MOBILE FOAM TROLLEY UNIT

Frozenfire Stainless Steel Mobile Foam Trolley Unit

Product Overview

The Frozenfire Stainless Steel (SS) Mobile Foam Trolley Unit is a self-contained, portable firefighting system designed to provide rapid and effective suppression of Class A and Class B fires involving flammable and combustible liquids. Manufactured from high-quality Stainless Steel SS304 (SS316 optional), the trolley offers exceptional corrosion resistance, durability, and long service life, making it ideal for use in harsh industrial and marine environments.



The unit integrates a stainless steel foam concentrate storage tank, foam inductor, foam making branch pipe, pickup hose, and heavy-duty trolley frame into a compact and mobile firefighting solution. Designed for quick deployment, the trolley enables firefighters to transport foam concentrate directly to the fire scene and generate high-quality low-expansion foam using the available water supply.

Available in 100 Litre, 150 Litre, and 200 Litre capacities, the Frozenfire SS Mobile Foam Trolley Unit is suitable for protecting oil depots, refineries, petrochemical plants, chemical industries, airports, marine terminals, power plants, warehouses, and other high-risk industrial facilities.

Working Principle

The Mobile Foam Trolley Unit operates using the Venturi induction principle. Pressurized water from a fire hydrant or pump is supplied to the foam inductor. The pressure differential created inside the inductor automatically draws foam concentrate from the stainless steel storage tank through the pickup hose at the preset proportion (typically 3% or 6%).

The foam solution is then discharged through the foam making branch pipe, where atmospheric air is aspirated to produce a stable, low-expansion foam. The generated foam forms a continuous blanket over the burning liquid surface, cutting off the oxygen supply, suppressing flammable vapours, cooling the fuel surface, and preventing re-ignition.

Construction

The Frozenfire SS Mobile Foam Trolley Unit is manufactured using premium-grade materials to ensure reliable performance under demanding operating conditions.

The unit consists of:

- Stainless Steel SS304 foam concentrate tank
- Heavy-duty welded tubular trolley frame
- Foam inductor (Inline Foam Inductor)
- Foam Making Branch Pipe (FB-5 / FB-10)

FROZENFIRE INDUSTRIES LLP
Factory Office:
Plot No.C-73, Maruti Industrial Park, Naroda Memco Road,
Opp. Naroda Fire Station, Ahmedabad–382324, INDIA
Email: info@frozenfire.in
Website: www.frozenfire.in

- Flexible foam pickup hose with dip tube
- Stainless steel ball valve and fittings
- Large solid rubber wheels for easy transportation
- Push handle
- Tank drain valve
- Tank filling cap with vent
- Stainless steel fasteners
- Corrosion-resistant polished or satin finish

Optional construction in SS316 is available for marine and highly corrosive environments.

Key Features

- Manufactured from premium SS304 stainless steel
- SS316 construction available on request
- Corrosion-resistant and weatherproof design
- Portable and easy to operate
- Suitable for rapid emergency response
- Integrated foam induction system
- Produces high-quality low-expansion foam
- Rugged heavy-duty trolley construction
- Large wheels for easy movement over uneven surfaces
- Low maintenance and long service life
- Compatible with all major foam concentrates
- Easy filling and cleaning
- Suitable for indoor and outdoor applications

Performance Advantages

The Frozenfire Stainless Steel Mobile Foam Trolley Unit is designed to provide dependable firefighting performance while minimizing operator effort. Its portable design allows immediate deployment without requiring permanent installation, making it an ideal solution for industrial facilities where mobility is essential.

The stainless steel construction ensures excellent resistance to corrosion, moisture, salt spray, chemicals, and harsh environmental conditions. The efficient foam induction system provides consistent foam quality, while the heavy-duty trolley allows smooth transportation across plant areas during emergency operations.

