easy lubrication.



FEATURES

- Lever operation
- 2" inside diameter double waterway
- Cast iron or cast bronze (ASTM c83600)
- 360° full horizontal and 140° vertical movement
- *Weight (per piece carton box):* 22 ~ 24 kgs approx.
- *Dimensions (per piece carton box):* 420mm x 350mm x 580mm
- AVAILABLE IN:
 - ANSI #150, 3" flanged and 2½" NH male outlet
 - ANSI #150, 3" flanged and 3" NH male outlet
 - ANSI #150, 3" flanged and 4" NH male outlet

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WATER MONITOR NOZZLES



LF-16CJ



LF-16J



LF-16JNW



LF-16JNW-2

MODEL	SIZE	FLOW RATE (0.7 Mpa)	LENGTH	WEIGHT	MATERIAL & REMARKS
LF-16CJ	NH 2½"	350/500 GPM	183 mm	4.6 kgs	Bronze
LF-16J	NH 2½"	750 GPM	205 mm	5.0 kgs	Bronze
LF-16NW	NH 2½"	350/500 GPM	178 mm	2.5 kgs	Aluminium Black Hard Anodized
LF-16JNW-2	NH 2½"	750/1000 GPM	191 mm	3.4 kgs	Aluminium Black Hard Anodized

Designed and engineered for industrial applications and heavy-duty use on fixed or portable monitors. Wide flows from 250 to 1000 GPM, and combination fog, straight stream and shut-off itself.

Model **LF-16CJ** & **LF-16J** with a single fixed gallonage flow, bronze construction for corrosion resistance.

Model **LF-16NW** & **LF-16JNW-2** with lightweight aluminium black anodized with round type handle for easy control of fog and straight stream. This type of nozzle is excellent for AFFF Application



HFC-227ea CLEAN AGENT SYSTEM



MODEL	DESCRIPTION
LF90035-E	35 LB - 1" Valve
LF90070-E	70 LB - 1" Valve
LF90150-E	150 LB - 1½" Valve
LF90250-E	250 LB - 1½" Valve
LF90375-E	375 LB - 1½" Valve
LF90560-E	560 LB - 2½" Valve
LF91200-E	1200 LB - 4" Valve

PRE-ENGINEERED UNITS

LIFECO Pre-Engineered Units are Clean Agent systems having pre-set quantities of agent "CHEMORI™" (HFC227ea) and specific flow rates in sets of pipes, fittings and nozzles for various hazards specifically limited to type and size by underwriters laboratories, based on actual fire test conducted. LIFECO provides units ranging from 3lbs, 6lbs, 12lbs and 18lbs that are super-pressurized to 240psig at 70°F. The larger models are 35lbs, 70lbs, 140ls, 360lbs and 520lbs that are super-pressurized to 360psig at 70°F. All these units are designed for Total Flooding Protection Against Class A surface burning, Class B flammable liquid and Class C fires occurring within an enclosure. LIFECO Pre-Engineered Systems are intended to be designed and installed in accordance to LIFECO's Design, Installation, Operation and Maintenance Manual, P/N LF-LP-SYSI.

MODEL	DESCRIPTION
LF 3	3LB - Basic Unit
LF 3L	3LB - Local Manual
LF 6	6LB - Basic Unit
LF 6L	6LB - Local Manual
LF 12	12LB - Basic Unit
LF 12L	12LB - Local Manual
LF 18	18LB - Basic Unit
LF 18L	18LB - Local Manual
LF 35	35LB - Basic Unit
LF 35L	35LB - Local Manual
LF 70	70LB - Basic Unit
LF 70L	70LB - Local Manual
LF 140	140LB - Basic Unit
LF 140L	140LB - Local Manual
LF 240	240LB - Basic Unit
LF 240L	240LB - Local Manual
LF 360	360LB - Basic Unit
LF 360L	360LB - Local Manual
LF 520	520LB - Basic Unit
LF 520L	520LB - Local Manual

