LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.

LIFECO

PRODUCT CATALOGUE

www.lifeco-uk.com

ANNIVERSARY 25 YEARS

WE AIM TO MAKE THE WORLD A SAFER PLACE

THE CORNERSTONE 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 system. LIFECO, with its world headquarters 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 and Commercial markets with its wide range of quality and innovative products. LIFECO is represented globally with its well knit National and International infrastructure of distributors. 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.

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APPROVAL GUIDE

PRODUCTS	UL	FM APPROVED	LPCB	♥	UKCA
STANDPIPE SYSTEMS					
Fire Hose Reels			LPCB		UKCA
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Fire Department Connection	UL	FM			
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LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.
SOME OF OUR PROJECTS
IN DIFFERENT COUNTRIES

PROJECT	SECTOR	PROJECT DETAILS	COUNTRY
EXPO 2020	Commercial	Fire Fighting Equipment	UAE
IKEA Big Box (Festival Plaza)	Commercial	Hydrants & Valves System	U.A.E
Mall of the Emirates Refurbishment	Mall	Clean Agent Extinguishing System	U.A.E
Burjeel Resort	Healthcare	Fire Fighting & Valves	U.A.E
The Distinction Tower, Business Bay	Residential	Clean Agent Extinguishing System	U.A.E
Paragon Mall	Mall	Fire Suppression System & Valves	U.A.E
Dubai Opera District – Phase 3	Commercial	Fire Fighting Equipment	U.A.E
Jebal Ali Resort	Hospitality	Fire Fighting System	U.A.E
One Zabeel	Residential	Fire Fighting System (Temporary)	U.A.E
Smart Police Station At City Walk	Commercial	Sprinklers System	U.A.E
The Palm Tower	Residential	Sprinklers System	U.A.E
Mina Tower	Residential	Fire Fighting Valves	U.A.E
Aurora Tower Media City	Residential	Clean Agent Extinguishing System	U.A.E
The Distinction Tower, Business Bay	Residential	Clean Agent Extinguishing System	U.A.E
Dubai Hills - Hill Park	Residential	Fire Fighting	U.A.E
Khazna Data Center	Industrial	Pre Action & Releasing System	U.A.E
IRIS DATA CENTER	Industrial	Pre Action System	U.A.E
GDH Data Center B4	Industrial	Pre Action System	U.A.E
Six Senses Hotel	Commercial	FF - VALVES & SPRINKLERS	U.A.E
GULF COST C1 & C8	Commercial	Fire Fighting System	U.A.E
GOLD FACTORY - Abu Dhabi	Commercial	FF - Valves & Sprinklers	U.A.E
Binghatticorner	Residential	FF - Valves & Sprinklers	U.A.E
Sheikh Zayed Schools (3 No)	Education	FF - Valves & Sprinklers	U.A.E
Abu dhabi Municipality - HO	Commercial	FF - Valves & Sprinklers	U.A.E
Neelkanth Cables Factory	Industrial	FF - Valves & Sprinklers	U.A.E
Hermes Data Center	Industrial	Pre Action System	U.A.E
Al khaleej sugar Factory	Industrial	Deluge System	U.A.E
Aloft Hotels	Commercial	Fire Pump System	Oman
Sugar Refinery	Industrial	Full Fire Fighting System	Oman
Tanmia Headquarters	Industrial	Fire Alarm	Oman
TELEFÓNICA Building	Commercial	Foam Systems	Chile
Cemento Melon	Industrial	Foam Systems	Chile
Codelco Rojo Inca	Industrial	Fire Fighting System	Chile
C271 & C218	Commercial	Fire Fighting & Fire Alarm systems	Iraq
Jordanian Armed Forces - Al Ewaa Project	Military	FF & PUMP	Jordan

LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.
SOME OF OUR PROJECTS
IN DIFFERENT COUNTRIES

PROJECT	SECTOR	PROJECT DETAILS	COUNTRY
Salmania Hospital	Healthcare	Fire Pump & Sprinkler System	Bahrain
BASF Plant at Hidd	Industrial	Fire Fighting System	Bahrain
BDF Polyclinic & Car Park	Healthcare	Fire Fighting- All	Bahrain
Toyota Central Parts Department	Commercial	Fire Fighting- All	Bahrain
King Hamad American Mission Hospital	Healthcare	Fire Fighting- FM 200	Bahrain
Nadeen International School	Education	Fire Fighting & Pumps	Bahrain
Orchid Tower Juffair	Residential	Fire Fighting & Pumps	Bahrain
Marassi Galleria	Mall	Fire Fighting & Pumps	Bahrain
Gulf Aviation Academy	Education	Design, Supply, Installation of FM-200 System	Bahrain
DOHA Festival City Qatar	Mall	Full Fire Fighting System	Qatar
Al Adabiya Port	Commercial	Fire Pump System	Egypt
Sharm El Sheikh Culture Palace	Commercial	Fire Pump System	Egypt
CANAL Sugar	Industrial	Fire Pump System	Egypt
NILE Dragon Boat	Commercial	Fire Pump System	Egypt
Touch Food Factory	Industrial	Fire Pump System	Egypt
Alfa Lab	Healthcare	Fire Pump System	Egypt
Legitimacy Assembly	Commercial	Fire Pump System	Egypt
HAYA KARIMA Health Unit	Healthcare	Fire Pump System	Egypt
Spinneys	Commercial	Fire Pump System	Egypt
MAX	Mall	Fire Pump System	Egypt
Housing & Development Bank	Residential	Fire Pump System	Egypt
Chinese Industrial TEDA (TLS Company)	Industrial	Fire Pump System	Egypt
Alex West Compound	Residential	Fire Pump System	Egypt
Sadat University	Industrial	Fire Pump System	Egypt
One Ninety (1-90)	Industrial	Fire Pump System	Egypt
Carrefour Market	Mall	Fire Pump System	Egypt
Fathalla Market	Commercial	Fire Pump System	Egypt
Maadi Capital Mall	Mall	Fire Pump System	Egypt
Sandolin Paint Factory	Industrial	Sprinkler/Standpipe	Uganda
Oyu Tologi Gold Mine	Industrial	Hose Rack Systems	Mongolia
ALM Seychelles	Commercial	Fire Fighting Systems	Seychelles
Saint Gabriel & Santa Maria Project	Commercial	Fire Fighting Systems	Palestine

LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.
SOME OF OUR PROJECTS
IN DIFFERENT COUNTRIES

PROJECT	SECTOR	PROJECT DETAILS	COUNTRY
Zouk Power Plant	Industrial	Fire Alarm System	Lebanon
Jieh Power Plant	Industrial	Fire Alarm System	Lebanon
Faisalabad Airport	Aviation	Fire Pump	Pakistan
Zarkon Heights Tower D	Residential	Fire Hose Reels, External Hydrants, Sprinklers, Fire Pump Set.	Pakistan
Kohistan Builders Head Office	Commercial	Fire Hose Reels, External Hydrants, Sprinklers, Fire Pump Set.	Pakistan
CCL Pharmaceutical	Industrial	Fire Hose Reels, External Hydrants, Sprinklers, Fire Pump Set.	Pakistan
Down-Town Mall	Commercial	Fire Sprinkler System	Pakistan
Rumanza Golf & Course Club	Commercial	Fire Hose Reels, External Hydrants, Sprinklers, Fire Pump Set.	Pakistan
Pakistan Engineering Council	Government	Fire Pump Set	Pakistan
Bus Rapid Transit (BRT) Dabgari	Government	Fire Pump Set	Pakistan
Serena Hotel	Commercial	Fire Sprinkler, Internal Fire Hose Reel, External Hydrant System with Fire Pump Set.	Pakistan
WASO	Commercial	Fire Hydrant System & Fire Extinguishers	Pakistan
Carrefour DHA Rahbar	Commercial	Fire Hydrant System & Fire Pump Set	Pakistan
CBD Parking Plaza	Commercial	Fire Hose Reels, External Hydrants, Sprinklers, Fire Pump Set.	Pakistan
Zaman Textile	Industrial	Fire Hydrants	Pakistan
Orient Textile	Industrial	Fire Alarm System	Pakistan
Dolmen Mall Clifton	Mall	Addressable Fire Alarm	Pakistan
United Commercial Bank Ltd (UCBL)	Bank	FK5112	Bangladesh
Baywatch Hotel	Hospitality	Pump, Valves, Hydrants, Sprinklers	Bangladesh
Super Star Electrical Accessories Limited	Industrial	Pump, Alarm, Valves, Hose	Bangladesh
Hameem Jeans Limited	Industrial	Valves, Sprinkler, Hose	Bangladesh
Summit Power Station Ltd- Power Plant	Industrial	Fire Fighting systems	Bangladesh
Eastern Refinery Limited	Industrial	Fire Fighting systems	Bangladesh
MIRPUR DOHS Shopping Complex	Mall	Fire Fighting & Fire Detection System	Bangladesh
Zyska Pharmaceuticals Ltd	Healthcare	Fire Fighting System	Bangladesh
Kolora Ink Chemical Corp	Industrial	Robin Addressable Fire Alarm System	Philippines
Rizal High school	Educational	Robin Addressable Fire Alarm System	Philippines
Congo Airport	Aviation	Fire Fighting Systems	Congo

LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.
SOME OF OUR PROJECTS
IN KSA

PROJECT	SECTOR	PROJECT DETAILS	COUNTRY
Qassim University	Education	Fire Fighting	KSA
Edge Towers - AL Rossays	Residential	Fire Alarm / Fire Fighting	KSA
TBC Schools	Education	Fire Alarm / Fire Fighting	KSA
Roshan Riyadh Township Residential	Residential	Fire Alarm / Fire Fighting	KSA
King Khaled International Airport, Block 4	Aviation	Fire Fighting	KSA
Naif Arab University for Security Sciences	Education	Fire Fighting	KSA
Buildings of Al-Fateh and Al-Ettifaq Club / Ministry of Sports	Sports	Fire Fighting & Pumps	KSA
Red Crescent training buildings	Hospitality	Fire Alarm / Fire Fighting	KSA
Hemodialysis building in Majmaah / Ministry of Health	Healthcare	Fire Alarm	KSA
NEOM School	Education	Fire Fighting	KSA
Riyadh Boulevard	Commercial	Fire Fighting	KSA
Al Baha Museum / Ministry of Culture	Hospitality	Fire Fighting	KSA
Al Dammam Museum / Ministry of Culture	Hospitality	Fire Fighting	KSA
Veterinary clinics building in Dawadmi Ministry of Environment, Water and Agriculture of Saudi Arabia	Residential	Fire Alarm / Fire Fighting	KSA
Officers and Personnel Housing Building / Ministry of Defense	Residential	Fire Fighting	KSA
Al Rabwa Square	Residential	Fire Fighting	KSA
Al Mashriqeh Housing Project NHC	Commercial	Fire Alarm / Fire Fighting	KSA
NEOM Main Acomedation	Residential	Fire Fighting	KSA
Novetal Hotel	Hospitality	Fire Fighting	KSA
King Abdullah Financial District	Commercial	Fire Fighting	KSA
My Medical Clinic Project	Hospitality	Fire Fighting	KSA
Safia Museum / Ministry of Culture	Hospitality	Fire Fighting	KSA
Training building / Ministry of Defense	Educational	Fire Fighting	KSA
Lulu Hypermarket	Commercial	Fire Fighting	KSA
Ibn Rushd Group of Schools (10 schools)	Educational	Fire Alarm	KSA
Barakat Factory for Chocolate and Sweets	Industrial	Fire Alarm / Fire Fighting	KSA
King Faisal Air Base	Aviation	Fire Alarm	KSA
Al Qassem Trade Shops	Commercial	Fire Alarm	KSA
Buqa' restaurants	Commercial	Fire Alarm / Fire Fighting	KSA
Fashion Exhibition in Khurais Mall	Commercial	Fire Alarm	KSA

LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.
SOME OF OUR PROJECTS
IN KSA

PROJECT	SECTOR	PROJECT DETAILS	COUNTRY
Tariq Al-Subaie's Workshops	Commercial	Fire Alarm / Fire Fighting	KSA
Nasser Al-Azma Nuts Factory	Commercial	Fire Alarm	KSA
Bander Bin Qadma's Workshops	Commercial	Fire Alarm / Fire Fighting	KSA
NEOM community expiation project	Residential	Fire Fighting	KSA
AMAALA Project	Commercial	Fire Fighting	KSA
South Ghawar TCF project	Commercial	Fire Fighting	KSA
Haradh TCF project	Commercial	Fire Fighting	KSA
Al Hezam Schools project	Education	Fire Fighting	KSA
Al Doha School Project	Education	Fire Fighting	KSA
ALTAMIMI Markets	Commercial	Fire Fighting	KSA
Tamimah University	Education	Fire Fighting	KSA
Globe Tec industrial Company	Industrial	Fire Fighting	KSA
Saudi industrial Lifters Company	Industrial	Fire Fighting	KSA
Ministry of Health, Health Clinics	Healthcare	Fire Alarms	KSA
Ministry of Interior, Public Security, Services	Commercial	Fire Alarms	KSA
Diplomatic Security Building	Commercial	Fire Alarms	KSA
Dimat Factory	Commercial	Fire Fighting	KSA
Olla Rekaz project	Commercial	Fire Fighting	KSA
Ministry of National Guards, Region Buildings	Residential	Fire Alarms	KSA
Civil Defense building for Crises and Disasters	Hospitality	Fire Alarms, Fire Fighting	KSA
Red Sea Projects	Commercial	Fire Fighting	KSA
Park in Hotel	Hospitality	Fire Fighting	KSA
National Water Project	Hospitality	Fire Alarm	KSA
Kimpnisky Hotel	Hospitality	Fire Fighting	KSA
Security forces Hospital	Healthcare	Fire Fighting	KSA
Via Riyadh Project	Industrial	Fire Fighting	KSA
Jabal Omar Projects	Industrial	Fire Fighting	KSA
Amaad Business Park project	Commercial	Fire Fighting	KSA
Royal Commission for Jubail and Yanbu	Industrial	Fire Fighting	KSA
Labor office and human development fund project	Industrial	Fire Fighting	KSA
Advanced Refrigeration Storage Company	Industrial	Fire Fighting, Fire Alarm, Fire Supprssion	KSA
STC Parking buildings	Commercial	Fire Alarm	KSA
Stores of the General Administration of National Water	Commercial	Fire Fighting	KSA

Fire Alarm System

Fire Alarm System is designed to alert us to an emergency so that we can take action to protect ourselves, staff and the general public. They are a part of our everyday routine but often overlooked until there is an emergency at which point, they might just save our lives.

The wide range of LIFECO product offers a powerful and sophisticated range of Analogue Addressable, Conventional and Extinguishant Control Panels available intelligent and technically robust. It ensures to meet the current and future needs exacting costumer's specifications from small to larger buildings and installations.

Addressable Fire Alarm System X500 Series

X500 Fire Alarm Control Panel

· LPCB Approved
· Compliance EN54-2 & EN54-4
· 1 to 4 loop (Expandable upto 6 loops)
· Support 254 Devices/One loop (1,016 ideal)
· Network up to 512 Node
· Programmable Capacity
· Zones up to 3000
· Sounders Groups 1-1000
· Other Groups 1001- 2000
· Built-in 160 LED Zones Indicator
· Enhance user interface combining LCD Touch screen and keypad access
· Support Multiple interface protocol such as USB/Ethernet/Can Bus/ Serial/ RS485/Fiber Optic
· Built-in Printer

The FACP is designed to provide early warning fire detection, to quickly identify the location of fire and provide user definable text informing the occupants of the building of potential smoke spread. Simultaneously, The FACP will alert and evacuate the occupants, and control all necessary auxiliary command functions such as elevator control, air handling shut down, gas shut off & damper control, as per the cause and effects requirements configured though Command Builder Set-up.

The FACP modular construction panel, capable of supervising four [4] monitored detection loops expandable up to six [6] loops on standalone basis. Each loop is capable to accommodate of 254 addressable devices of any combination with LIFECO protocols, namely intelligent sounder strobe LF-X5300 & intelligent sounder LF-X5320 complying with EN 54-3, rate of rise and fixed temperature heat detector LF-X5110 complying with EN 54-5, photoelectric smoke detector LF-X5100 complying with EN 54-7, intelligent manual call point LF-X5140 complying with EN 54-11, intelligent reflective beam detector (LF-X5130) complying with EN 54-12, input and output module LF-X5210, complying with EN54-18, and loop isolator LF-X5230 complying with EN 54-17. The LIFECO devices are fully loop powered to support saving cost of the cable.

Graphic Monitoring Software

LF-5812

With LF-X500 panel design a new set of software engineering monitoring system, through good architecture designed to meet various requirements of stand-alone monitoring system, network and other aspects of the system, the system is easy to operate, the interface is beautiful and generous.

Handheld Programmer

LF-X5932

The LF-X5932 is the general-purpose programming tool. This unit is designed to suit for entering device parameters such as address, sensitivity, mode and types to meet the site situation and environmental requirements. In addition, the programmer is capable to read the previous encoded parameters to use for testing application and troubleshooting purposes.

Compatible Devices for X500

LCD Repeater Panel

LF-X5330

LF-X5330 LCD Repeater Panel is designed with a built-in MCU processor to display exact fire event messages from the control panel and fast relay response with simultaneous audible and visual signal output. This repeater panel can also program to limit the zone display from All Zones into a particular zone or three adjacent zones through the panel key buttons. The unit is connected through the communication loop of Intelligent control panel along with the devices and can install up to 254 units per loop. The unit is manufactured base on the requirement of EN 54 part 2, European Standard.

Intelligent Graphic Mimic Panel

LF-X5331

LF-X5331 Intelligent Graphic Repeater Panel is designed with built-in MCU processor and it can fast relay response with simultaneous audible and visual signal output. The unit is connected through the communication loop of LF-X500 Intelligent control panel along with the devices and can install up to 254 units per loop. The repeater panel can be used whenever there is a need to relay information to multipoint informing key personnel. The unit is manufactured base on the requirement of EN 54 part 2, European Standard.

Intelligent Smoke Detector

LF-X5100

The LF-X5100 Intelligent Addressable Optical Smoke Detector is the ideal device for most applications, due to its spiffing linear response to a wide variety of different types of smoke patterns. The unit manufactured the sensitivity requirement of EN 54 part 7, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides Algorithm map, inbuilt A/D converter, Drift compensation, and Self-Diagnosis and History log.

Intelligent Heat Detector

LF-X5110

The LF-X5110 Intelligent Fixed and Rate of Rise Heat Detector is reliable for application in places where may have high dust level or smoky environments, making a normal smoke detector undesirable. The unit manufactured base on the sensitivity requirement of EN 54 part 5, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides inbuilt A/D converter, and Self-Diagnosis and History log.

Intelligent Multi-sensor Fire Detector

LF-X5120

The LF-X5120 Intelligent Multi-sensor Fire Detector is the ideal device for most applications, due to its spiffing linear response to a wide variety of different types of smoke patterns and combining with heat sensing sensor for temperature response. The unit manufactured base on the sensitivity requirement of EN 54 part 29, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides Algorithm map, inbuilt A/D converter, Drift compensation, and Self-Diagnosis and History log.

Conventional Reflective Beam Detector

LF-X5130

The LF-X5130 Conventional Reflective Beam Detector has built in Laser beam pointing and Digital guide display for real user friendly alignment method. The Laser beam pointing accurately point the exact location where to mount mirror and with additional digital guide display allows to monitor and guide on the actual light intensity between the mirror and detector which cannot be seen by our naked eye making it more easy and convenient in alignment commissioning.

Compatible Devices for X500

Base Mount Short Circuit Isolator

LF-X5232

The LF-X5232 manufactured base on the requirement of EN 54 part 17, European Standard. In the event of short circuit on the detection loop the LF-X5232 Isolators either side of the loop will detect the problem and open circuit and isolates the faulty part of the loop, enabling other devices on the unaffected part of the loop to operate normally. The isolator will continue to monitor for the fault to be repaired, once the fault is cleared the isolator will automatically reinstate the effected part of the loop.

Addressable Detectors Base

LF-X5980
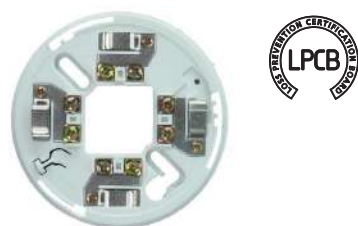
Used to mount LIFECO Intelligent LF-X5100 Smoke, LF-X5110 Heat, LF-X5120 Multi-sensor and sounder strobe base series. Made of flame-resistance plastic ABS, No electrical Circuit.

Intelligent Manual Call Point
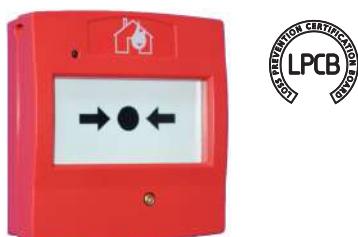
LF-X5140

The LF-X5140 Intelligent Manual Call point use a non-breakable glass which is designed to press under light pressure triggering the call point into an alarm condition, with LED indicator mounted onto the front face to simplify the location of an operated call point. Safe to press and no hammer is required. The protected flap on the lower part is used for reset through supplied special tool.

Addressable Sounder Strobe Base

LF-X5302

The LF-X5302 Addressable Sounder Strobe Base is an alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures.
The unit manufactured base on the requirement of EN 54 part 3, European Standard. The unit is compatible to the LF-X500 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture LIFECO, to avoid addressable communication compatibility problem.

Addressable Sounder Base

LF-X5322

The LF-X5322 Addressable Sounder Base is an alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit manufactured base on the requirement of EN 54 part 3, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer.

Addressable Single I/O Module

LF-X5210

The LF-X5210 Addressable Single Input/output Module is characterized as one input or output volt free relay and control module. The unit is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialler to fire brigade, BMS and etc.

The unit manufactured base on the requirement of EN 54 part 18, European Standard.

Compatible Devices for X500

Loop Isolator

LF-X5230

The LF-X5230 manufactured base on the requirement of EN 54 part 17, European Standard. In the event of short circuit on the detection loop the LF-X5230 Isolators either side of the loop will detect the problem and open circuit and isolates the faulty part of the loop, enabling other devises on the unaffected part of the loop to operate normally. The module will continue to monitor for the fault to be repaired, once the fault is cleared the isolator will automatically reinstate the effected part of the loop.

Addressable Dual I / O Module

LF-X5220

The LF-X5220 Addressable Dual Input/output Module is characterized as two inputs or outputs volt free relay and control module. The unit manufactured base on the equirement of EN 54 part 18, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the LF-X500 Analogue Intelligent Fire Alarm Control Panel.

Addressable Zone Monitor Unit

LF-X5201

The LF-X5201 Addressable Zone Monitor unit is an addressable interface module, which will integrate conventional detectors or conventional manual call points to addressable system. It has the function of checking short or open circuit of the output connection, by the End of Line Resistor (EOLR). The unit manufactured base on the requirement of EN 54 part 18, European Standard.

Addressable Input Module

LF-X5200

The LF-X5200 Addressable Input Module is used to acknowledge normally open monitor signal from interface equipment then send a communication signal to the control panel, ideally for monitoring the sprinkler system, pressure switch, position switch, signal valves and other third party equipment such as conventional panel.

