TASK FORCE TIPS®
FIRE FIGHTING EQUIPMENT

Foam Aspirators

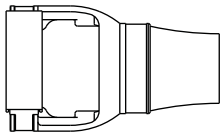
INSTRUCTION FOR INSTALLATION, OPERATION, AND MAINTENANCE

⚠WARNING

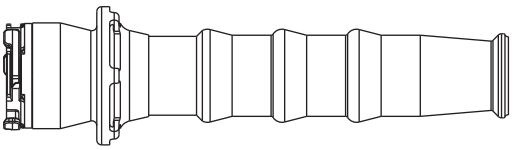
Understand manual before use. Operation of this device without understanding the manual and receiving proper training is a misuse of this equipment. Obtain safety information at tft.com/serial-number.

This equipment is intended for use by trained and qualified emergency services personnel for firefighting. All personnel using this equipment shall have completed a course of education approved by the Authority Having Jurisdiction (AHJ).

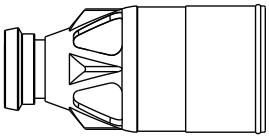
This instruction manual is intended to familiarize firefighters and maintenance personnel with the operation, servicing, and safety procedures associated with this product. This manual should be kept available to all operating and maintenance personnel.



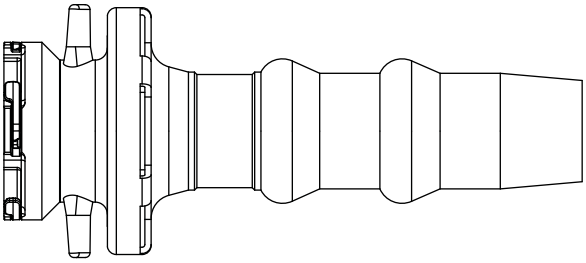
FoamJet



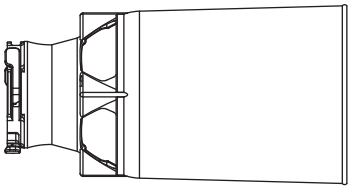
FoamJet-LX



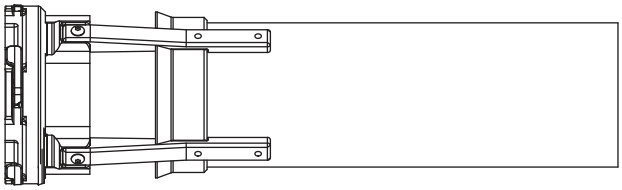
MX-FoamJet



FJ-LX-M



MX-FoamJet



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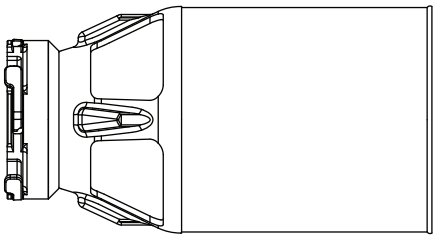
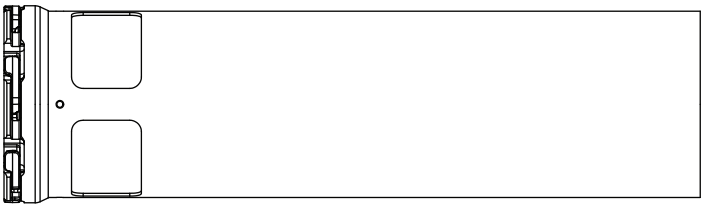


MX-FoamJet



FJ-LX-M3

TASK FORCE TIPS LLC
MADE IN USA · tft.com

3701 Innovation Way, Valparaiso, IN 46383-9327 USA
800-348-2686 · 219-462-6161 · Fax 219-464-7155

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1.0 MEANING OF SAFETY SIGNAL WORDS

A safety related message is identified by a safety alert symbol and a signal word to indicate the level of risk involved with a particular hazard. Per ANSI Z535.6, the definitions of the four signal words are as follows:

DANGER **DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.**

WARNING **WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

CAUTION **CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.**

NOTICE **NOTICE is used to address practices not related to physical injury.**

2.0 SAFETY

DANGER **Lack of foam can place operator at risk of injury or death. Establish foam flow and adequate supply of concentrate for the task before advancing into hazardous situations.**

WARNING **Improper use of agent could result in death or serious injury, including damage to the eyes. To reduce the risk of injury, avoid directing agent onto the faces of yourself and other personnel. Always wear PPE, including eye protection, as directed by the AHJ.**

WARNING **Improper use of foam or using the wrong type of foam can result in illness, injury, or damage to the environment. Follow foam manufacturer's instructions and fire service training as directed by the AHJ.**

3.0 GENERAL INFORMATION

In order to produce the best quality low and medium expansion foam for firefighting, the foam solution must be aerated by some means. The FoamJet, MX-FoamJet, and FoamJet-LX series of nozzle attachments and foam nozzles provide a simple and lightweight means to aerate the foam as it exits the nozzle. The foam attachments are quickly attached or removed from the nozzle as the situation demands. The attachments are available for a variety of TFT hand held & master stream nozzles. See the following pages for a listing of available models and compatible nozzles. The label on each attachment also lists compatible nozzles.

