MOBILE FOAM DEVICE SERIES

PY/B
MOBILE FOAM UNIT

The FOREDE® Brand mobile foam unit is quick and easy to operate and reliable. Used to extinguish fires of Class A, B and C non-water-soluble liquids. It is widely used in municipal residential areas, factories and mines, oil depots, chemical departments, heat treatment workshops, gas stations and other places.

When the mobile foam fire extinguishing device extinguishes the fire, the pipe joints at both ends of the pipeline proportional mixer are connected to the fire hose and connected to the pressure water source. When there is water with a pressure of not less than 0.6MPa, it flows through the ratio at a high speed and mixes. Due to the diffusion effect of the lateral movement of the jet particles, the chamber of the proportional mixer forms a vacuum (negative pressure), so the foam liquid in the foam liquid storage tank enters the mixer through the suction pipe under the pressure of the atmosphere. It is mixed with pressurized water, and finally reaches a certain proportion of the mixed liquid, which is sprayed by foam gun and foam generator to extinguish the fire.

FEATURES

- Glass fiber reinforced plastics polyester
- Available for water and foam
- Mobile, Highly maneuverable
- Ready for instant operation
- Simple for operation
- Long service and easy repair
- Liquid-filled pressure gauge
- Complete with locking device
- ➢ Flow rate: 240/480 LPM optional
- ➢ Foam Jetting Range: ⩾24 meters
- ➢ Foam Expansion: ⩾5 times
- ➢ 25% Liquid Precipitation Time: ⩾ 120 S
- ➢ Working Pressure: 6-8 bar (0.6-0.8MPa)
- ➢ Coupling : 1.5”-2.5”, Storz, NH, John Morris,Gost, Machino,etc



Parts information		
Material	Tank	Glass fiber reinforced plastics polyester
	Foam Generator Inductor	Brass & Aluminum
	Foam Nozzle	Stainless Steel and Aluminum
Adaptor	STORZ,NH,GOST, INSTANTANEOUS,MACHINO,etc.	
Parts	Fire hose: 2 rolls × 23 m is standard,other length available upon request.	
	Foam nozzle: 1 set, flow rate optional.	
	Foam generator inductor: 1 set.	

APPLICATION

- Refineries
- Fuel distribution depots
- Chemical plants
- Warehouses
- Helicopter landing pads
- Aircraft hangars
- Loading jetties
- Process plants
- Industrial process areas
- Shipping

Technical Data Sheet					
Model	Capacity	Flow Rate	Working Pressure	Mixing Ratio	Inlet/Outlet
PY/B	140L	150LPM 200LPM 400LPM	6-8 Bar	1-6% adjustable	1.5”, 2”, 2.5”



BRIEF INSTRUCTIONS

FOAM CONTAINER TANK

The foam container tank is made of glass fiber reinforced plastics polyester, It brings light weight, strong strength and easier movable for fire fighting works. It is a kind of composite material. Due to its unique properties, it has been widely used in more than 10 industries such as aviation, railways, construction, furniture, building materials, sports, and environmental sanitation engineering, and has been highly praised and become a big demand in the materials industry.



FIRE HOSE

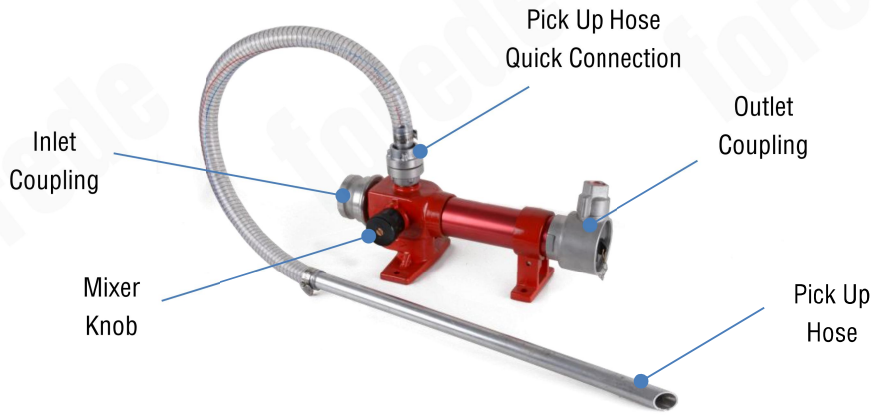
PVC Durable Fire Hose with good ware resistance and aging resistance, working temperature range: -10℃ up to 60℃.

Each mobile foam unit equipped with 2 rolls PVC Durable Fire Hose, 1.5", 2", 2.5" size optional, and 15meters standard length. Accept customized if necessary.



FOAM GENERATOR INDUCTOR

In line foam generator inductor has a metering head with easy-read knob for 1%, 2%, 3%, 4%, 5%, 6% and 7% . Your choice of extra large 36" pickup hose with stainless steel wand or direct truck connect pickup hose are ideal for use with high viscosity foams. The meter head is equipped with a unique back flush push-button for fast cleaning, and is secured to the inductor body with a rugged disconnect. All controls are easy to use with gloves. Made of hard coat anodized aluminum for corrosion protection. The required inlet pressure is 200 psi. The maximum allowable back pressure is 130 psi.