ENGINEERED UNITS

The engineered concept of the CHEMORI™ (HFC227ea) Clean Agent System allows a range of flexibility in design parameters. Applications requiring individual flow calculation to determine the quantity of clean agent (HFC227ea) required for a specific Hazard volume, its set of pipes and fittings sizes, Applications requiring individual flow calculation to determine the quantity of Clean Agent (HFC227ea) required for a specific Hazard Volume, its set of pipes and fittings sizes, and the area of volume each nozzle covers can be calculated through the LIFECO Flow Calculation Software, Version LF3.10. LIFECO Engineered units have various sizes of CHEMORI™ cylinders ranging from 35lbs, 70 lbs, 150lbs, 250 lbs, 375lbs, 560lbs and 1200lbs. These cylinders are super-pressurized with nitrogen to 360 psig at 70°F and have an operating temperature range of 32°F to 130°F. The units are designed for Total Flooding Protection against Class A surface burning, Class B flammable liquid and Class C fires occurring within enclosure. The LIFECO Engineered Systems are to be designed and installed in accordance to NFPA 2001 and to comply with the LIFECO Design, Installation, Maintenance & Services Technical Manual P/N LF-90225-D

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HEADQUARTERS:
Unit 8, Calibre Industrial Park,
Laches Close, Four Ashes,
Wolverhampton, WV10 7DZ
United Kingdom

TEL: +44 (0) 1902 798 706
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MIDDLE EAST Office
PO.Box: 18605, Jebel Ali Free Zone,
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EAGLE SERIES: CONTROL PANELS



ANALOG ADDRESSABLE
FIRE ALARM CONTROL PANEL
LE-FN-4127 : 4 SLC LOOPS
LE-FN-2127 : 2 SLC LOOPS



LCD NETWORK ANNUNCIATOR
LE-FN-LCD-N



SERIAL LCD ANNUNCIATOR
LE-FN-LCD-S

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EAGLE SERIES: ADDRESSABLE



ANALOG MULTI
CRITERIA SENSOR
LE-ACA-V



PHOTOELECTRIC
SMOKE SENSOR
LE-ALG-V



PHOTOELECTRIC
SMOKE SENSOR
LE-ALK-V



HEAT SENSOR
LE-ATG-EA



ANALOG SENSOR BASE
LE-YBN-NSA-4



ANALOG SENSOR BASE
LE-YBN-NSA-6



ANALOG SOUNDER BASE
LE-ASB



EAGLE SERIES: CONVENTIONAL



PHOTOELECTRIC
SMOKE DETECTOR
LE-SLV-24V



PHOTOELECTRIC
SMOKE DETECTOR
LE-SLR-24V



PHOTOELECTRIC/HEAT
SMOKE DETECTOR
LE-SLR-24H



FIXED TEMPERATURE/
RATE OF RISE HEAT DETECTOR
LE-DCD 135/190



FIXED TEMPERATURE
HEAT DETECTOR
LE-DFE 135/190



COMPATIBLE BASE
HEAT DETECTOR BASE
LE-HSC-00R



COMPATIBLE BASE
DETECTOR BASE
LE-HSC-100



PROJECTED BEAM
SMOKE DETECTOR
LE-SPC-24



PROJECTED BEAM
SMOKE DETECTOR
LE-SRA-24



CONVENTIONAL
DETECTOR BASE
LE-HSC-00R : RELAY BASE
LE-HSC-4R : 4 WIRE BASE



CONVENTIONAL
DETECTOR BASE
LE-NS6 and LE-NS4 SERIES



CONVENTIONAL
SOUNDER BASE
LE-SBC



CONVENTIONAL
DETECTOR BASE
LE-HSC-00R : RELAY BASE
LE-HSC-4R : 4 WIRE BASE



FIRE ALARM
BELL
LFB 6 and LFB 8 : INDOOR
LFB 6W and LFB 8W : OUTDOOR

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EAGLE SERIES: MODULES



FAST RESPONSE
CONTACT MODULE



LE-FRCME-4

LE-FRCME-S

LE-FRCME-P



DUAL RELAY
MODULE
LE-DCP-R2M



SHORT CIRCUIT
ISOLATOR
LE-DCP-SCI



SUPERVISED
OUTPUT MODULE
LE-SOM

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EAGLE SERIES: CALL POINTS



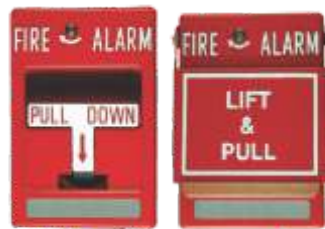
ADDRESSABLE MANUAL
PULL STATIONS



LE-DCP-AMS

LE-DCP-AMS-LP

MANUAL NON-CODED
PULL STATIONS



LE-HPS-SAH

LE-HPS-DAH



EXPLOSION PROOF
MANUAL PULL STATION

LE-HPS-SA-EX/WP



ALARM CALL POINT
(WITH COVER)