3.1 SPECIFICATIONS

Operating temperature range of fluid	**33 to 120° F / 1 to 50° C**
Storage temperature range	**-40 to 150° F / -40 to 65° C**

4.0 FOAM TYPE, CONCENTRATION, AND PROPORTIONING

The FoamJet, MX-Foamjet, Foamjet-LX, and Foam Nozzle can be used with most types of concentrate including protein, fluoroprotein, AFFF, and AR-AFFF (alcohol resistant foam).

The foam concentrate must be proportioned into the water before the nozzle by some means, such as batch mixing, eductors or direct injection systems.

The nature of the fire hazard will determine the type of foam used, the concentration, and the desired expansion ratio. Finished foam expansion and longevity (life) are largely dependent on the type and quality of foaming agents used in foam chemical formulations. Some foams will perform better than others when used with these devices.

5.0 ATTACHMENT TO THE NOZZLE

The FoamJet, MX-FoamJet, and FoamJet-LX Series are attached to the nozzle by three different methods. Each of the three methods is shown in the following pages. Each method clamps onto the bumper of the nozzle. Assure that bumper of nozzle is in good condition (no nicks or abrasions) to positively latch and seal to FoamJet attachment.

6.0 USE OF FOAM ATTACHMENTS

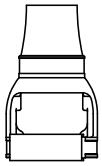
Refer to fire service training and foam concentrate manufacturer's recommendations for the proper use of foam.

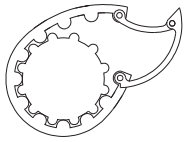
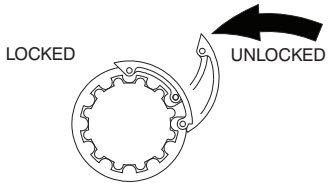
6.1 LX FOAMJET

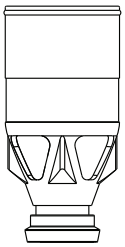
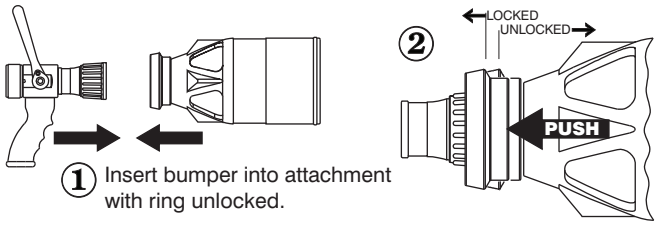
LX aspirators are intended to be used with the nozzle in the straight stream position only. Failure to do so will cause blow-back through the air intakes of the foam attachment.

6.2 MX FOAMJET

Foam expansion ratios from the MX Foamjet series may be adjusted by changing the bumper position of the nozzle. As the nozzle bumper is rotated back to the wide fog position, higher expansion ratios will be produced, but with reduced stream reach. Rotating the nozzle bumper into straight stream will produce lower expansion ratios, but with longer reach.