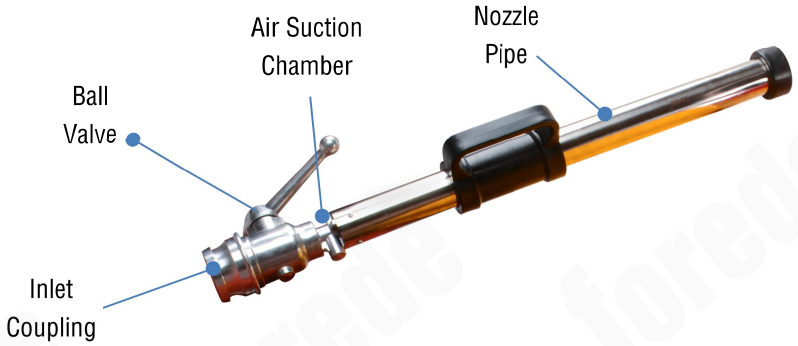


Model	Flow Rate	Working Pressure	Mixing Ratio	Inlet/Outlet	Material
PFH6	240LPM@7 Bar 480LPM@10 Bar	7-10 Bar	1-6% adjustable	1.5'', 2'', 2.5"	Body: Brass+Aluminum Alloy Coupling: Aluminum Alloy Pick up hose: Rubber+SS304

LOW EXPANSION FOAM NOZZLE

PQB Low Expansion Foam nozzle have been designed to perform well with all types of foam concentrate, offer longer throw and superior cooling compared to medium expansion foam Branch Pipes. These are available with or without self-induction. Self-inducting model is supplied with foam pick-up tube and stainless steel piercer. Non self-inducting model is fully compatible with variable inline foam generator inductors which are available separately.

PQB Low Expansion Foam Nozzle is constructed of aluminum alloy that is Hard anodized for durability.



Model	Flow Rate	Jetting Range	Foam Expansion	Inlet/Outlet	Working Pressure	Material
PQB3	150 LPM	≥20m	≥ 5 Times	1.5'', 2'', 2.5"	6-16 Bar	Body: SS304+Aluminum Ball Valve: SS304 Coupling: Aluminum
PQB4	240 LPM	≥24m	≥ 5 Times	1.5'', 2'', 2.5"	6-16 Bar	
PQB8	480 LPM	≥28m	≥ 5 Times	1.5'', 2'', 2.5"	6-16 Bar	

WORKING PRINCIPLE

When the mobile foam unit device extinguishing fire, the pipe joints at both ends of the pipeline type proportional mixer are connected with the fire hose and connected to the pressure water source. When there is no less than pressure water flowing through the proportional mixer at a high speed In the case of the nozzle, due to the diffusion effect of the lateral movement of the jet particles, a vacuum (negative pressure) is formed in the chamber of the proportional mixer, so the foam liquid in the storage tank enters the mixer through the suction pipe under the action of atmospheric pressure, and The pressure water is mixed, and finally a certain proportion of the mixed liquid is reached. When the mixed liquid with a certain pressure flows to the foam nozzle, because of the performance of the foam nozzle, a certain amount of air will be inhaled, so that the foam mixture will foam, so as to achieve the foam fire extinguishing effect.

OPERATION

The device should generally be operated by two persons: one person holds the foam nozzle and point to extinguish the fire, the other person connects the fire hose to fire hydrant and open the fire hydrant valve to supply water. The exploration steps are as follows:

Step 1. Connecting fire hose to the water supply source with the pressure water inlet of the mobile foam unit;
Step 2. Remove the foam nozzle and unfold fire hose;
Step 3. Connecting fire hose to foam nozzle and the outlet of the mobile foam unit;
Step 4. Turn on the water supply source;
Step 5. Hold the foam nozzle to extinguish the fire.

MAINTENANCE

1) Filling of fire extinguishing agent: After using, the user must purchase the same type of foam fire extinguishing fluid for supplementary filling; when filling, it can be sucked in with a plastic pipe or injected from the filling port with a funnel; tighten the filling after filling Cover to prevent the foam from splashing out when the device is moving.
2) The device should be placed in a cool, ventilated, and accessible place.
3) The tank body of this device is made of corrosion-resistant material. It is strictly forbidden to knock it hard to cause the anti-corrosion layer in the tank to fall off.
4) If the device has not been used for long-term storage, the foam liquid should be rechecked once a year to see if it has deteriorated. If it is found to be deteriorated, it should be replaced in time.
5) After each use of this device, the fire hose should be carefully cleaned and dried before being wound on the equipment reel (it is recommended that the user prepare a spare fire hose to prevent sudden fire).
6) In order to keep the device in a good fireproof state for a long time and the quality of the foam liquid in the tank, the foam storage tank should be opened and cleaned once every 3 years.
7) When the water supply source is a motorized hydraulic pump or a fire fighting water tanker, the water supply pressure should not be greater than. When purchasing device, it should be equipped with a fire hose that can withstand working pressure.

ORDERING GUIDE

- Model Number
- Inlet Connection way, size and standard.
- Order Quantity
- Shipping/Transportation Way



***Other special requirements please contact FOREDE SALES TEAM.**

Tips: for more related products or other firefighting equipment, please forward to our website, www.forede.com