LF/B10



MANUAL
RELEASE STATION

LF/RS



EAGLE SERIES: DUCT DETECTORS



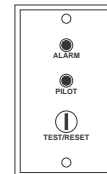
CONVENTIONAL
DUCT DETECTOR
LE-DH-98



ANALOG
DUCT DETECTOR
LE-DH-98



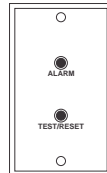
DUCT DETECTOR
REMOTE ACCESSORIES
MS-RA



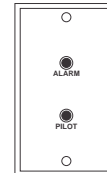
DUCT DETECTOR
REMOTE ACCESSORIES
MS-KA/P/R



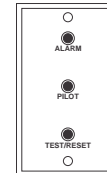
DUCT DETECTOR
REMOTE ACCESSORIES
MS-KA/R



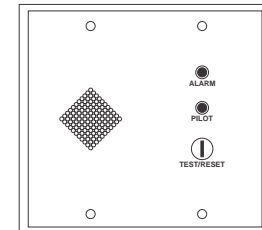
DUCT DETECTOR
REMOTE ACCESSORIES
MS-RA/R



DUCT DETECTOR
REMOTE ACCESSORIES
MS-RA/P



DUCT DETECTOR
REMOTE ACCESSORIES
MS-RA/P/R



DUCT DETECTOR
REMOTE ACCESSORIES
MS-RH/KA/P/R



ADDRESSABLE FIRE ALARM SYSTEM



ADDRESSABLE FIRE ALARM CONTROL PANELS

LF-6100-1/2

Capacity of 200/500 addressable devices
1-2 intelligent detection circuits
Upto 5 Secure & Independent module control functions

LF-6100-3/4

Capacity of 1000 addressable devices
3-4 intelligent detection circuits
Upto 16 Secure & Independent module control functions



INTELLIGENT PHOTO-ELECTRIC
SMOKE DETECTOR
LF-PE-6101



INTELLIGENT HEAT DETECTOR
LF-HD-6102



DETECTOR ISOLATING BASE
LF-DB-LI



INTELLIGENT UV
FLAME DETECTOR
LF-FD-6104



ADDRESSABLE
MANUAL CALL POINT
LF-MCP-6105



AUDIBLE AND VISUAL
ALARM INDICATOR
LF-AV-6125



ADDRESS PROGRAMMER
LF-6150



SIGNAL INPUT MODULE
LF-SI-6105



RELAY OUTPUT MODULE
LF-RM-6106



SHORT CIRCUIT ISOLATOR
LF-LI-6190



CONVENTIONAL ZONE INTERFACE
LF-CDI-6107



REMOTE CONTROL MODULE
LF-CSW-6154



REPEATER PANEL
LF-6150

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United Kingdom

TEL: +44 (0) 1902 798 706
FAX: +44 (0) 1902 798 679
MAIL: sales@lifeco-uk.com

MIDDLE EAST Office
P.O.Box: 18605, Jebel Ali Free Zone,
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CONVENTIONAL FIRE ALARM SYSTEM

HEAT DETECTOR
LF-HD-4112



OPTICAL
SMOKE DETECTOR
LF-PE-4111



BATTERY OPERATED SMOKE DETECTOR
LF - SD - 40



CALL POINT SERIES
LF - B10



AUDIBLE AND VISUAL
ALARM INDICATOR
LF - SI - 6105



LED REMOTE INDICATOR
LFR - 100



CONVENTIONAL
CONTROL PANEL
LF-4000 SERIES



FIRE ALARM BELL
LFB6-8 / LFBW6-8



SIREN / SIREN WITH STROBE
LF - SI / LF - SS



FIRE ALARM & GAS
EXTINGUISHING PANEL
LF - EX



HIGH PERFORMANCE GAS DETECTOR
LF - GD



MANUAL RELEASE STATION
AND ABORT SWITCH
LF - RS & LF - AS

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MEGAFORCE ENGINES



MEGA  **FORCE**[®]

MEGA FORCE Diesel Engines are specially tailored to meet the customer's specification and optimum performance, thus guaranteeing the product best suited to the application.

Engine Fuel Systems calibrated to specific power and speed requirements, ensure **MEGA FORCE** Diesel Engines for maximum efficiency

MEGA FORCE Diesel Engines have long periods of idleness, coupled to routine testing at maximum speed and at times with no load, necessitates a power unit of exceptional qualities. The range offers from small cylinder engine giving an output of 19kW @ 2900rpm to a high powered configured engine of 400kw. All power units are manufactured to comply with strict control procedures (ISO 9001) and fully tested against the applicable standards in line with client requirements.