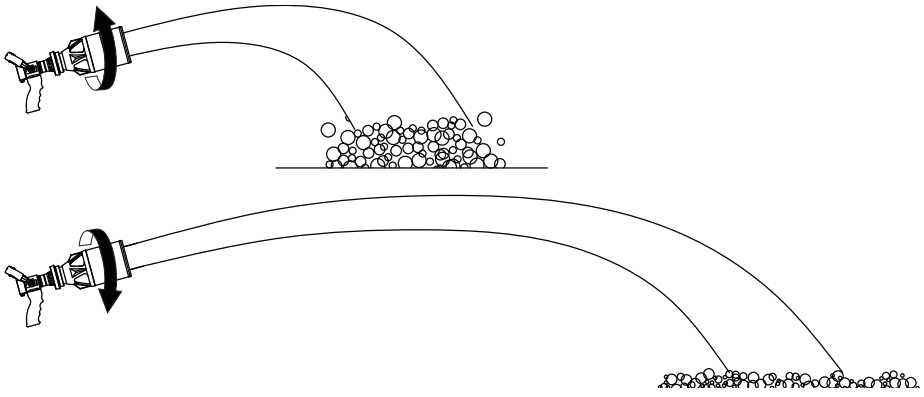


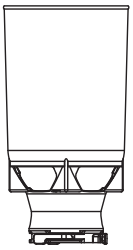
Series	FOAMJET				
Description	Low Expansion Aspirating Attachment				
Model	**FJ-DQ**	**FJ-GD**	**FJ-U**	**FJ-HM**	**FJ-H**
For Nozzle Series (Flow Range)	1” QuadraFog 5 - 40 GPM 5 - 60 GPM	1” G-Force 10 - 100 GPM	Ultimatic 10 - 125 GPM Metro 0 20-100 GPM	Mid-Matic Mid-Force Metro 1 70 - 200 GPM	Handline 95 - 300 GPM Dual-Force 95 - 300 GPM Metro 2 95 - 325 GPM
Attachment Method	 ① Insert bumper into attachment engaging ribs.  ② Move latch to locked position.				
Foam Application	Use in Straight Stream Only				

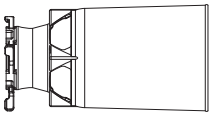
	
Series	**MX FOAMJET**
Description	Multi-Expansion Foam Aspirating Attachment
Model	**FJ-MX-D**
For Nozzle Series (Flow Range)	Twister 1” 10 - 24 GPM 10 - 40 GPM
Attachment Method	
Foam Application	Use in Straight Stream through Fog Pattern

FOG: Shorter Reach
More Expansion

STRAIGHT STREAM:
Longer Reach, Less Expansion

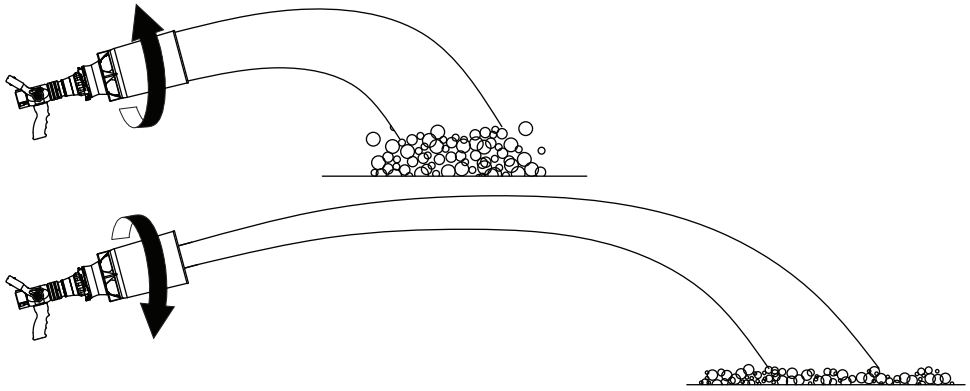


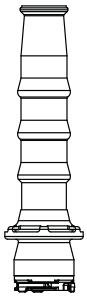
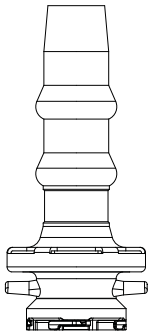
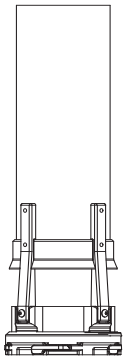


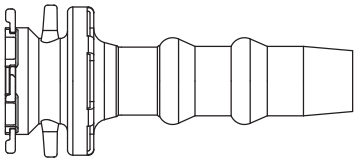
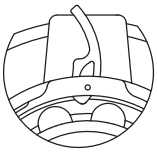
Series	**MX FOAMJET**							
Description	Multi-Expansion Foam Aspirating Attachment							
Model	**FJ-MX-F**	**FJ-MX-DQ**	**FJ-UMX**	**FJ-MX-FQ**	**FJ-MX-FT**	**FJ-MX-HM**	**FJ-MX-G**	**FJ-HMX**
For Nozzle Series (Flow Range)	1.5” Twister 20-60 GPM 20-95 GPM	1” Quadrafog 5-40 GPM 5-60 GPM Medium Expansion Suitable for 24,40&60 GPM Settings ONLY	Ultimatic 10-125 GPM Metro 0 20-100 GPM **FJ-UMX-G** 1” G-Force 10-100 GPM	1.5” Quadrafog 30-125 GPM	Thunderfog Series 30-200 GPM 95-250 GPM QuadraFog 1000 110-1000 l/min	Mid-Matic Mid-Force Metro 1 70-200 GPM	1.5” G-Force 30-150 GPM	Handline 95-300 GPM Dual-Force 95-300 GPM Metro 2 95-325 GPM
Attachment Method	 ① Insert bumper with latch unlocked. UNLOCKED LOCKED  ② Push levers down to lock in place.							
Foam Application	Use in Straight Stream through Fog Pattern							