The unit is manufactured based on the requirement of EN 54 part 18, European Standard.

Addressable Sounder Circuit Module

LF-X5211

The LF-X5211 Addressable Sounder Circuit Module unit is an addressable interface module, which will integrate conventional sounders or fire bell to addressable system. There are four signal output modes that can be selected according to the user requirement. It has the function of checking short or open circuit of the output connection, by the End of Line Resistor (EOLR). The fault massage includes open circuit, short circuit or any removal of the alarm device warning. The unit manufactured base on the requirement of EN 54 part 18, European Standard.

12 In / 2 Out Module

LF-X5223
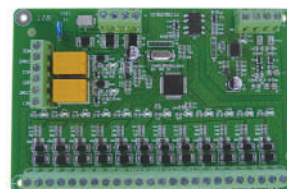
The LF-X5223 Addressable 12 Input / 2 output Module is characterized as 12 inputs power limited and 2 outputs volt free relay. 12 circuits Input Fire or Supervisory signal configuration, 2 circuits 24Vdc/3A Output relay contact and a Control module.

Compatible Devices for X500

Multi - I / O Module

LF-X5221
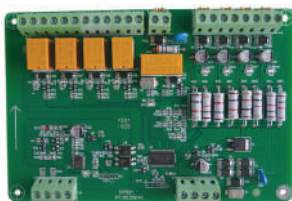
The LF-X5221 Addressable 4 Input/ 4output Module is characterized as 4 inputs power limited and 4 outputs volt free relay with additional sounder circuit output. The output relay is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialler to fire brigade, BMS, etc.

The unit is manufactured based on the requirement of EN 54 part 18, European Standard.

Intelligent PSU

LF-X24-5A & LF-X24-10A

EN54-4 Compliance Intelligent 5A or 10A Power supply unit. Can sit on the loop to monitor by the Fire control panel, Digital display showing output voltage and load current. Overload, overcharge and over usage protection, Fully Monitored with Self-test function , and Wall mount installation.

Addressable Sounder Strobe

LF-X5300

The LF-X5300 Addressable Sounder Strobe is alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi-application device starting from the types, parameters and wiring layout in single unit. The LF-X5300 can change into different alarm warning types such as sounder-strobe type, sounder type or strobe type using programming tool. In addition, parameters can be configured according to the requirement which include alarm tone from 17 different tones, single address or dual address mode and also setting of power mode to low current consumption in a simple programming.

Addressable Sounder

LF-X5320

The LF-X5320 Addressable Sounder is alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multiapplication device starting from the types, parameters and wiring layout in single unit. Parameters can be configured according to the requirement which include alarm tone from 17 different tones, ingle address or dual ddress mode and also setting of power mode to low current consumption in a simple programing.

X500 Optional Panel Peripherals

Model No.	Description	Details
LF-LC5004	Loop Card	Dual Loop Card for extra loops, suitiable for LF-X500
LF-NC5004	Network & Communication Card	1. Communication Card for Class A CAN Bus networkable. 2. USB port. 3. Ethernet Port 4. RS485/232 Serial Connection
LF-NC5004-IP	IP Network Card	1. Communication Card for Class A CAN Bus networkable. 2. USB port. 3. Ethernet Port. Support TCP/IP Networking 4. RS485/232 Serial Connection.
LF-NC5004-Modbus	ModBus Communication Card	1. Communication Card for Class A CAN Bus networkable. 2. USB port. 3. Ethernet Port. 4. RS485/232 Serial Connection. Support Modbus RTU signal output.
LF-MC201	Fiber Optic Interface Module	Required LF-NC5004 network card to configure to the LF-X500- series.

Addressable Fire Alarm System **Matrix Series**

Matrix Fire Alarm Control Panel

· UL Listed (Tenth Edition)
· 2 to 8 loop or 2 to 16 loop versions
· Single or Double Aperture (includes zone LED module & Printer)
· Modular and expandable electronics
· 4 programmable NACs; Class B or 2 Class A
· 7 inch, full-color resistive touch screen with intuitive user interface
· Power supply options (5.25A or 10.25A)
· Programmable (3) Inputs & (5) Relay Outputs
· Can be networked with programmable functionality
· Coincedence OR and AND operators in cause and effect
· Programming via USB or PC

The new Matrix product range fire alarm control equipment combines the very latest hardware & software to produce a control indication system, which is powerful & sophisticated, also simple to use and understand.

The 7" touch screen provides a clear, uncluttered and intuitive interface so the end user requires minimal training. Available in 4 slot and 8 slot variants, each slot supporting a 2 loop detection card, the Matrix fire control panel ranges from 2 to 16 detection loops. Network up to 127 panels, making it ideally to all buildings whether for a small system or large complex.

Matrix Network Vision Annunciator

LF-MC00NC-10

· Robust, full color, 7" 800 x 480 touch screen graphical display
· Replicates information displayed at the panel
· Internal buzzer
· Connects via control panel network terminals
· Low current, 24V DC powered
· Enable key-switch
· Surface or semi-flush enclosure options available

Matrix Optional Panel Peripherals

Description	Model No.
Dual Loop Panel Module	LF-M-S758
16 Channel I/O Interface	LF-M-K1171-00
Media Gateway Panel Module	LF-M-S788
8 Channel Relay Panel Module	LF-M-S791
Network Module	LF-M-S723
Printer	S768
Zone LED Module	S771
5.25 Amp power supply	LF-M-S406
10.25 Amp power supply	LF-M-S408

Compatible Devices for Matrix Series

Photoelectric Smoke Sensor

LE-ALN-V

The Photoelectric Smoke Sensor is suited to detecting optically dense smoke typical of fires involving materials such as soft furnishings, plastic, foam, or other similar materials, which tend to smolder and produce large visible smoke particles.

This product model number may change when UL 7th edition product is ready.

Fixed Temp/ROR Heat Sensor

LE-ATJ-EA

The Fixed Temperature/Rate-of-Rise sensors provide accurate temperature measurement data to the fire alarm control panel. These sensors are well-suited for environments where dust, cooking fumes, or other factors make the use of smoke sensors impractical.

Multi-Criteria Sensor

LE-ACC-V

The Smoke & Heat Multi-Criteria Sensor is particularly suited for detecting smoke produced by a wide range of combustibles found in various applications. Temperature monitoring is achieved by a thermistor placed for optimum sensitivity.

This product model number may change when UL 7th edition product is ready.

Multi-Criteria Sensor

LE-ACD-V

The CO, COHb, Smoke, & Heat Multi-Criteria Sensor is particularly suited for detecting smoke produced by a wide range of combustibles found in various applications it is also suited for detecting deadly levels of CO.

This product model number may change when UL 7th edition product is ready.

6" Analog Sounder Base

LE-ASB
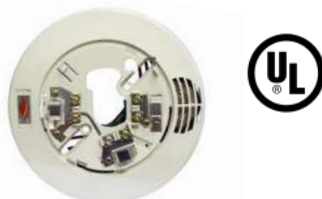
LE-ASB is designed to use with Analog Sensors. Each base is connected to a DCP SLC, it provides an audible alarm in the immediate vicinity. Configurable and programmable.

This product model number may change when UL 7th edition product is ready.

Analog Sensor Bases

LE-YBN-NSA-4 / LE-HSB-NSA-6

The sensor mounting base allows complete compatibility to use with analog sensors, this common mounting bases are electronics free. It contains a screw terminals for wiring connections & anti-tamper head locking system.

This product model number may change when UL 7th edition product is ready.

Addressable Modules

Description	Model No.
Fast Response Contact Module	LE-DCP-FRCMA/I
Dual Input Monitor Module	LE-DCP-DIMM
Short Circuit Isolator	LE-DCP-SCI
Supervised Output Module	LE-DCP-SOM-A/I
Dual Relay Output Module	LE-DCP-R2ML/-I & LE-DCP-R2MH/-I
Conventional Zone Module	LE-DCP-CZM

Addressable Manual Pull Stations

LE-DCP-AMS

LIFECO series of addressable manual pull stations that provide a fast and practical means of manually initiating a fire alarm signal. Both single action and dual action manual pull stations are available.

Compatible Devices for Matrix Series

WP Manual Pull Station

LE-HPS-SAH-WP

The LIFECO LE-HPS-SAH-WP Weatherproof Manual Pull Station is a conventional initiating device suitable for applications requiring outdoor mounting. It is appropriate for applications where the manual pull station may be subject to wet conditions.
- Device can be compatible using addressable interface module.

Photoelectric Smoke Detector

LE-SOE-24V

The LE-SOE-24V is suited for all open areas where smoke detection is required. The new multi-spectrum smoke categorization technology detects smoldering and flaming fires, including polyurethane fuels, while reducing nuisance cooking alarms.
- Device can be compatible using addressable (LE-DCP-CZM) interface module.

Smoke/Heat Detector

LE-SOE-24H

Combination smoke and heat detector are well-suited for environments where there is smoldering and flaming fires, including polyurethane fuels, while reducing nuisance cooking alarms.
- Device can be compatible using addressable (LE-DCP-CZM) interface module.

Fixed Temp/Rate of Rise Heat Detector
LE-DCD-135/190

Choice of fixed temperature/rate of rise 135F° or 190F° heat detector. It is suited to detect presence of slow or fast rising temperature due to burning combustibles, if heat rises greater than 12°/minute detector will alarm.
- Device can be compatible using addressable (LE-DCP-CZM) interface module.

Fixed Temperature Heat Detector
LE-DFE-135/190

Choice of fixed temperature 135F° or 190F° heat detector. It is suited for installation where high heat output fires are expected or in areas where ambient conditions would not allow use of other detection methods.
- Use LE-HSC-220 compatible detector base.
- Device can be compatible using addressable (LE-DCP-CZM) interface module.

Conventional Sounder

LF-1010RSX

MADE IN UK

Suitable for conventional sounder circuits,notification alarm circuits and 2-Wire alarm systems. Can be flush mounted using standard electrical single gang back-box and surface mounted with the default backbox.

Conventional Sounder VID's

LF-1110RSR

MADE IN UK

Used as an ancillary visual alarm in fire systems; It is suitable for conventional and 2-wire fire systems as well for general alarm and signalling systems It is designed to fit any recessed single gang box, giving a flush finish or surface mounted with the default back box.

Conventional Fire Alarm Bell

LFB16, LFB18 & LFB110

Alarm bell is a low power consumption & a microprocessor base design with high dBA sound output, available in 6", 8" & 10" housing. Quickly and easily to installed. (optional WP back-box for outdoor application)

Conventional Fire Alarm System White Eagle Series

White Eagle Control Panel

Eagle 4/8/12/16

The Panels are solid state circuiting and is designed perfect solution to any conventional system requirement for industrial and commercial application. With its architecture providing 1 to 16 fixed zones, the system can installed ranging from small building to large constructions. Supports up to 32 detectors per zone & unlimited number of call points.

Conventional Fire Alarm Control Panel 1-2 Zone

LF-CCP50/2

The Fire Control Panel LF-CCP50/2 is designed to operate with conventional automatic fire detectors and manual call points. The panel has outputs provided for external executive devices.

Conventional Heat Detector Fixed Temperature Type

LF-F50

The fire detector is designed for early warning of a fire condition when the fixed temperature threshold in the protected premises is reached.

Detector is fitted on a LIFECO 50 series base, featuring two 360° LEDs for status updates.

Conventional Smoke Detector Optical Type

LF-S50

The fire detector warns of early fire conditions with a preset smoke threshold. It utilizes scattered light in the optic chamber and self-compensates for contamination.

Detector is fitted on a LIFECO 50 series base, featuring two 360° LEDs for status updates.

