



FIRE HOSE REEL USERS GUIDE

SWINGING ARM TYPE **Model LF-MA25 & Model LF-MA19** **Model LF-AA25 & Model LF-AA19** **MA: Manual – AA: Automatic**

Installation, Operation and Maintenance Manual



EN 671-1:2012 LPCB ref. 1038BFa

WARNING

The reel must not be modified or dismantled before or during installation as such action would nullify the product certification. When not in use, the hose reel should be restored to its as installed condition with the ball valve in the off position. Don't use on live electrical equipment or liquids. Don't direct the jet at any personnel protect the hose reel system from frost.

LF-MA series manual swinging hose reels are designed for fire fight purposes only and up to EN671 and EN694 Standard.
 LF-AA series automatic swinging hose reels are designed for fire fight purposes only and up to EN671 and EN694 Standard.

Product Data

Model	Type	Hose specification(mm)	Reel Height A(mm)	Reel Width B(mm)	Reel Depth C(mm)	Min.Cabinet size(W*H*D) in mm
LF-MA25	Manual	25*25/30m	600	580	210	760*720*230
LF-MA19	Manual	19*20/30m	600-610	555	210	700*700*230
LF-AA25	Automatic	25*20/30m	600	555	200	760*720*230
LF-AA19	Automatic	19*20/30m	555	570-580	260	700*700*270

Please Note

In accordance with EN 671, hose for firefighting must be limited to 30m for 19mm (3/4") hose, and 25mm (1") hose

Installation

The hose should be fully run out, put under pressure and the following points checked.

1. A suitable and accessible location should be selected. The surface must be suitable to withstand a horizontal pull on the reel
2. Mark out four mounting holes as per dimension and position of the bracket in the drawing.
3. Drill the holes as marked to suit the prepared fasteners. Make sure that the point at which the Hose Reel is to be mounted is the horizontal centre-line on which the reel rotates.
4. Tighten the bracket onto the wall according to the holes, with prepared four fasteners, securely ensuring the hinge assembly is level.
5. Connect outlet end of the landing valve onto the fire reel winging pipe inlet.
6. Connect the water supply pipe onto inlet end of the valve
7. Carry out the fire reel commissioning as maintenance laid down in EN 671-3
8. Check ease of hose withdrawal in any direction and check for leaks and rewind hose in accordance with Name Plate instructions.
9. If being installed in a cabinet, it is mounted on a swinging arm which swings 180°.

Operating

1. Open the valve, pull hose towards fire, open nozzle to spray/jet and aim at base of fire.
2. After use, close the valve, drain water from hose, rewind the hose and close nozzle.

In line with our policy of continuous product improvement LIFECO reserves the right to modify specifications without prior notice.



Operating Parameters

Water supply of 2 BARG to 12 BARG pressure, it's recommended that the supply be regulated to 4 BAR

Maintenance

6 monthly inspection check for leaks as table :

Leak Location	Remedy	Leak Location	Remedy
Ball valve and inlet elbow	Tighten joints	Hose-waterway joint	Renew Clips
Ball valve	Renew valve	Hose	Renew hose
Nozzle	Replace nozzle	Waterway-inlet pipe	Renew O-ring seal

All 6 monthly and annual inspections and service should be carried out by qualified personnel who are familiar with EN671-3 requirements for maintenance records and tagging.

Annual Inspection Procedure

The hose should be fully run out, put under pressure and the following points checked.

- A. Hose reel is unobstructed and free from damage and components not corroded or leaking operating instructions are clear and legible
- B. The location is clearly marked
- C. Brackets for wall mounting are suitable for their purpose and fixed and firm
- D. The flow of water is steady and sufficient
- E. Pressure gauge is working satisfactorily and within its operating range
- F. The entire length of hose should be inspected for signs of cracking, distortion, wear or damage. If the hose shows any signs of defect, it shall be replaced or proof tested to maximum permissible working pressure.
- G. Hose clips or bindings are of the correct type and are securely fastened.
- H. Hose drum rotates freely in both directions
- I. For swinging reels, check that pivot rotates easily and that the reel swings through 180°
- J. On manual reels, check the valve is of correct type and that it operates easily and correctly.
- K. On automatic reels, check the correct operation of the automatic valve and check for the correct operation of the isolating service valve
- L. Check the condition of the water supply pipe work; particular attention should be paid to any flexible pipe work for signs of damage or wear.
- M. If fitted with a cabinet, check for signs of damage and check that the cabinet doors open freely
- N. Check that the nozzle is of the correct type and easy to operate
- O. Check the operation of any hose guide and ensure they are correctly and firmly fixed

In line with our policy of continuous product improvement LIFECO reserves the right to modify specifications without prior notice.



- P. Leave the hose reel and hose system ready for immediate use. If any extensive maintenance is necessary the hose reel or hose system should be labeled OUT OF ORDER and the competent Person should inform the user/owner.
- Q. When transparent material is used as a part of the construction of the door, then this shall not be used as the emergency access to the hose reel.
- R. An opening /closing device of the cabinet shall be provided to allow periodical inspection and maintenance. The opening device shall have provision for a security seal to be fitted. The force necessary to open and secure the seal shall be not less than 20N and not more than 40N.
- S. The screw down valve shall be positioned in the cabinet for manual hose reel in such a way that there is at least 35mm free space around the external diameter of the hand wheel, when the valve is in any position from fully open to fully closed.

Nozzle Setting	Nozzle Diameter	Inlet Size	Flow Rate at 2 bar/ 6 bar (Jet/Spray) (L/M)	Throw Range at 2 bar
Jet/Spray	6 mm	3/4”(19mm)	> 24/41	> 11.2
Jet/Spray	8 mm	1”(25mm)	> 39/68	> 11.2
Jet/Spray	7mm	1”(25mm)	>31/53	>11.2

REVISION	1.00	DATE	2023-08-18
----------	------	------	------------

In line with our policy of continuous product improvement LIFECO reserves the right to modify specifications without prior notice.





LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.

DOWNLOAD e-CATALOGUE



www.lifeco-uk.com

LICHFIELD FIRE & SAFETY EQUIPMENT CO. LTD.

UNITED KINGDOM

Unit 8, Calibre Industrial Park, Laches
Close, Four Ashes, Wolverhampton
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
T - +966 54 039 4273
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