

## Master Foam Tote-Trailer

### Features

- High volume foam storage
- High capacity flow
- Extremely mobile
- Rugged construction with tandem axle, electric brakes and two rear stabilization jacks
- 5,000 lb (2,268 kg) gross vehicle weight rated trailer meets DOT requirements
- Hose bins on each side
- Monitor with low friction-loss and 3 in. valve with position indicator
- 4 in. inlet piping with 2.5 in. wye connection on each side
- Master Foam self-educing nozzle – 350, 500, or 750 gpm (1,325, 1,893, or 2,839 Lpm)
- ANSULITE® AFFF storage tote is constructed of high density polyethylene and protected by a rigid welded galvanized tubular steel grid
- Quick tote hold down for easy tote transfer
- Dual totes are available

### Application

The ANSUL® Master Foam Tote-Trailer is designed to provide mobile fire protection for flammable liquid hazards typically found in such areas as refineries and associated tank farms, chemical processing plants, truck and rail car unloading facilities and marine terminals. The tote provides large capacity when compared to foam product in pails and drums. It is pre-piped to the monitor so it can be quickly placed into action. The ANSUL Master Foam Tote-Trailer substantially increases the fire fighting capabilities of industrial, municipal and military fire departments all in an economically priced package.

### Description

The ANSUL Master Foam Tote-Trailer consists of the following:

- A trailer assembly is constructed with frame, axle(s), wheels and tires designed to carry the gross weight of the trailer with associated equipment and foam concentrate. The trailer frame includes tongue jacks and rear swing down stabilization jacks, standing area with a non-slip surface, bed made of aluminum diamond plate and side rails on trailer deck for tote positioning.
- The standard ANSULITE AFFF storage tote concentrate is 265 gal (1,003 L) capacity constructed of high density polyethylene and protected by a rigid welded galvanized tubular steel grid.
- A completely packaged fixed Protector Station Monitor has a unique waterway with low friction loss and delivers water to the nozzle with fewer twists and turns than a conventional monitor. The built-in on/off valve with position indicator eliminates the need to add a costly valve to the monitor installation.



- The ANSUL Master Foam nozzle is an accurate and durable self-educing foam nozzle with superior stream quality and reach. This monitor nozzle is available in your choice of 350, 500 or 750 gpm at 100 psi (1,325, 1,893 or 2,839 Lpm at 7 bar). Fog angle is user adjustable between 120° wide fog and straight stream. The nozzle baffle is easily removed for flushing debris.

### Specifications

**Trailer Frame** – The trailer frame shall be constructed of structural steel meeting the requirements of either ASTM A-36 or ASTM A 500 Grade B. It shall be fabricated by welders qualified under Section IX of the ASME Code for groove or fillet welds. The trailer shall be equipped with ball hitch, adjustable tongue dolly with wheel and full light package for highway use.

**Axles** – The axles shall be rated a minimum of 2,500 lb (1,134 kg) load rating each. The axles shall consist of progressive torque action and independent wheel movement to provide maximum shock absorption and handling characteristics.

**Brakes** – The brakes shall be electric type brakes.

**Hose Bins** – Two, approximately 15 in. wide, 60 in. long, by 18 in. high (38 x 152 x 46 cm). Placed above the fenders.

**Tote Tank** – The tank shall be 265 gal (1,003 L). It shall be made of high density polyethylene, supported by a pressed galvanized steel base, and protected by a rigid, welded galvanized tubular steel grid.