Conventional Heat Detector Rate of Rise Temperature Type

LF-F50R

LF-F50R fire detector is designed for early warning of a fire condition upon reaching a rate of rise of the temperature in the protected premises is reached.

Detector is fitted on a LIFECO 50 series base, featuring two 360° LEDs for status updates.

Conventional Combined Detector Fixed Temperature & Smoke Type

LF-FS50

LF-FS50 fire detector warns of fire through fixed smoke concentration or temperature thresholds, using scattered light and thermistor resistance alteration.

Detector is fitted on a LIFECO 50 series base, featuring two 360° LEDs for status updates.

Manual Call point

LF-MCP100

The Manual Call Point is designed to release a signal for a fire condition to the Fire Control Panel upon manual activation by pressing the place signed with arrows.

The light indication for activating the manual call point is provided by a red LED. There is a possibility for testing by a special key

Conventional Sounder VID's

LF-SX100

The Fire alarm sounder is applicable for audible and visual indicator of events registered in Fire Alarm Systems. And has been tested and validated to EN54-3.

The fire alarm sounder has a main body and a cover, for easy installation. The fire alarm sounder is powered from the Fire Control Panel with a two-wire cable.

Conventional Fire Alarm System

Remote LED Indicator

LFR100

The LFR-100 LED remote indicator is an attractive device used in installations where a detector going to alarm is likely to occur behind a locked door, inaccessible rooms, or in a ceiling void to provide indication of the activation of a fire detector.

Conventional Reflective Beam Detector

LF-X5130

The LF-X5130 Conventional Reflective Beam Detector has built in Laser beam pointing and Digital guide display for real user friendly alignment method. The Laser beam pointing accurately point the exact location where to mount mirror and with additional digital guide display allows to monitor and guide on the actual light intensity between the mirror and detector which cannot be seen by our naked eye making it more easy and convenient in alignment commissioning.

Stand-alone Smoke Detector

LF-SD-41

Stand-alone smoke detector. Photoelectric technology more sensitive at detecting large particle fires. 9vdc battery operation, include piezoelectric horn 85dB@10 feet, single button test/silence.

Operating voltage DC9V Battery or AC110-220V.

Stand-alone Heat Detector

LF-HD-42

The heat part is made up of an externally mounted thermistor with a specially designed cover that protects the thermistor while allowing maximum air flow. The thermistor reads the temperature from the air it takes in and transmits a signal representing the temperature to the MCU. Temperature. Trip Point 57°C(135°F)±3°C

Operating voltage DC9V Battery or AC110-220V.

Stand-alone Gas Detector

GLF-GDW

LIFECO introduce GLF-GDW High Performance Gas Detector used to detect Liquified Petroleum Gas (LPG). GLF-GDW finds applications in domestic gas safety, commercial kitchens, schools, colleges and many more.

Features:
· Front mounted detector has unique splash guard and dust filter
· IP Rated seals fitted between the front and rear housing
· Can be surface mounted using external mounting feet Possible to first fit during building work
· Sensor housing is sealed from the electronics housing blocking flammable gas
· Standard 2 Gang Fixing Allowing Flush Mounting Using Standard Patress During Building
· 20mm Cable Entry Knockouts Centred to Allow Easy Drilling For Smaller Entry Holes
· Detector have a 'link' function. Once linked if one GLF-GDW into alarm then all linked units go into alarm

Extinguishant Releasing System Hawk Series

Hawk Extinguishant Releasing Panel

LF1810-12 & LF1810-13

The LIFECO HAWK extinguishant releasing panel provides outstanding value and performance for all small to medium fixed firefighting installation. With three zones as standard, extinguishant release can be configured to activate from any combination of detection zone inputs. HAWK panel are robust and easy to install having all electronics mounted on a single, easily removable steel plate.

Ancillary PCB

LF1822-10

The ancillary board provides volt free normally open contacts allowing of sub-system and plant remotely from main panel over two wire data bus. Up to 7 per system mixture of ancillary PCB & Status Indicator connected to the serial bus.

Conventional Heat Detector Fixed Temperature Type

LF-F50

The fire detector is designed for early warning of a fire condition when the fixed temperature threshold in the protected premises is reached.

Detector is fitted on a LIFECO 50 series base, featuring two 360° LEDs for status updates.

Status Indicator

LF1821-XX

Status indicator provide detailed status information of HAWK releasing panel. It provide LED indication of manual, manual & automatic, abort operated, disablement, imminent and releasing condition.Countdown timer shows remaining time until release.

Conventional Smoke Detector Optical Type

LF-S50

The fire detector warns of early fire conditions witha preset smoke threshold It utilizes scattered light in the optic chamber and self-compensates for contamination.

Detector is fitted on a LIFECO 50 series base, featuring two 360° LEDs for status updates.

Abort Switch

LF1823-10

Abort switch is capable of aborting the releasing operation. Any number of abort may be connected to the circuit, the last switch must have the EOL to provide supervision. Include back box for surface mounted.

Conventional Heat Detector Rate of Rise Temperature Type

LF-F50R

LF-F50R fire detector is designed for early warning of a fire condition upon reaching a rate of rise of the temperature in the protected premises is reached.

Detector is fitted on a LIFECO 50 series base, featuring two 360° LEDs for status updates.

Manual Disablement Switch

LF1832-10

Extinguishant disablement switch will mechanically disable both side of solenoid circuit during activation. Disablement illuminated at panel when active. Key removable in either position.

Conventional Combined Detector Fixed Temperature & Smoke Type

LF-FS50

LF-FS50 fire detector warns of fire through fixed smoke concentration or temperature thresholds, using scattered light and thermistor resistance alteration.

Detector is fitted on a LIFECO 50 series base, featuring two 360° LEDs for status updates.

Extinguishant Releasing System

Conventional Sounder VID's

LF-1110RSR

Used as an ancillary visual alarm in fire systems; It is suitable for conventional and 2-wire fire systems as well for general alarm and signalling systems It is designed to fit any recessed single gang box, giving a flush finish or surface mounted with the default back box.

Manual Call point

LF-MCP100

The Manual Call Point is designed to release a signal for a fire condition to the Fire Control Panel upon manual activation by pressing the place signed with arrows.

The light indication for activating the manual call point is provided by a red LED. There is a possibility for testing by a special key.

Conventional Fire Alarm Bell

LFB16, LFB18 & LFB110

Alarm bell is a low power consumption & a microprocessor base design with high dBA sound output, available in 6", 8" & 10" housing. Quickly and easily to installed. (optional WP back-box for outdoor application).

Emergency & Exit Lights

Description	Emergency Light	Emergency/Exit Light	Emergency Light	Twin-heads Emergency Lights
Model	LF-LED-500C	LF-LED-500F	LF-LED-600A	LF-LED-600B
Operation Mode	Maintained/Non maintained	Maintained/Non maintained	Non maintained	Non maintained
Input Voltage	AC120V-277V (50Hz/60Hz)	AC120V-277V (50Hz/60Hz)	AC120 –347 V (50Hz/60Hz)	AC120 –347 V (50Hz/60Hz)
Input Power	5W (Maintained) 1.5 (Non-maintained)	5W (Maintained) 1.5 (Non-maintained)	2.5W	2.5W
Battery	Ni-Cd SC3.6V 1.5Ah	Ni-Cd SC3.6V 1.5Ah	SC 3.6V/1800mAH (Ni-Cd)	SC 3.6V/1800mAH (Ni-Cd)
Lamp	27pcs SMD 2835/0.2W	27pcs SMD 2835/0.2W	24pcs SMD 2835	24pcs SMD 2835
Emergency Lumen	> 130LM	> 150LM	> 180LM	> 180LM
Charge Time	24 Hours	24 Hours	24 Hours	24 Hours
Emergency Duration	3 Hours	3 Hours	3 Hours	1.5 Hours
Degree of Protection	IP65	IP65	IP20	IP20
Operating Temperature	0°C – 40°C	0°C – 40°C	0°C – 40°C	0°C – 40°C
Housing/Cover	PC	PC	Flame Retardant ABS	Flame Retardant ABS
Dimension	352×110×68MM	352×110×68MM	L267×W59×H90MM	L365×W109×H85MM
Mounting type	Wall/Ceiling	Wall/Ceiling	Wall mounting type	Wall mounting type

Fire Alarm Cables

Fire Resistance Cable
LSZH Sheath, EN 50200 PH120

Fire Detection and Alarm
System Cables FPLR Type
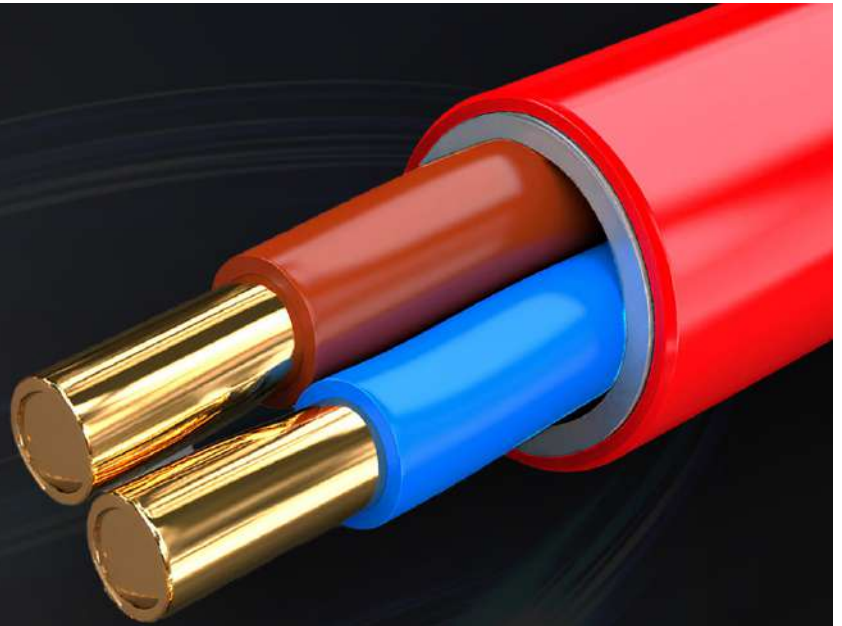
Fire Resistance Cable
LSZH Sheath, EN 50200 PH120

LIFECO fire-resistant cables are designed for use in fire detection and alarm systems, emergency voice communication, and emergency lighting circuits. They are UL Listed and comply with EN 50200, achieving PH120 classification, ensuring circuit integrity and functionality during fire conditions.

- Comply with EN 50200 Standard
- Achieving PH120 Classification
- Conductor Surface: Solid
- Operation Temperature: -20OC to +90OC
- Sizes: 1 - 1.5 - 2.5 mm²

Fire Detection and Alarm
System Cables FPLR Type

LIFECO fire cables are specifically designed for critical applications including fire detection and fire alarm systems for buildings, voice alarm systems and emergency voice communication, emergency and escape lighting, and control circuits for fire safety and firefighting systems. These cables are UL Listed and comply with UL 1424, ensuring reliable performance and circuit integrity during emergency situations.

- Comply with UL 1424 Standard
- Conductor Surface: Solid
- Operation Temperature: -20°C to +75°C / +105°C
- Sizes: 1 - 1.5 - 2.5 mm²

Detector Tester Kit

LIFECO Detector Tester generates artificial smoke and heat to simulate a fire and tests the responsiveness of a smoke and heat detectors and to ensure that the smoke and heat detectors triggers an alarm upon detecting a fire.