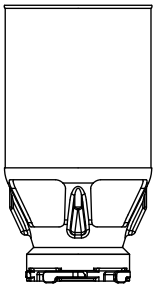
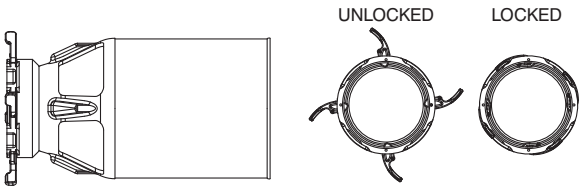
FOG: Shorter Reach
More Expansion

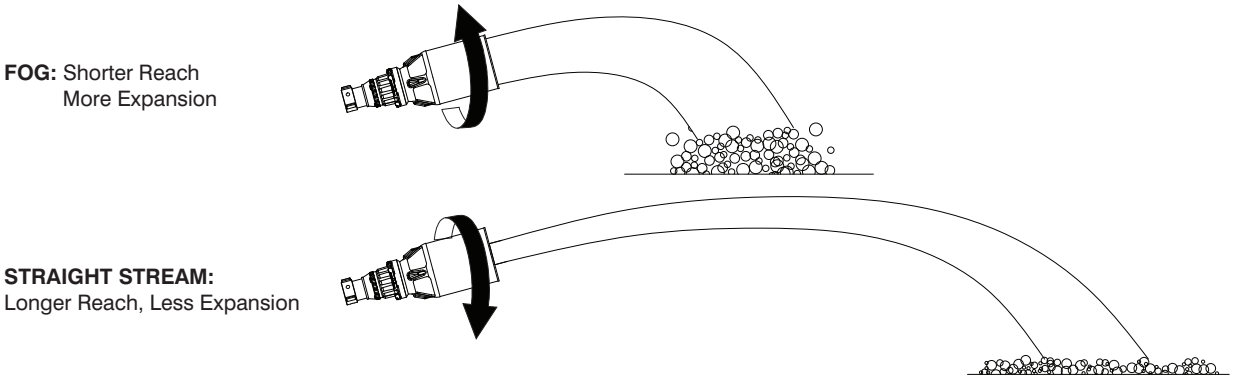
STRAIGHT STREAM:
Longer Reach, Less Expansion



Series	**FOAMJET-LX**					
Description	Low Expansion Foam Aspirating Attachment					
Model	**FJ-LX-U**	**FJ-LX-G**	**FJ-LX-FQ**	**FJ-LX-HM**	**FJ-LX-M**	**FJ-LX-M2**
For Nozzle Series (Flow Range)	Ultimatic 10-125 GPM Metro 0 20-100 GPM	1.5” G-Force 30-150 GPM	1.5” Quadrafog 30-125 GPM	Mid-Matic Mid-Force Metro 1 70-200 GPM	Master Stream 1000, 1250S Master Foam 250-750 GPM (946-2839 l/min) and Master Force 300-800 GPM (1100-3000 l/min) series nozzles	M-F* series Master Stream nozzles
	FJ-LX-U-G 1” G-Force 10-100 GPM					**FJ-LX-M3** Master Stream 1250, 1500
Attachment Method	 ① Insert bumper into atachment with latches unlocked	 ② Align latches between bumper and ribs	 *Unlocked*  *Locked* ③ Lock all latches			
Foam Application	Use in Straight Stream Only					

	
Series	**MX FOAMJET**
Description	Low Expansion Foam Aspirating Attachment
Model	**FJ-MX-MD**
For Nozzle Series (Flow Range)	MD Series: 100-500 GPM (Max-Force, Max-Matic, Max-Flow) ZN Series: 350, 500 & 750 GPM Industrial Nozzle
Attachment Method	
Foam Application	Use in Straight Stream through Fog Pattern



7.0 USING FOAM

It is recommended that the Class A foam used meets USDA Forest Service 5100-307A “Specification for Fire Suppressant Foam for Wildland Firefighting (Class A Foam)”, or NFPA 1150 “Foam Chemicals for Fires in Class A Fuels”.

