



LICHFIELD
FIRE & SAFETY
EQUIPMENT
CO. LTD.

FIRE HOSE REEL USERS GUIDE

FIXED ARM TYPE

Model LF-MF25 & Model LF-MF19

Model LF-AF25 & Model LF-AF19

MF: Manual – AF: 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-MF series manual fixed hose reel is designed for firefight purposes only and up to EN671 and EN694 Standards. LF-AF series Automatic fixed hose reel is designed for firefight purposes only and up to EN671 and EN694 Standards.

Product Data

Model	Hose specification (mm)	Reel Height A(mm)	Diameter B(mm)	Reel Depth C(mm)	Min. Cabinet Size(mm) WxHxD
LF-MF19	19mmx20m/25m/30m	720	555	230	650x750x240
LF-MF25	25mmx20m/25m/30m	720	555	260	650x750x280
LF-AF19	19mmx30m	720	555	230	850x995x240
LF-AF25	25mmx30m	720	555	250	850x995x260

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

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 center-line on which the reel rotates.
4. Tighten the bracket onto the wall according to the holes, with prepared four fasteners. Lift the fire hose reel into position, behind the lugs of the bracket, ensuring the hinge assembly is level.
5. Connect outlet end of the landing valve onto the fire reel waterway and fasten waterway pipe to the bracket stably
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, depth of the cabinet should still allow the guide arm to protrude. The support bracket is mounted on the back of cabinet when fitted with the inlet pipe to connect the supply pipe.

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.

Operating Parameters

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

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



Maintenance

6 monthly and yearly inspections 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 month and annual inspections and services 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 to minimum 170° to allow the hose run out freely in any direction.
- 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
- 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 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.

Discharge property

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

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