Standard
Inspection Pole

10m Pole

6m Pole

- Testable detectors:
- (Heat) Rate of Rise heat and fixed temperature types
- (Smoke) Ionization and photoelectric smoke types.
- Charging Time: Full charge consumes approximately 5 hours.
- Running Time: Up to 5 hours (Duration may vary due to operating conditions and battery has limited recharge cycles and may eventually need to be replaced by Detector Tester service provider).
- Testability: Approximately 200 heat detectors and 300 smoke detectors.
- Weight: 2.3kg (5 lbs).
- Length of Standard Inspection Pole (Min) : 1.3m (4.2 ft).
- Length of Standard Inspection Pole (Max) : 2.5m (8.2 ft).
   * If longer pole is needed, 6m (20ft) and 10m (32ft) poles are available for additional price.
- Input : AC 240V 50-60Hz 2A
- Output : DC12V 2A

Accessories

Pole Bag

Smoke Oil

Remote Control

Charger

Fire Sprinkler System

For nearly a century and a half, automatic sprinklers have been the most important single system for automatic control of hostile fires in buildings. Many desirable aesthetic and functional features of buildings that might offer concern for fire safety because of the fire growth hazard can be protected by the installation of a properly designed sprinkler system. Among the advantages of automatic sprinklers is the fact that they operate directly over a fire and are not affected by smoke, toxic gases, and reduced visibility.

LIFECO has a vast range of sprinkler head available; Pendent, Upright, Horizontal sidewall and Concealed type sprinklers with different K-factor to use in any type of application. In addition, Our range of product holds certificates by UL (Underwriters laboratories) and has FM (Factory Mutual) approval, in products where it is applicable.

Sprinkler Heads

Pendent & Upright Sprinkler

LF611, LF621, LF610 & LF620

· Glass bulb
· K-factor 5.6
· Quick & Standard Response
· Available Temp Rating :
  135°F/ 155°F/ 175°F/ 200°F / 286°F
  (57°C/ 68°C / 79°C/ 93°C/ 141°C)
· 1/2" NPT Thread Size

Horizontal Sidewall Sprinkler

LF640 & LF641

· Glass bulb
· K-factor 5.6
· Quick & Standard Response
· Available Temp Rating :
  135°F/ 155°F/ 175°F/ 200°F / 286°F
  (57°C / 68°C / 79°C/ 93°C/ 141°C)
· 1/2" NPT Thread Size

Pendent & Upright Sprinkler

LF411, LF421, LF410 & LF420

· Glass bulb
· K-factor 8
· Quick & Standard Response
· Available Temp Rating :
  135°F / 155°F / 175°F / 200°F / 286°F
  (57°C / 68°C / 79°C / 93°C / 141°C)
· 3/4" NPT Thread Size
· 286°F/141°C Available in Quick Response

Upright Automatic Sprinkler

LF510

· Glass bulb
· K-factor 11.2
· Standard Response
· Available Temp Rating :
  155°F/ 200° (68°C / 93°C)
· 3/4" NPT Thread Size

Concealed Pendent Sprinkler

LF830 & LF831

· Glass bulb
· Standard Spray Pattern
· K-factor 5.6
· Quick & Standard Response
· Available Sprinkler Temp Rating :
  135°F/ 155°F/ 175°F/ 200°F
  (57°C/ 68°C / 79°C/ 93°C)
· Available Cover Temp Rating :
  135°F/ 165°F - (57°C/ 73°C)
· Cover plate available in
  chrome & white (RAL 9003)
· 1/2" NPT Thread Size

Escutcheon Plate

LF-ESC/1/2/3

One and two piece Escutcheon plate is designed to enhance the appearance of the pendent and the sidewall sprinklers when installed below the ceiling or on the wall. Escutcheon Plate provided a decorative closure of the annular space between the sprinkler and the wall.
** Available in White Colour

Fire Sprinkler System

Open Nozzles

High & Medium Velocity Nozzles

HV-AS & HV-BS   A, AS & BS

· For high and medium velocity water application for protection of storage tank and electric transformer.
· Size 3/4" BSPT or NPT for High Velocity Nozzles
· Size 1/2" BSPT or NPT for Medium Velocity Nozzles
· Available K Factor: 18, 22, 30 , 35, 41, 51, 64, 79, 91, 102
· Available Spray angle: 65°, 80°, 90°, 100°, 110°, 120° &140°

Test & Drain Valve
LF-TND

· Female threaded NPT inlet and outlet
· Body material - BRASS ASTM C37700
· Working pressure 300PSI
· 1", 1.25", 1.5" & 2" Size Connection

Pressure Gauge

LF-PG

· Designed for fire protection systems
· Suitable for air and water media
· Dual scales (300psi/21bar)
· Internal pointer over-travel stop
· ASME B40.100 compliant
· 1/4" Threaded connection
· 3.5" Dial

Sprinkler Guard

LF-SG12

LIFECO Sprinkler Guard are hard-wire cages designed to encase the sprinklers and protect them from mechanical damage.
· Available Sizes - 1/2" and 3/4" Sprinkler

Flexible Sprinkler Hose

Braided & Unbraided

LPB-B, LPB-D, LPN-A & LPN-C

Can be installed quickly without large and expensive tools.

Available product length: 700, 1000, 1200, 1500, 1800mm

Air Release Valve

LF-ARV

· Size: 1"

This valve is used as a backup just in case the water pressure or flow is not as required due to certain situations. Tested under the pressure of 350 PSI.

Sprinkler Wrench

LF-SW-01 & LF-SW-02

Used for installing LIFECO sprinklers; Upright, Horizontal Sidewall, Pendent, Clean-room type and Flush type sprinkler head.

LF-SW-02 is used for LF820 & LF821 - Concealed Sprinkler

Sprinkler Cabinet

LF-SC-01

Available in different sizes which allows storage of 6, 12, 24 & 36 sprinklers along with appropriate size wrench and tools.

Standpipe System

Angle Hose Valve

LF-AH-15/20/25/30

· Working Pressure 300 PSI
Angle hose valve manufactured in accordance with UL668 Hose valve fire protection service is used as fire department outlet or with a hose rack assembly. Available size 1 1/2 "& 2 1/2"

*Cap with chain is optional
*Chrome finish available

Pressure Restricting Angle Hose Valve

LF-RV-AH15/20/25/30

Used with a fire hose reel or rack assemblies or as a fire department outlet connection. Water pressure is controlled up to 175 PSI by adjustable flow restriction. Locking pin mechanism restricts unnecessary frill opening of valve. Available size 1 1/2 "& 2 1/2"

*Cap with chain is optional
*Chrome finish available

Fire Department Connection

LF-FDCA & LF-FDCS

We have two models, one is a straight type and a 90° type which casted from solid brass alloy to extend its service life. Size: 2.5" x 2.5"x 4", Rated to 300 PSI

*Available with Wall Plate, Cap and Chain

Hose Reels

LF-MA/AA/MP/AP/MF/AF

· Automatic or manual operation
· Available in Swinging Arm LF-MA/AA, Swinging Pipe LF-MP/AP, Fixed Type LF-MF/AF
· Sizes Available : 3/4" & 1" with standard hose length of 30m

*Spring reinforced inlet pipe is optional
*Built in Pressure Gauge optional

Synthetic Fire Hose

LF4015SJ/DJ & LF4025SJ/DJ

· Available sizes 1 ½" & 2 ½"
· Single Jacket - 200PSI
· Double Jacket - 300PSI
· NST/Morris Quick coupling end connection
· Available Color: Red, White & Yellow,
· Hose Length: 15m and 30m

Hose Rack

LFD-HRA-1515L/2515H

· Semi-automatic Hose Rack for use with stand pipe systems of 2½" w/ 1½" or 1½" w/ 1½" lined fire hose of 100ft max.
· Max Service Pressure: 150 or 175 PSI

Adjustable Type Hose Nozzle

LF-SHN40/LF-SHN65

· Available sizes: 1 ½ and 2 ½ inch.
· Adjustable fog, straight stream and shut off
· Finish: Brass
· Thread: NST (quick coupling adaptor)
· Nozzle pressure rating: 100 PSI
· Service Range: 20 ~100 PSI

Pressure Reducing Valve

LF-PRV-1-BSP& LF-PRV-1-NPT

Mainly used to reduce the pressure at the inlet of the hose reel to the nominal working pressure.Material: Brass (Bronze available on request) Working Pressure: Inlet pressure up to 20 bar and outlet pressure between 1 to 5 bar

Lock Shield Valve

LF-LSV

· Inlet: 1" F BSP
· Outlet: 1" F BSP
· Pressure rating: PN 20

The lock shield valves are installed usually in the fire hose reel and the valve can be opened only by the key.

Fire Cabinets

Single Door Hose Rack Enclosure

LFD-HRC-150

Single Door Hydrant Enclosure

LHC750 & LHC800

Single Door Foam Enclosure

LF-9000

Single Door Rubber Hose Enclosure

LF300

Rubber Hose & Extinguisher Double Door Enclosure

LF600

Vertical Double Door Enclosure

LF900

Single Door Synthetic Hose Enclosure

LF4000 & LF5000

Horizontal Double Door Synthetic Hose Enclosure

LF4200 & LF5200

Single Door Hose Rack

LF150, LF200E & LF200EV

LIFECO cabinets are made from Galvanized steel with the sheet thickness of 1.0 to 2.0 mm or stainless steel with the sheet thickness of 1.0 to 1.5 mm & also available with Brush or Mirror finish (304 & 316 Grade). The lock mechanism is either lock type, key type or turn handle.

All Cabinets models are available in Recessed, Semi-Recessed and Surface Mounted type.

*All cabinets can be customise upon clients requirement.

Fire Valves

LIFECO has a vast selection of Fire protection valves that includes; Alarm Check Valve, Deluge Valve, Butterfly valve, Gate valve (NRS and OS&Y), Check valve, in addition to that the range also have Indicator posts and Strainers.

LIFECO Fire Fighting Valves System are built to high-quality standard and holds approval by UL (Underwriters laboratories) and have FM (Factory Mutual) approval, where applicable.

Gate Valves

OS&Y Gate Valves

Model No.: 3299-300, 3199-250, 3199-200

LIFECO's OS&Y (Outside Screw and Yoke) fire gate valve is a specific type of valve used in fire protection systems to control the flow of water.

The key feature of a LIFECO OS&Y fire gate valve is its ability to be quickly and visibly operated during emergency situations, such as fires. Firefighters and other personnel can easily determine whether the valve is open or closed, which is crucial for controlling the flow of water or fire-retardant materials in fire protection systems. This design enhances safety and ensures the valve's reliability in critical situations.

· Complies with AWWA C515 Standard
· NPT plug on body
· Flanges to ANSI B16. 42 Class150
· -10°C to120°C Working temperature
· Ductile Iron Body
· Sizes:
  2" FM Approved- 300 PSI
  2.5"- 12" UL Listed & FM Approved- 300 PSI
  14", 16", 18" UL Listed- 250 PSI
  20" & 24" UL Listed- 200 PSI

NRS Gate Valves

Model No.: 3288-300, 3188-250, 3188-200

While OS&Y (Outside Screw and Yoke) valves are commonly used in fire protection systems for their visibility, NRS gate valves can also be used in these systems where space constraints or specific design preferences necessitate their use.

NRS gate valves are chosen for their space-saving design, durability, and ability to astem's external visibility (as in OS&Y valves) is not a primary concern.