⚠WARNING **Improper use of foam or using the wrong type of foam can result in illness, injury, or damage to the environment. Follow foam manufacturer’s instructions and fire service training as directed by the AHJ.**

⚠WARNING **For Class B fires, lack of foam or interruption in the foam stream can cause a break in the foam blanket and greatly increase the risk of injury or death. Follow procedures established by the AHJ for the specific fuel and conditions.**

8.0 WARRANTY

Go to tft.com for all warranty information.

9.0 MAINTENANCE

TFT products are designed and manufactured to be damage resistant and require minimal maintenance. However, as the primary firefighting tool upon which your life depends, it should be treated accordingly. To help prevent mechanical damage, do not drop or throw equipment.

9.1 FIELD LUBRICATION

All Task Force Tips nozzles are factory lubricated with high quality silicone grease. This lubricant has excellent wash out resistance, providing long term performance. If your agency has unusually hard or sandy water, the moving parts of the nozzle may be affected. Foam agents and water additives contain soaps and chemicals that may break down the factory lubrication.

The moving parts of the nozzle should be checked on a regular basis for smooth and free operation, and for signs of damage. IF THE NOZZLE IS OPERATING CORRECTLY, THEN NO ADDITIONAL LUBRICANT IS NEEDED. Any nozzle that is not operating correctly should be immediately removed from service. The nozzle can be returned to the factory at any time for a complete checkup and re-lubrication with silicone grease.

The field use of Break Free CLP (spray or liquid) lubricant will help to temporarily restore the smooth and free operation of the nozzle. These lubricants do not have the washout resistance and long-term performance of the silicone grease. Once Break Free CLP is applied, re-application will be needed on a regular basis until the nozzle can be returned to the factory for a complete checkup and re-lubrication with silicone grease.

⚠CAUTION **Aerosol lubricants contain solvents that can swell O-Rings if applied in excess. The swelling can inhibit smooth operation of the moving parts. When used in moderation, as directed, the solvents quickly evaporate without adversely swelling the O-Rings.**

9.2 SERVICE TESTING

In accordance with NFPA 1962, equipment must be tested a minimum of annually. Units failing any part of this test must be removed from service, repaired and retested upon completion of the repair.

9.3 REPAIR

Factory service is available. Factory serviced equipment is repaired by experienced technicians, wet tested to original specifications, and promptly returned. Call TFT service department at 1-800-348-2686 to troubleshoot and, if needed, directions for return. A return for service form can also be obtained at tft.com/Support/Returning-an-Item-for-Service.

Repair parts and service procedures are available for those wishing to perform their own repairs. Task Force Tips assumes no liability for damage to equipment or injury to personnel that is a result of user service. Contact the factory or visit the web site at tft.com for parts lists, exploded views, test procedures and troubleshooting guides.

Performance tests shall be conducted on the equipment after a repair, or anytime a problem is reported to verify operation in accordance with TFT test procedures. Consult factory for the procedure that corresponds to the model and serial number of the equipment. Any equipment which fails the related test criteria should be removed from service immediately. Troubleshooting guides are available with each test procedure or equipment can be returned to the factory for service and testing.

⚠WARNING **It is the responsibility of service technicians to ensure the use of appropriate protective clothing and equipment. The chosen protective clothing and equipment must provide protection from potential hazards users may encounter while servicing equipment. Requirements for protective clothing and equipment are determined by the Authority Having Jurisdiction (AHJ).**

⚠CAUTION **Any alterations to the product or its markings could diminish safety and constitutes a misuse of this product.**

NOTICE **All replacement parts must be obtained from the manufacturer to assure proper performance and operation of the device.**

10.0 OPERATION AND INSPECTION CHECKLIST

BEFORE EACH USE, appliances must be inspected to this checklist:

- There is no obvious damage such as missing, broken or loose parts, dents cracks, corrosion, or other defects that could impair safe operation.
- Clamps and mounted objects are secure.
- Hose and nozzle are securely attached.
- All swiveling elements rotate freely.
- Foamjet is pointed in a safe direction.

BEFORE BEING PLACED BACK IN SERVICE, appliances must be inspected to this list:

- The waterway is clear of obstructions.
- There is no damage to any connections.
- All locks and hold-down devices work properly.
- There is no obvious damage such as missing, broken or loose parts, dents cracks, corrosion, or other defects that could impair safe operation.
- All swiveling elements rotate freely.
- There are no missing parts or components.

⚠WARNING **Equipment failing any part of the checklist is unsafe for use and must have the problem corrected before use or being placed back into service. Operating equipment that has failed the checklist is a misuse of this equipment.**