MODEL	KILOWATT (HP)	RPM	CONFIGURATION	BORExSTROKE (mm)	LENGTH (mm)
MFS 20	15 (20)	2900	2 INLINE NA	80 x 75	500
MFS 25	19 (25)	2900	2 INLINE NA	92 x 85	577
MFS 35	26 (35)	2900	3 INLINE NA	85 x 92	727
MFS 60	44 (60)	2900	3 INLINE NA	104 x 115	810
MFS 85	63 (85)	2900	4 INLINE NA	104 x 115	935
MFS 95	71 (95)	2900	6 INLINE NA	104 x 115	1166
MFS 110	82 (110)	2900	6 INLINE NA	104 x 115	1166
MFS 125	93 (125)	2900	4 INLINE T	104 x 115	1166
MFS 130	97 (130)	2900	6 INLINE NA	104 x 115	1166
MFS 175	130 (175)	2900	6 INLINE T	104 x 115	1166
MFS 200	150 (200)	2900	6 INLINE T	104 x 115	1166

Legend: NA - Naturally Aspirated T: Turbo Charged
Diesel Engines of High Capacities is available as per Customer Requirements



HITEC MOTORS



HITEC[®]

specifications

HITEC multipurpose motors are the ideal choice for installation in arduous environmental conditions. The range offers a variety of induction motors with a power rating of 0.09 kW (0.12 HP) to high powered motors providing 160kW (220 HP). Motors for other voltages, frequencies, specifications and non-standard features are available on request.

HITEC motor series are highly engineered to cope up with sudden load increases, longer thermal life, higher altitudes and voltage variations. All the motors are manufactured under strict quality control procedures (ISO 9001) and are fully tested against the applicable standard.

COMPONENT	MATERIALS	REMARKS
Finned Housing	Cast Iron	<ul style="list-style-type: none"> 4 holes for foot mounting
Stator	Insulated low-carbon magnetic steel laminations Cathode Copper	<ul style="list-style-type: none"> low carbon content guarantees long-term lamination pack stability welded packs Class F insulation
Rotor	Insulated low-carbon magnetic steel laminations Aluminum	<ul style="list-style-type: none"> rotor cage pressure die-cast in aluminum dynamically balanced rotor
Shaft	Steel	<ul style="list-style-type: none"> Superior grade with more torque absorbing capability
End Shields	Cast Iron	<ul style="list-style-type: none"> both drive end and non-drive end
Bearings	Cast Iron	<ul style="list-style-type: none"> ball bearings
Fan	Plastic Material or Aluminum Alloy	
Fan Cover	Pressed Steel	
Terminal Box	Cast Iron	

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GMAX PUMPS

specifications



	VERTICAL MULTI STAGE STAINLESS STEEL CENTRIFUGAL PUMP	SINGLE STAGE END SUCTION CENTRIFUGAL PUMP	SINGLE STAGE DOUBLE SUCTION SPLIT CASE PUMP
CAPACITY	upto 100m ³ /h upto 480gpm	upto 900m ³ /h upto 4000gpm	upto 20000m ³ /h upto 88000gpm
HEAD	upto 300 m upto 900 ft	upto 140 m upto 460 ft	upto 200 m upto 600 ft
TEMP.	upto 120°C upto 230°F	upto 105°C upto 200°F	upto 105°C upto 200°F
SPEED	2900rpm or 3500rpm 2900rpm or 3500rpm	2900/1450 rpm 3500/1750 rpm	2900/1450/980/740/580 rpm 3500/1750/1180/890/710 rpm
POWER	upto 45 kW upto 60 HP	- -	- -

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FIRE BLANKETS



Fire Blankets are available in different sizes and colours to suit domestic or industrial use. When removed from the container the blanket is held in the shield position, protecting the user from the fire. When draped over a fire the blanket starves the fire of oxygen, leading to rapid extinction. Topsec Fire Blankets can be used to wrap around a person whose clothes are on fire and can also be used to wrap around a hot or burning object for removal to a safe place.

Topsec- 1.0 m X 1.0 m, 1.2 m X 1.0 m, 1.2 m X 1.2 m, 1.8 m X 1.2 m, 1.8 m X 1.8 m.

Budget- 0.9 m X 0.9 m, 0.9 m X 1.2 m, 1.2 m X 1.2 m, 1.8 m X 1.2 m, 1.8 m X 1.8 m.