· Complies with AWWA C515 Standard
· High quality graphite stem seal
· NPT plug on body
· Flanges to ANSI B16. 42 Class150
· -10°C to 120°C Working temperature
· Sizes:
  2" FM Approved- 300 PSI
  2.5"- 12" UL Listed & FM Approved- 300 PSI
  14", 16", 18" UL Listed- 250 PSI
  20" & 24" UL Listed- 200 PSI

Valves Accessories

T-Key

T-Key for use with non-rising stem (NRS) gate valves

Handwheel

For use with NRS gate Valve

Butterfly Valves

Wafer Type
LF-BFVW-A/B

· Complies with UL 1091 & FM 1112 Standards
· Comply with Flanges to ANSI B16. 42 Class150
· 300 PSI Working pressure
· 0°C to 80°C Working temperature
· Ductile Iron Body
· Sizes: 2", 2.5", 3", 4", 5", 6", 8", 10" & 12"

Grooved Type
LF-BFVG-A/B

· Complies with UL 1091 & FM 1112 Standards
· Comply with Grooved to AWWA C606
· 300 PSI Working pressure
· 0°C to 80°C Working temperature
· Ductile Iron Body
· Sizes: 2", 2.5", 3", 4", 5", 6", 8", 10" & 12"

Check Valves

Swing Type - Flanged Ends
5201-350-FLF

· Complies with AWWA C508 standard,
  Full waterway design
· 350 PSI Working pressure
· Flanged to ASME B16.1 Class 125,
  EN 1092-2 PN 16
· Sizes: 2", 2.5", 3", 4", 5", 6", 8", 10"& 12"

Swing Type - Grooved Ends
5905-300-GLF

· Ductile iron disc EPDM encapsulated
· 300 PSI Working pressure
· Sizes: 2.5", 3", 4", 5", 6", 8",
  10" & 12" - UL Listed
· Sizes: 2", 2.5", 3", 4", 5", 6", 8",
  10" & 12" - FM Approved

Wafer Check Valve
5211-175-FLF

· Soft seated for perfect
  tightness even
  at low differential pressure
· Flange to ANSI B16.1
  Class 125
· 175 PSI Working pressure
· Sizes: 4", 6", 8", 10" & 12"

Strainers

Y-Strainer - Flanged Ends
6201-175-FLF

· NPT or BSPT blowoff outlet on cover.
  Blowoff outlets are finished with plugs
· 175PSI Working pressure
· -10°C to 120°C Working temperature
· Flanges to ANSI B16. 1 Class125
  (other flange type available upon request)
· Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"

Y-Strainer - Grooved Ends
6201-175-GLF

· NPT or BSPT blowoff outlet on cover.
  Blowoff outlets are finished with plugs
· 175PSI Working pressure
· -10°C to 120°C Working temperature
· Groove dimension comply with Metric or
  AWWA C606 standard.
· Sizes: 2.5", 3", 4", 5", 6", 8", 10" & 12"

Strainer - Basket Type
6301-200-FLF

· Screens are perforated 304 stainless steel
  with spot welded seam
· -10°C to 82°C Working temperature
· Flanges to ANSI B16. 1 Class125
· 200 PSI Working Pressure
· Sizes: 3", 4", 5", 6", 8", 10" & 12"

Indicator Post & Breeching Inlet

Vertical Type Indicator Post

LF-PST-V

· Comply with UL 789, FM 1110, &
  requirements of NFPA 24 Standards
· Indicates the Valve OPEN or SHUT Position
· Target Nut to allow 13 to 45 Turns
· Protected Windows
· Used with 4"-14" NRS Valves

Wall Type Indicator Post

LF-PST-W

· Comply with UL 789, FM 1110, &
  requirements of NFPA 24
· Indicates the Valve OPEN or SHUT Position.
· Target Nut to allow 13 to 45 Turns.
· Protected Windows.

Breeching inlet

LWR 095 & LWR 115

2-Way and 4-Way Breeching Inlet body is
made of spheroidal graphite iron according
to BS 2789 or Cast Iron to BS 1452. The
outlet flange is according to BS 4504 and
inlet is according to BS Instantaneous Male.

Zone Control Valves

LF-ZCV

Designed to operate utilizing electrical service for actuation. supply
enters the building. In the simplest system a single shut-off valve may
be located at the point where the water supply enters the building.

*UL & FM Accessories, where applicable.

Pressure Reducing Valve

LF-PRC

· Reducing a higher upstream pressure into a lower,
  constant downstream pressure
· Adjustment Range of Outlet Pressure: 65 to 165 PSI·
  Can be maintained without removal from the pipe
  line.
· Valve Sizes 2", 2.5", 3", 4", 5", 6", 8", 10" and 12"
· Valve body: Ductile Iron
· Working Pressure: 300 PSI

Fire Hydrants

Fire hydrants are connection point by which firefighters can tap into a supply of water when battling fire.

Dry Barrel Hydrant

LF-FM1510A / LF-FM1510B

· Standard pumper 4.5" and hose nozzle 2.5"
  thread - 4" Pumper Connection is optional
· Multiple bury lengths available
· 250 PSI Working pressure
· -10°C to 82°C Working temperature
· Internally and externally liquid epoxy painted
  corrosion protection
· Hydrant Size: 6"

Wet Barrel Hydrant

LF-WBHM-100/115 &
LF-WBHX-100/115

· Manufactured in accordance with AWWA
  C503 standard
· (1) 4.5" Pumper nozzle, (4"Pumper
  Connection is optional) (2) 2.5" Hose nozzles,
  (3) 4" Monitor Flange - Option
· 250 PSI Working Pressure
· -10°C to 82°C working temperature
· Hydrant Size: 6"

Wet Barrel Hydrant

LF–WH-100 & LF–WH-150

· The 4"& 6" shell hydrant is made according
  to BS750 Standard
· Two numbers of 2½" hydrant landing valves
  w/ cap and chain are provided with hydrants.
· Other presssure rating are available up
  on request.
· Ductile hydrants available upon request .

Alarm Check Valve

Model No: LF-ACV-FF/GG/GF/FG

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

· Anti-corrosive Trim
· Ductile Iron Body
· Quick removal and easy service for rubber-faced clapper
· Flange comply to ANSI B16. 42 Class150, Grooved comply to AWWA C606
· Max Working Pressure : 300 PSI
· Sizes - 2", 2.5", 3", 4", 5", 6", 8", 10" & 12"
· Stainless Steel Wet Trim

Double Interlock Preaction Valve with Air Compressor

Model No: LF-DIPA

The Double Interlock Preaction System with Electric/Electric Release is generally used to protect water sensitive areas such as computer rooms, storage areas, refrigerated areas etc., to avoid water damage due to inadvertent flooding of the sprinkler system piping.

· Size: 2", 3", 4", 6" & 8"
· Solanoid Valve: 24V DC, UL Listed
· Maximum Working Pressure: 17.5 Bar (250 PSI)
· Valve End Connection: Flanged or Grooved

*Available with Air Compressor for 50Hz / 60Hz
*Pre-Action Cabinet Available
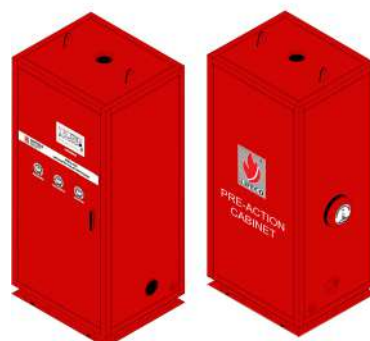
Deluge Valve

The deluge valve intended for installation in a piping system to supply water automatically to deluge and preaction sprinkler systems for fire protection services. LIFECO Deluge Valves are covered by these requirements are intended for installation and use in accordance with NFPA11, NFPA 13, NFPA 14, NFPA 15 and NFPA 16.

· Model A
· Available nominal size: 2", 3", 4", 6" & 8"
· 12 Bar (175 PSI) Pressure
· 90° pattern inlet to outlet vertical mounting
· Specialized Smoke Chamber Design
· Galvanized Steel with Brass Valves Trim
· 25 bar (350 PSI) Hydrostatic test pressure

Switches

Supervisory Switch

LF-SSOSY-1/2/3 &
LF-SIP-1/2/3

· Contact rating: 10A @
  125/250VAC,2.5A@30VDC
· IP 66
· One or Two sets of SPDT
· Case type - Metal

Designed to monitor the open position of an OS&Y type gate valve & Post Indicator.

Pressure Switch

LF-WPS

· Contact rating: 15A @
  125/250VAC,2.5A@30VDC
· Working Pressure: 250 PSI
· IP 66
· Two sets of SPDT
· Case type: Metal

Detects the waterflow in automatic fire sprinkler systems of particular designs.

Waterflow Switch

LF-WFS-450

· Flow sensitivity range:
  - No-Alarm at flow 15L/Min. or less.
  - Alarm flow more than15L/Min. or less than
    37.5L/Min. (75L/Min for FM Approval)
· Contact rating: 8A@125/250VAC,
  3A@24VDC, 2.5A@30VDC
· Working Pressure: 450 PSI
· Designed for both indoor and outdoor use.
· Case type: Metal
· Sizes: 2", 2.5",3", 4", 5",6" & 8"

Foam System Equipment & Monitors

Bladder Tank Proportioning System Pre-piped

STORAGE CAPACITY
For Vertical Tank:
140 litres to 7500 litres
For Horizontal Tank:
140 litres to
15000 litres

The Bladder Tank Foam Proportioning System utilises water pressure to inject foam concentrate into water supply and automatically proportions foam concentrate over wide range of flow and pressure, with very low pressure drop. This system does not require a foam concentrate supply pump.

Foam Nozzle - Air Aspirating Foam-Water Sprinkler

Models:
LF920
LF921
LF911

The Foam Nozzles (Models F1 & H) are open type Air Aspirating Foam-Water Sprinklers. Foam-Water Sprinklers are used in the deluge foam systems to protect the high-risk areas where foam is required to be applied through overhead nozzles and is to be followed with plain water in a standard sprinkler spray pattern.

Ratio Controller

Models:
LF-WSRCX
LF-WSRC
LF-FSRCX
LF-FSRC
LF-WBRCX
LF-WBRC
LF-FBRCX
LF-FBRC

Ratio Controller is used for proportioning foam concentrate into the water supply with a wide range of flow and pressure. The Ratio Controller is also used with Bladder Tank Proportioning System, Inline Balance Proportioning System and Skid Mounted Pump Balance Proportioning System.

Foam Chamber

Models:
LF-FCH1-C
LF-FCH2-C
LF-FCH3-C
LF-FCH4-C
LF-FCH5-C
LF-FCH1-S
LF-FCH2-S
LF-FCH3-S
LF-FCH4-S

Foam Chamber is used in one of the most common applications to protect vertical fixed roof (cone) liquid storage tanks, with or without internal floating roof with the low expansion foam system. The application of foam is on the basis that the risk comprises the total surface area of the fuel. The foam system design guidelines generally used are in accordance with NFPA-11 standard.

Rim Seal Foam Pourer

Models:
LF-RSP-C
LF-RSP-S

LIFECO Rim Seal Foam Pourer (RSP) includes a Foam Maker, windshield, and deflector, designed to deliver aspirated foam to the annular seal area of open-top floating roof tanks. It protects tank seals using a low expansion foam system, following NFPA 11 standards. RSP is classified as a Type II discharge outlet and is commonly used with Inline Foam Inductors, Balance Pressure Foam Proportioning systems, Bladder Tanks, or Foam tenders.

Foam Maker

Models:
LF-FM1-C
LF-FM2-C
LF-FM1-S
LF-FM2-S

Foam Makers are used to protect tank seals in vertical liquid storage tanks with internal floating roofs, applying low expansion foam to the area between the floating roof and tank shell. They follow NFPA 11 standards as Type II discharge outlets for delivering foam. Foam Makers are commonly used with Inline Foam Inductors, Balance Pressure Foam Proportioning systems, Bladder Tanks, and Foam tenders.

Foam Concentrate

LIFECO foam liquid concentrates include AFFF, AR-AFFF, FFFP, SFFF, AR-SFFF, FP

Foam Bladder Tank

LIFECO Foam Bladder Tank Proportioning System is designed to inject foam concentrate into a suitable water supply and automatically proportion foam concentrate over a wide range of flows and pressures.

