

FOAM TRAILER

HARDWARE

Features

Trailer design offers extreme mobility

Single, dual and multiple polypropylene tote design available

Metal concentrate tank or custom design trailers also available

Tote containers are manufactured of high density polyethylene and are incased in a rigid galvanized steel grid. Available in 1003 litre (265 gallon) and 1211 litre (320 gallon) capacities

Standard metal tanks available in sizes of 1893, 2839 and 3785 litres (500, 750 and 1000 gallons). Note: Custom designed sizes available to meet customer needs

Trailer constructed of all welded steel

High flow capacity

Self-educing nozzle

Accessory options available including NFPA 1901 compliance

Meet DOT highway requirements



Description

The SOLBERG® Foam Trailer consists of the following: A complete mobile package meeting all applicable NFPA standards consisting of a trailer constructed with frame, wheels, and axles capable of carrying the total charged weight of the trailer assembly and the foam concentrate. The trailer frame includes a tongue jack, electrical connections, NFPA 1901 lighting package (optional), reflective striping, rear mud flaps, and rearstabilizer jacks. The foam system

can utilize either of two foam storage vessel designs: polyethylene tote(s), either single, dual, or multiple or a rigidly constructed metal foam tank. The foam monitor is capable of delivering up to 3785 l/min (1000 gpm) of foam solution at a pressure of 7.0 bar (100 psi). The monitor connections are up to 80 mm (3"). The self-educing monitor nozzle is capable of delivering up to 3785 l/min (1000 gpm) at 7.0 bar (100 psi).

Application

The SOLBERG Foam Trailer is designed to provide quick, mobile foam fire protection for hazards consisting of flammable liquids. These types of hazards can be defined as tank farms, loading racks (both truck and rail), chemical processing plants, and marine off loading/on loading terminals. The trailer storage vessel, either tote(s) or metal tank, provides a large capacity supply of foam concentrate. The pre-piped monitor and nozzle allow for the foam system to be put into action very rapidly. The SOLBERG Foam Tote Trailer greatly increases the firefighting ability of industrial, municipal, and military fire emergency responders.

Specifications

Trailer Frame

The trailer frame shall be constructed of all welded steel. No bolts, screws, or rivets shall be used in the construction of the frame. The trailer framework shall be constructed of 102 mm x 51 mm x 3.2 mm (4.0" x 2.0" x 0.125") wall steel tubing. The cross members shall be notched at their ends to fit inside the outer frame channels. Cross members shall be positioned to maximize support for the foam totes, monitors, and plumbing. Two lengths of 100 mm (4") channel shall be welded diagonally between the coupler and the front corners of the frame. The front of the trailer (monitor operators position), shall be covered with 3 mm (0.125")

embossed aluminum diamond plate. Mounting provisions shall be provided for the foam tank(s). The trailer shall be equipped with 2-5/16" coupler, adjustable front jack, two rear stabilizer jacks, and full light package for highway use.

Axles

Each axle shall have a minimum load rating of 1588 kg (3500 lb). The axles shall be bolted to the frame utilizing Grade 8 bolts. The axles shall consist of torsion bar suspension with independent wheel movement to provide maximum shock absorption and proper handling.

Brakes

The trailer assembly shall contain an electric brake system.

NFPA Lighting Package (optional)

The trailer shall contain a light package that meets the minimum warning light and actuation requirements of NFPA 1901 Fire Apparatus Standard (current edition).

Hose Bins

Two hose bins shall be provided. Located above each of the trailer fenders.

Tote Tank

Each tote foam storage container shall be sized to hold 1003 litres (265 gallons) (or optionally 1211 litres [320 gallons]) of foam concentrate. The tote shall be constructed of high density polyethylene. The tote shall be enclosed by a galvanized steel base and rigid, welded galvanized tubular steel grid.

Metal Tank

The optional metal foam storage container shall be sized to hold 500, 750, or 1000 gallons (1893, 2839, 3785 litres) of foam concentrate. The metal tank shall be constructed of painted steel, or stainless steel, of sufficient gauge. Custom designed sizes shall be available to meet customer needs.

Foam Tank Connection

Foam connection hoses shall be constructed of 38 mm (1.5") suction hose to allow foam flow. Cam and groove couplings shall be used to enable quick connection and disconnection of the foam concentrate hoses.