MODEL	BASIC FABRIC	FABRIC WEIGHT (gm/mt)	COATING TYPE	COATING WEIGHT (gm/mt)	BLANKET WEIGHT (gm/mt)	BS EN APPROVED	BS KITEMARKED	BAFE APPROVED
TOPSEC Euro	Glass Fibre	200	Silicon Rubber	35x2	270	Yes	Yes	Yes
TOPSEC Sterling	Glass Fibre	430	Silicon Rubber	35x2	500	Yes	Yes	Yes
Budget	Glass Fibre	430	None	N/A	430	No	No	No



EMERGENCY LIGHT



SINGLE TUBE
LF-8/NM3



DOUBLE TUBE
LF-2X8/NM3

Emergency lighting is a self-descriptive term. It is lighting for an emergency, whether it be caused by fire - when it is essential to quickly locate fire fighting equipment and identify exit routes from the premises. Emergency lighting is normally operated fully automatically and gives illumination of a sufficiently high level to enable persons to evacuate the premises safely. LIFECO have two models of emergency lights with Single tube and Double tube.

TECHNICAL SPECIFICATIONS	
Lamp	1 x 8W Fluorescent Tube
Rated Power Supply	220V - 240V / 50-60 Hz
Charging Time	Approx 24 Hrs. (When Battery is fully discharged)
Battery Back Up	5 - 6 Hrs
Operation Temperature	-10°C to +55°C

TECHNICAL SPECIFICATIONS	
Lamp	2 x 8W Fluorescent Tube
Rated Power Supply	220V - 240V / 50-60 Hz
Charging Time	Approx 24 Hrs. (When Battery is fully discharged)
Battery Back Up	3 - 4 Hrs
Operation Temperature	-10°C to +55°C

SUPPORTING LIVES FOR A FIRE-PROOF LIFE

Co2 EXTINGUISHERS
DRY POWDER EXTINGUISHERS
WATER EXTINGUISHERS
HALOTRON I EXTINGUISHERS
FOAM EXTINGUISHERS
WET CHEMICAL EXTINGUISHERS
FOAMMAX EXTINGUISHERS
MOBILE EXTINGUISHERS
EXTINGUISHER CABINETS
HOSE REELS
RUBBER HOSE CABINET
FIRE HOSE ACCESSORIES
RUBBER HOSE NOZZLES
HOSE RACK & CABINET
SYNTHETIC HOSE REEL
SYNTHETIC HOSE NOZZLES
SYNTHETIC HOSE CABINET
DOUBLE COMPARTMENT CABINET
FOAM WATER CABINETS
ANGLE HOSE VALVE
PRESSURE RESTRICTING ANGLE VALVE
OBLIQUE LANDING VALVE
STRAIGHT THROUGH LANDING VALVE
PRESSURE REGULATING VALVE
BREACHING INLET
COMBINATION NOZZLES
COUPLINGS, ADAPTORS AND CAPS
SPRINKLERS
SPRINKLER CABINET
WATERFLOW INDICATOR
PRESSURE SWITCH
TEST AND DRAIN
WET ALARM VALVE
WATER MOTOR AND GONG BELL
PRESSURE GAUGE
MULTIPET JET CONTROL VALVE
FIRE DEPARTMENT CONNECTION
DELUGE VALVE
HIGH VELOCITY WATER SPRAY NOZZLE
MEDIUM VELOCITY WATER SPRAY NOZZLE
GATE VALVES
CHECK VALVES
BUTTERFLY VALVES
INDICATOR POST
DRY BARREL HYDRANT
WET BARREL HYDRANT
HYDRANT CABINETS
MONITOR M SERIES
MONITOR MG SERIES
SINGLE WATERWAY MONITOR
DUAL WATERWAY MONITOR
MASTER STEAM NOZZLE
HFC-227ea CLEAN AGENT SYSTEM
CONVENTIONAL FIRE ALARM SYSTEM
ADDRESSABLE FIRE ALARM SYSTEM
EAGLE SERIES
MEGAFORCE ENGINES
HITEC MOTORS
GMAX PUMPS
FIRE BLANKETS
EMERGENCY LIGHT

HEADQUARTERS:
Unit 8, Calibre Industrial Park,
Laches Close, Four Ashes,
Wolverhampton, WV10 7DZ
United Kingdom

TEL: +44 (0) 1902 798 706
FAX: +44 (0) 1902 798 679
MAIL: sales@lifeco-uk.com

MENA Region Office
P.O.Box: 18605, Jebel Ali Free Zone,
Dubai, U.A.E.
TEL: +971 4 880 98 90
FAX: +971 4 880 98 22



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