Foam Master

LIFECO Foam Master are ideal for rapid deployment of foam to flammable liquid fires and chemical spills. It can be operated by one person.

Foam Monitor Trailer

The LIFECO trailer mounted monitor is designed to provide a mobile monitor capable of projecting fire fighting foam over a distance of 50 m* (180 ft). The unit can be supplied with a range of self inducting branchpipe nozzles(fog/jet optional) and aspirating foam cannons with flows from 500 to 2400 l/min*. Applications include protection of tanks and plant sited over a wide area and where it is necessary to lift and direct a jet of foam over obstacles or over long distances.

Motorised Water Foam Monitor

· Working Pressure: 8bar
· Flow: 50L
· Water flow range: ≥ 65m
· Flow tolerance: ± 8%
· Horizontal rotation angle: 0 ~ 360 °
· Pitch angle: - 90 °~+ ninety ° (customizable)
· Horizontal speed: 12 °/ S
· Pitch speed: 8 °/ S
· Working voltage: AC220 V
· Power consumption standby:
  15W, maximum 115W
· Maximum spray angle: 120 ° Material: gun head: aluminum alloy, gun body: stainless steel
· Weight: 17.5kg
· Interface size: DN80
· Installation mode: sitting installation

Fixed Oscillation Water Foam Monitor

· Flow rate: 20 / 30 / 40;
· Self swing angle: 30 ° 60 ° 90 ° 120 ° 140 ° 165 °;
· Minimum working pressure: 2.8bar, maximum working pressure: 14bar, self swing round 3 / min;
· Flange: DN 100;
· Material: gun head: Aluminum Alloy
· Shell: Stainless Steel.

Manual Water Foam Monitor

· Working Pressure: 8bar
· Flow: 32L
· Water flow range: ≥ 55m
· Foam range: greater than or equal to 48m
· Foaming ratio: ≥ 6
· 25% liquid separation time min (20 ° C)=≥2.5
· Horizontal rotation angle 0 ~ 360 °
· Pitch angle: - 90 °~+ ninety° (Customizable);
· Material: gun head: aluminum alloy, gun body: stainless steel
· Weight: 26kg;
· Interface size: DN 100
· Installation mode: Sitting Installation

Fire Fighting Pumps

Fire pump systems have has become an integral part of any all establishments as it is the first line of defense and safety against fire. LIFECO fire pump systems are built as per international standards and certified by UL and FM to provide optimum safety.

Every fire pump system produced goes through quality and testing process to ensure it meets the required level of compliance standard.

End Suction Fire Pump

Capacity: 50 GPM to 1000 GPM
Working Pressures: 60 to 234 PSI
Speed (rpm): 3500, 3600, 2900 & 3000
Frequency Rated: 60 | 50 cycle

· Compliance to NFPA 20 Design
  Requirements
· Wide Range of Flows and Pressures
· Available in Electric Motor and Diesel
  Engine driven configuration
· Hydrostatic and Certified Performance Tests
· Suitable for Commercial, Industrial and
  Buildings.

Splitcase Fire Pump
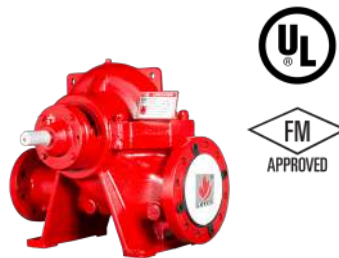
Capacity: 150 GPM to 3500 GPM
Working Pressures: 88 to 335 PSI
Speed (rpm): 1800, 1760, 3500 & 3600 |
1480, 1500, 2900 & 3000
Frequency Rated: 60 | 50 cycle

· Volute Type Thru-Bore Casing
· Frame-Mounted Design
· Small Footprint Ideal for Retrofit
· Dynamically Balanced
· Double Suction Impeller
· Heavy Duty With Heavy Wall Thickness
· 100% Hydrostatic & performance Tested

Vertical Turbine Fire Pump

Capacity: 200 GPM - 2000 GPM
Pressures: 40 - 355 psi
Speed (rpm): 1760, 3500 & 3600 |
1480, 1500, 2900 & 3000
Frequency Rated: 60 | 50 cycle

· Dynamically Balanced Impeller extends
  bearing life and ensures smoother
  operation.
· Designed and built as per UL 448 and
  NFPA20 for maximum reliability.
· Available in 50 Hz and 60 Hz.
· Open line shaft, water lubricated
  construction for ease of maintenance.
· Self-Venting Design eliminates vapor lock
  and the need for automatic air release
  valve.
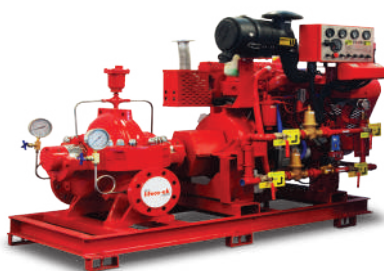
Fire Pump Diesel Driven Skid

· Well aligned and Coupled for Direct Operation.
· Skid Packages are Pre-Tested and Inspected thoroughly
  before release to customers.
· Engineered, coated, hot rolled mild steel to resist corrosion
  and abrasion.
· Heavy Fabricated C-Channel Structure constructed to provide
  proper alignment of Pump with Diesel Engine or Pump.
· Compact skid Design with Small Foot-Print for Retrofit.
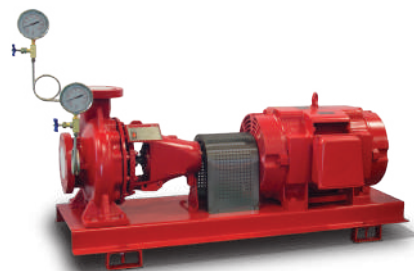
Fire Pump Electric Driven Skid

· Driven by UL Listed Electric Motor.
· Well aligned and Coupled for Direct Operation.
· Skid Packages are Pre-Tested and Inspected thoroughly
  before release to customers.
· Engineered, coated, hot rolled mild steel to resist corrosion
  and abrasion.
· Compact skid Design with Small Foot-Print for Retrofit.

Fire Fighting Pumps

Diesel Tanks

All LIFECO Steel Above ground Tanks for flammable and combustible Liquid are assembled and tested to all requirements.

Fire Pump Controller

All Fire Pump Controllers are factory assembled, wired, and comply to all requirements of the latest edition of NFPA-20 (Centrifugal Fire Pumps) and NFPA-70 (National Electrical Code).

Gmax Jockey Pump

Jockey pump is a small motor driven pumps used in conjunction with main fire pumps to compensate for minor leaks in the fire protection system.

Pressure Relief Valve

LF-PRF

Limits pipe line pressure by release excess pressure
· Inlet pressure adjustment range: 65-180psi
· Can be maintained without removal from the pipe line
· Rated Working Pressure: 300 PSI
· Adjustment Range of Set Pressure: 65 to 180 PSI
· Valve Sizes: 2", 2.5", 3", 4", 5", 6", 8", 10", 12"
· Body Ductile Iron

LIFECO Custom Engineered Fire Pumps

LIFECO Custom Engineered Fire Pumps are preassembled Packages with Complete Skid Mounted Unit that includes Horizontal End Suction/Split case Pumps that coupled with LIFECO HITEC motor driver & LIFECO MEGA FORCE engine driver that assembled with Jockey pumps & full discharge line control Gate valves & Check Valves along with flexible joints, Pressure Switches & Pressure Gauge fitted on Supported Header, where all pre-piped, wired, & fabricated in Common Compact Skid and Fully Automatic Operated through the Control Panel.

· Capacity: 50 GPM to 3500 GPM
· Working Pressures: 72.5 to 335 PSI
· Speed (rpm): 2900 & 3000
· Frequency Rated: 50 cycle

Clean Agent Fire Extinguishing System (SUPREME-X System)

HFC-227ea System

HFC-227ea (Heptafluoropropane) is a clean, colorless, and electrically non-conductive gaseous fire suppression agent that extinguishes fires through heat absorption. It is stored in cylinders at a working pressure of 360 PSI (25 Bar) and is available in a wide range of cylinder sizes: 17L, 28L, 52L, 106L, 147L, 180L, 240L, 270L, 369L, and 453L, providing design flexibility for various applications. HFC-227ea is ideal for occupied spaces and areas housing sensitive electronic equipment, as it leaves no residue and requires no cleanup after discharge.

FK-5-1-1-2 System

FK-5-1-12 is a next-generation clean agent that delivers rapid fire suppression with superior safety for personnel and minimal environmental impact. It is stored as a liquid and discharged as a gas at a working pressure of 360 PSI (25 Bar). The system is offered in cylinder sizes of 17L, 28L, 52L, 106L, 147L, 180L, 240L, 270L, 369L, and 453L, making it suitable for a wide range of installation needs. With zero ozone depletion potential and a global warming potential of less than 1, FK-5-1-12 is the most sustainable clean agent solution available.

Applications

- Data Center, Telecommunication, & IT Field
- Shopping Centers, Hotels & Restaurants
- Energy Sector & Auxiliary Industries
- Museums, Archives, Libraries & Schools
- Health Industry (Laboratories, Drug Stores, X-ray rooms)
- Manufacturing Sector
- Warehouses & Logistic Centers
- Oil, Gas & Hydrocarbon Industry

Features

NO RESIDUE
COST-EFFECTIVE
NON-TOXIC
RAPID ACTING

ECO-FRIENDLY
SHORT ATMOSPHERIC LIFE
ZERO OZONE DEPLETION
GLOBAL WARMING SAFE

High Pressure Water Mist System

Model: LF-WMS-XXX

The LIFECO high pressure water mist system is a highly effective fire suppression method that uses specialized nozzles to generate a fine mist. It combines the fire-quenching capabilities of gas systems (by preventing oxygen access to the fire source) with the cooling efficiency of conventional sprinkler setups, resulting in a notable reduction in water consumption. The System rated pressure is 130 Bar and it consists of a water tank, high pressure pump set, zone control valve unit, system pipeline, and water mist nozzles, and operates in conjunction with fire alarm systems.

Nozzle

Zone Selection Valve

PRODUCT NAME	LIFECO MODELS
Water Mist System	LF-WMS-112
	LF-WMS-224
	LF-WMS-336
	LF-WMS-448
	LF-WMS-560
	LF-WMS-672
	LF-WMS-784
	LF-WMS-896
	LF-WMS-1008
Zone Selection Valve	LF-SVA-15
	LF-SVA-20
	LF-SVA-25
	LF-SVA-32
	LF-SVA-40
	LF-SVA-50
	LF-SVB-15
	LF-SVB-20
	LF-SVB-25
	LF-SVB-32
	LF-SVB-40
	LF-SVB-50
	LF-SVB-65
Nozzle	LF-WMN-03
	LF-WMN-05
	LF-WMN-07
	LF-WMN-09
	LF-WMN-10
	LF-WMN-12
	LF-WMN-15
	LF-WMN-17
	LF-WMN-20
	LF-WMN-25

Fire Extinguishers

LIFECO's Fire extinguishers are best in class and intended to be used to extinguish or control small fires, often in emergency situations. Not all fires are the same. Different fuels create different fires and require different types of fire extinguishing agents that they are suitable for use on.

Portable Type

ABC Powder

ABC Powder works by firstly applying a coating to the fire which acts like a blanket suffocating the fire.

Wet Chemical

Wet Chemical uses a film forming base with additional secret chemicals and micro drop mist nozzle technology.

AFFF Foam

Aqueous Film Forming Foam (AFFF) works by applying a film forming foam to the fire which causes a blanket over the fire suffocating the fire.

Carbon Dioxide

Carbon Dioxide being an inert gas works by expelling the oxygen and thereby suffocating the fire and is suitable for common industries where small class B.