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Applications

The Frozenfire SS Mobile Foam Trolley Unit is recommended for protecting:

Oil & Gas Industry

- Oil Refineries
- Fuel Storage Depots
- Tank Farms
- Petroleum Terminals
- Loading & Unloading Bays

Petrochemical Industry

- Chemical Plants
- Solvent Storage Areas
- Process Units
- Hydrocarbon Facilities

Aviation

- Airport Fire Stations
- Aircraft Hangars
- Aviation Fuel Storage

Marine & Offshore

- Ports and Harbours
- Shipyards
- Offshore Platforms
- Marine Fuel Storage
- Coastal Industrial Facilities

Industrial Facilities

- Power Plants
- Warehouses
- Paint Manufacturing Plants
- Pharmaceutical Industries
- Hazardous Material Storage
- Manufacturing Units
- Fire Brigade Stations

Compatible Foam Concentrates

The unit is compatible with:

- AFFF (Aqueous Film Forming Foam)
- AR-AFFF (Alcohol Resistant AFFF)
- Protein Foam
- Fluoroprotein Foam
- FFFP (Film Forming Fluoroprotein Foam)
- Synthetic Foam Concentrates

Available in 3% and 6% proportioning configurations.

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Available Capacities

Frozenfire Stainless Steel Mobile Foam Trolley Units are available in:

- 100 Litre
- 150 Litre
- 200 Litre

Custom capacities are available upon request.

Accessories

Frozenfire Foam Trolley Consisting of following equipment's as per demand:

- Foam Maing Branch FB-5 / FB-10 depend upon requirement
- Inline Inductor with flow Capacity of 225Lpm /450 lpm@7Kg/cm2
- Two Numbers Fire Hoses 7.5Mtr / 15Mtr / 30Mtr in Type- A(Canvas) / Type-2(Elastomeric)/ Type-B (Rubber)
- Aqua Fim Forming Foam 3% / 6% (20Ltr Jerry Cane / 200Ltr Drum)

Typical Technical Specifications

Parameter	Specification
Product	Stainless Steel Mobile Foam Trolley Unit
Tank Capacity	100 L, 150 L, 200 L
Tank Material	SS304 (SS316 Optional)
Trolley Frame	Mild Steel / Stainless Steel
Foam Branch / Inductor Material	Aluminum / Stainless Steel
Foam Inductor	225 LPM / 450 LPM
Foam Branch Pipe	FB-5 / FB-10
Foam Percentage	3% / 6%
Operating Pressure	5–7 Bar
Pickup Hose	Reinforced Flexible Hose with SS Strainer
Wheels	Heavy-Duty Solid Rubber
Finish	Polished / Satin Stainless Steel
Application	Class A & Class B Fire Protection

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Inspection & Testing

Each Frozenfire Stainless Steel Mobile Foam Trolley Unit undergoes stringent quality control and testing, including:

- Tank leak test
- Foam induction performance test
- Flow rate verification
- Branch pipe functional test
- Wheel and frame inspection
- Valve operation test
- Visual and dimensional inspection

Each unit is inspected to ensure reliable operation and long-term performance under industrial firefighting conditions.

Advantages

- Excellent corrosion resistance with SS304 construction.
- Long service life in industrial and marine environments.
- Easy mobility for rapid deployment.
- Efficient foam induction with consistent foam quality.
- Heavy-duty design for demanding firefighting applications.
- Compatible with a wide range of foam concentrates.
- Minimal maintenance requirements.
- Robust construction with premium stainless steel components.
- Available in multiple capacities to suit various risk levels.
- Ideal for fixed facilities requiring a portable firefighting solution.

Summary

The Frozenfire Stainless Steel Mobile Foam Trolley Unit is engineered to provide a reliable, mobile, and efficient foam firefighting solution for industrial fire protection. Combining corrosion-resistant stainless steel construction, advanced foam induction technology, and rugged mobility, it delivers outstanding performance for emergency response in oil & gas, petrochemical, aviation, marine, and industrial applications. Designed for durability, ease of operation, and long-term reliability, it is an essential firefighting asset for safeguarding personnel, equipment, and critical infrastructure.

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