Foam Monitor

The 80 mm (3") monitor inlet shall be provided at the front of the trailer. The inlet shall terminate with a 80 mm (3") or 100 mm (4") 4-bolt 150# flange. The discharge shall be gated with a 80 mm (3") quarter turn ball valve. The valve controller shall be located on the valve. The monitor shall be bolted directly to the 3" flange. Threaded 0.25" NPT ports shall be provided for drain valve and pressure gauge. Maximum flow capacity of 3785 l/min (1000 gpm) shall be based on monitor type selected.

Self-Educting Foam Nozzle

Fixed flow rate combination, fog, straight stream, self-educting, constant flow foam nozzle shall be available with a flow rate up to 3785 l/min (1000 gpm) at 7.0 bar (100 psi) (specify) and user selected foam proportioning ratios of 0.5%, 1.0%, 3.0%, or 6.0%. Nozzle shall

be hard coat anodized aluminum alloy or brass. Nozzle shall include an industrial hard grade UV resistant 40 mm (1.5") concentrate pick-up hose with cam lock connection to the nozzle foam inlet and a UV resistant front rubber bumper and halo ring for pattern adjustment.

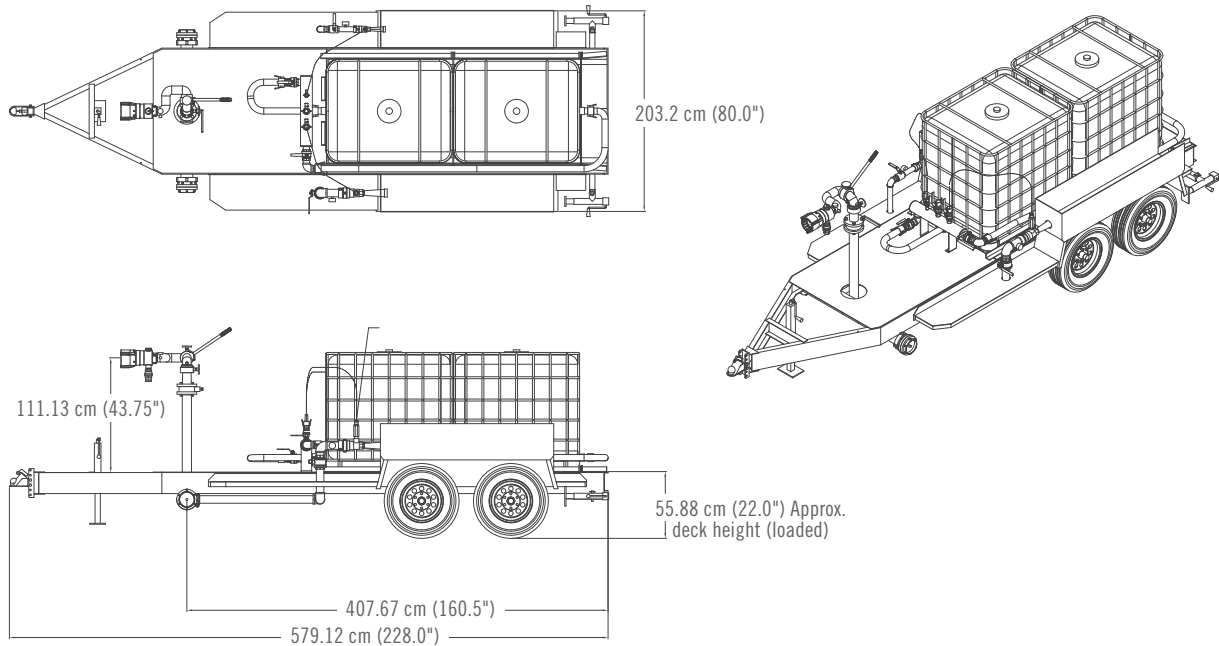
Finish

The trailer shall be prepared and finished with SOLBERG blue or red enamel finish.

Options

Contact SOLBERG Technical Services for options on monitors, hoses, and other trailer equipment.

Dimensional Information



Note: Dimensions are approximate and will vary depending on model and options selected at time of purchase. Drawings are conceptual and representative in nature.

Ordering Information

Contact Solberg Technical Services Department for options, pricing and delivery.