Water

Water extinguishes by cooling the fire and is the simple, conventional and ever-faithful extinguishing agent.

Automatic Type

Powder Automatic Type

PD-Matic is a newly developed product, where in the Dry Powder is automatically ejected through the sprinkler head, after release of the thermo safety device on reaching a temperature of 68°C.

Foam Automatic Type

Automatic Foam Extinguishers (AFFF – Aqueous Film Forming Foam) works by firstly applying a film forming foam (bubbles) to the fire which causes a blanket over the fire, suffocating the fire, while almost simultaneously cooling the fire.

Trolley Type

Powder Trolley

Dry Powder Mobile Trolley Extinguishers models represent newly developed designs of pressurized fire extinguishers and are characterized by their high performance and rapid fire knock down capabilities.

Foam Trolley

Mobile Foam Fire extinguishers, available in stored pressure model (TF) and external high pressure CO2 cartridge model (TFC).

Water Trolley

Water Mobile Trolley Extinguishers, fight the risk by cooling the fire and is the simple, conventional and ever-faithful extinguishing agent.

CO2 Trolley

Suitable to use on Class B and Electrical fires.

The CO2 extinguisher is especially effective on electrical fires.

Fire Rated Doors

LIFECO's fire rated doors are made of Galvanized Steel. These doors are designed for areas where strength, stability and durability are a priority. The re doors and frames are manufactured at a state of the art facility. 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.

Types Of Doors: *Single and Pairs Swinging Types Fire Door.*
Sizes : Custom sizes are available up to Maximum 3 Meter X 3 Meter.
Fire Rating : 3 HR, 1-1/2 HR, or 1 HR
Temperature Rise Rating Fire Door (Optional): 30 Min - 450 F Max
Core Material : Honey Comb Core or Ceramic Fiber Core or Fiber Glass
Finishes : Epoxy powder coated

Automatic Water Jet System

Model: LF-AWJS

Automatic Water Jet System type fire extinguishing device is a new generation of high-tech, highly intelligent fire water monitor fire extinguishing system that integrates video, detection, alarm and fire extinguishing.

The system adopts infrared and ultraviolet composite sensing detection technology, fire image detection video monitoring technology, intelligent laser optical smoke sensing technology and CAN bus communication technology, and has high intelligent tracking, positioning and fire extinguishing capabilities.

Model: LF-AWJS-1

Maximum protection radius: 50m

Installation Height: 8 - 15m

Working Pressure: 8 Bar

Rated Flow: 20 L/s

Input Voltage: 220 VAC

Model: LF-AWJS-2

Maximum protection radius: 35m

Installation Height: 6 - 13m

Working Pressure: 6 Bar

Rated Flow: 10 L/s

Input Voltage: 220 VAC

Steel Pipes for Fire Protection Systems

Firefighting pipes are specialized components specifically designed for use in fire protection and suppression systems. These pipes play a critical role in distributing water or other fire-extinguishing agents throughout buildings, facilities, or areas to combat fires effectively.

LIFECO offers a selection of firefighting pipes that are UL listed and FM approved, necessary for water and gas-based systems.

Fire Fighting Pipes

- Schedule 10 comply to ASTM A795.
- Schedule 40 comply to ASTM A53.
- Rated Working Pressure for Schedule 40 is 300 PSI (21 Bar).
- Rated Working Pressure for Schedule 10 is 175 PSI (12 Bar).
- Schedules 10 and 40 pipes are UL Listed and FM Approved.
- Schedules 10 and 40 pipes are up to 8" pipe diameter.
  More than 8" are ASTM comply without UL and FM.
- Surface Finishing: Galvanized, Painted, or Epoxy.
- End Connection: Plain, Grooved, or Threaded.

ASTM A795 Standard Specification for Black and Hot-Dipped Galvanized Welded Steel Pipe for Fire Protection Use.

Schedule	Nominal Size	Outside Diameter	Wall Thickness	Mass of Black Tube	Test Pressure
	(Inch)	(mm)	(mm)	(Plain End (kg/m)	(Grade B (PSI)
Schedule 10	3/4"	26.7	2.11	1.28	700
	1"	33.4	2.77	2.09	700
	11/4"	42.2	2.77	2.69	1000
	11/2"	48.3	2.77	3.11	1000
	2"	60.3	2.77	3.93	1000
	21/2"	73.0	3.05	5.26	1000
	3"	88.9	3.05	6.46	1000
	4"	114.3	3.05	8.37	1200
	5"	141.3	3.05	11.58	1200
	6"	168.3	3.05	13.85	1000
	8"	219.1	4.78	25.26	800

ASTM A53 Standard Specification for Pipe, Steel, Black and Hot-Dipped, Welded.

Schedule	Nominal Size	Outside Diameter	Wall Thickness	Mass of Black Tube	Test Pressure
	(Inch)	(mm)	(mm)	(Plain End (kg/m)	(Grade B (PSI)
Schedule 40	1/2"	21.3	2.77	1.27	700
	3/4"	26.7	2.78	1.69	700
	1"	33.4	3.38	2.5	700
	11/4"	42.2	3.56	3.39	1300
	11/2"	48.3	3.68	4.05	1300
	2"	60.3	3.91	5.44	2500
	21/2"	73	5.16	8.63	2500
	3"	88.9	5.49	11.29	2500
	4"	114.3	6.02	16.07	2210
	5"	141.3	6.55	21.77	1950
	6"	168.3	7.11	28.26	1780
	8"	219.1	8.18	42.55	1570

Pipe Fittings

Pipe fittings are crucial connectors in piping systems, used to join pipes, and change direction. Available in various materials and sizes. pipe fittings are designed to handle different pressures and conditions. Choosing the right fittings is vital for an efficient and reliable piping system.

Grooved Pipe Fittings & Couplings*

- Certificate: UL Listed / FM Approved
- Standard: ANSI / UL 213C
- Material: Ductile iron ASTM A536, 65-45-12
- Type: Short / Standard / Long
- Rated pressure: 300 ~ 500 PSI
- Surface: Red painting / hot dip galvanized

Malleable Iron Pipe Fittings*

- Certificate: UL Listed / FM Approved
- 1/8th of an inch, or 6 mm, all the way up to 6 inches, or 150 mm.
- Dimentions: 6.4 mm to 25.4 mm, or 0.25 inches to 1 inch.
- Type: Short / Standard / Long
- Rated pressure: High Pressure
- Galvanized malleable iron finish: water, air and steam installations

The items featured on this page are not our own brand products. Items are sourced from trusted suppliers to offer you a wider range of choices.

SAFETY PRODUCTS

Fire Fighting Suits

LF-FS103   LF-FS104

Material:NomexIIIA/Kevlar Blended fabric,Aramid,FRcotton fabric etc for options.
Moisture Layer:nomex spunlae substrate with PTEF membrane.
Thermal lining:Aramid felt.
Comfortable layer:aramid/viscose woven fabric.
Color:Navy blue,Khaki,Black,Orange,Yellow,Red ect for options.
Standard:NFPA1971:2007,EN469:2005

Antistastic Under Wear

LF-FUD

Material: 100% cotton with antistastic fiber, Knitted fabric

Standard features: Round neckline, Long sleeve T-shirt, trousers

Color: Navy blue

Fire & Rescue Boots

LF-FFB202

LF-RB05

- 16" (40cm) high / approx. 7 lbs.(3.2kg)
- High density flame/heat resisting out shell rubber.
- Carbon Fiber lining/Kevlar lining.
- Vulcanized pull on loops enable easy donning 100% polyurethane insole reduces foot, leg, andbackfatigue.
- Meets NFPA 1971 and NFPA 1992; CSA, EN 15090-2012
- Size: 3 to 16 full sizes; 5.5 to 15.5 half

Fire Fighting Helmets

LF-FH201

LF-FH202

- Material: Teflon and fiber glass reinforced composite shell.
- Comfortable sure-lock ratchet headband
- Balanced 4point nylon crowmstraps
- 6-point chinstrap with quick-release buckle
- Rip-stop Nomex ear/neck protector
- Leather ratchet cover
- Comply to EN443,NFPA1971 standard

LF-FH01

LF-FH02

- Kevlar and fiberglass reinforced composite shell.
- Hi-gloss paint finish Polyurethane click-clackimpactliner.
- Can resist extremely high temperature, the spray flame of 1000°c can protect for 10 seconds continuously.
- Long time against high temperature, 260°c. environment for sustainable protection of the head more than 30 minutes, thermal radiation test kw/m2.
- Provide comprehensive protection including face and neck.
- Comply to EN443,NFPA1971 standard.
- Color:Yellow,Red,Silver color for option.

Fire Fighting Gloves

LF-FG203

LF-FG204

- Structure: flame retardant layer, waterproof layer,insulating layer, comfort layer.
- Material: Ripstop nomexIIIA flame retardant cloth,TPU waterproof bag, aramid insulation felt, flame retardant needle weaving, Kevlar lining fire resistant silicone wear resistant cloth, resistance burning strip, stainless steel metal pendant.
- Specification: 32 cmlong or 40cmoptional.
- Implementation criteria: EN659, EN407,EN420,EN 388.

LF-FG301

LF-FG302

- Material: 100% Cow hide Genuine Leather Fireproof and water proof, High Abrasion; Cut Resistant; with kevlar or Nomex lining.
- Kevlar/Aramid thread used for stitching of gloves Style:Five Fingers type.
- Characteristic: Breathable, Comfortable and durable and strong protective properties.
- Standard: EN659.

Fire Fighter Gear Bag

LF-XB101

Material: 600D Polyester

SIZE: 80x38x43cm

This wheeled bag is virtually indestructible. Fully molded top, bottom and sides. Largest zippers available. Retractable luggage-style handle canbe"zipped" bags. Two D-rings for attaching shoulder strap.

LF-XB102

Material: 600D Polyester

SIZE: 40x40x34cm

The Deluxe Gear Bag Without Wheels. We madeit possibleto take all your equipment with you in one bag. Includesaventalation pouch to help keep your gear dryandstaymildew free. Also has a name plate holder for easyidentification as well as reflective striping makes it easytofind even at night.

Self Contained Breathing Apparatus

LF-XB301

Name: Cylinder Cover

Material: 270gsm Fire resistant fabric

Volume: for 6.8L carbon fiber cylinder or 9L

Color: Orange, and black color for options

LF-BR102

- Cylinder Volume: 9 L
- Working pressure: 300bar
- Air Storage capacity: 2700L
- Cylinder Materials: Carbon fiber
- Inhalation resistance ≤500pa
- Exhalation resistance ≤1000pa
- Alarm pressure 5.5±0.5Mpa
- Alarm sound ≥90db
- Using temperature -30°C - 60°C
- Time of using 90 mins

LF-BM101

LF-BM102

LF-BM103

LF-BM104

LF-BM105

LFBH206

LF-BH207

LF-BH208

Notes:

LICHFIELD
FIRE & SAFETY EQUIPMENT CO. LTD.

LIFECO

LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.

UNITED KINGDOM

Edmund House 12-22 Newhall Street
Birmingham, B3 3AS
T - +44 1902 798 706
F - +44 1902 798 679
E - sales@lifeco-uk.com

BRANCH OF LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.

KINGDOM OF SAUDI ARABIA

2383 Salah Al Din Al Ayoubi Rd,
Al Malaz Dist., Unit 3,
Riyadh - 12841 - 8310

E - sales@lifeco-uk.com

LICHFIELD FIRE & SAFETY EQUIPMENT CO. FZE.

UNITED ARAB EMIRATES

PO Box. 18605, 822nd Street
Jabel Ali Free Zone, Dubai
T - +971 4 883 4070
F - +971 4 883 4071
E - sales@lifeco-uk.com

www.lifeco-uk.com