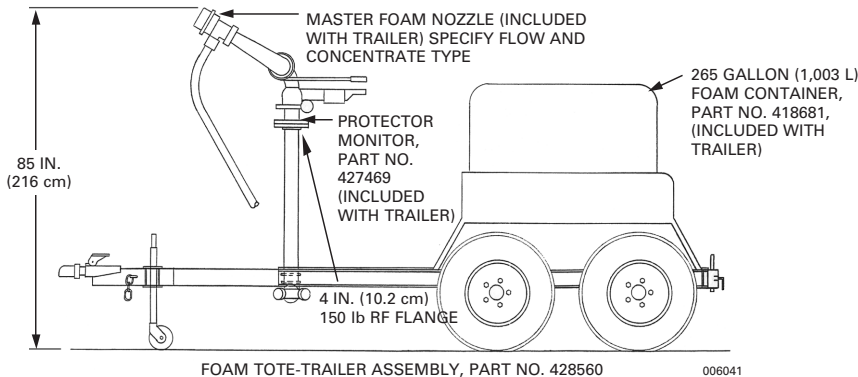
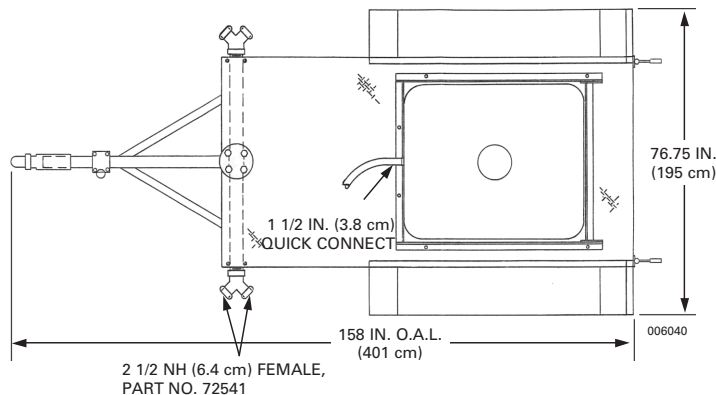
**Protector Station Monitor** – A built-in shut off valve shall be standard. The monitor shall be directly bolted to a common 4 in. pipe flange. The outlet shall be available with 2.5 in. male NH threads. A long stream-straightening vane in the discharge section reduces turbulence. The simple and basic design shall require no grease or other maintenance. Swiveling elements and seals (including valve seat) can be replaced in a few minutes with just one tool. Threaded ports (1/4 in. NPT) shall be provided for drain valve and pressure gauge installation.

## Specifications (Continued)

Maximum pressure shall be 250 psi (17.2 bar). The Protector is constructed of UNS A03560 alloy heat treated to T6 with poly-impregnation casting treatment. It is also hardcoat anodized per military specification MIL-A-8625F Type III, Class 1 and features polyester powder-coated outer surfaces inside and out. The swivel clamps, 3 in. valve ball, trunnions and hardware are 18-8 stainless steel. The swivel clamps, 3 in. valve ball, trunnions and hardware shall be 18-8 stainless steel. The monitor may be used to deliver water or foam streams. The Protector Station Monitor is recommended for use with ANSUL Master Stream nozzles and ANSUL Master Foam nozzles. The built-in valve shall indicate the flow is OFF when the valve handle is horizontal and ON when the handle is vertical. Parts shall be manufactured so that the valve cannot be assembled out of phase. A position indicator shows the valve positions as OFF or ON. The position that the valve is normally left in shall depend upon your particular standard operating procedure.

**Self-Educting Master Foam Nozzle** – The standard swivel coupling shall be 2.5 in. NH female threads. The simple flow geometry (patent pending) shall educt foam concentrate at .5%, 1%, 3%, or 6% with no small passages to clog. Percentage is easily set with an interchangeable orifice plate. A set of calibrated foam orifice plates shall be included. The nozzle shall be supplied with one orifice plate corresponding to the ANSULITE foam concentrate for which it is designed.

## Dimensional Information



APPROXIMATE WEIGHTS: EMPTY 1,550 lb (703.1 kg); FOAM 2,350 lb (1,066 kg)

Nozzle shall come with an industrial grade UV resistant, 8 ft (2.4 m) long, 1.5 in. (38 mm) diameter concentrate hose with a cam lock fitting for quick and secure attachment to the nozzle. The simple and basic design shall require no grease or other maintenance. The halo ring/stream shaper shall be made from non-corroding high temperature polymer. The rubber bumper shall be UV resistant. The Master Foam self-educting nozzle is constructed with UNS A03560 alloy heat treated to T6 and hard-coat anodized per military specification MIL-A-8625F Type III, Class 1.

**Options** – The model shown is the base unit. Contact Johnson Controls Technical Services for options on monitors, hoses and other trailer equipment along with price and delivery.

**Finish** – The complete proportioner foam trailer assembly shall be properly prepared and painted with a standard red paint system.

**Manufacturer** – The manufacturer of the ANSUL Master Foam Tote-Trailer shall have a minimum of 25 years experience in the manufacture and design of fire suppression systems and related fire equipment. The foam trailer and the foam concentrate shall be the products of the same manufacturer.

## Ordering Information

Contact Johnson Controls Foam Applications Engineering Department for price and delivery of Master Foam Tote-Trailer, specify Part No. 428560, and other options for trailers such as a Dual Tote-Trailer, alternate monitors, or additional hand line connection options.

**Note:** The converted metric values in this document are for dimensional reference only and do not reflect an actual measurement.

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