

Danko Mobile Draftmaster

2010 Fire Pump Testing and Training Unit Stock G-0002

(1) TRAILER

- A. One (1) Heavy Duty 7000lb. Tandem Axle Trailer.
- B. The trailer shall be 18-1/2 feet long without the folding tongue option.
- C. Trailer Undercarrage to be Steel Fabricated and Hot Dipped Galvanized.
- D. Two (2) 3,500 pound rubber tortion axles with grease buddies.
- E. Four (4) Electric Brakes with break-away pull switch..
- F. Four (4) ST205/75R15LRC Super Tires with Rims.
- G. Heavy Duty Tongue with Class Four 2" ball hitch w/safety tow chains.
- H. One (1), 7,000 lb. adjustable hand crank jack mounted at the front.
- I. Four (4), 10,000 lb. drop down adjustable stabilizers mounted two at the front and two at the rear.
- J. Brake tail-turn, back-up and ICC lighting Package – 7 pin plug on tongue.
- K. Two (2), Aluminum tread plate rear decks.

(2) WATER STORAGE TANK

- A. Life-time Polypropylene 2,600 Gallon Capacity Water Tank with baffles.
- B. Baffles designed to dissipate air bubbles from discharge before returning to fire pump intake.
- C. Upper center discharge tunnel.
- D. One (1) 2-1/2" overflow with 2-1/2" NH male adapter outlet.
- E. One (1) 1-1/2" check valve and quarter-turn fill valve inlet with 1-1/2" NH female swivel.
- F. Tank sump with 1-1/2" quarter-turn drain valve and 3" clean out plug.
- G. Two (2) tank openings 20"W x 20"L air outlets in the top of the tank to release the air and dissipate heat from the tank during fire pump discharge into the water diffuser in the discharge tunnel.

(3) REAR DISCHARGE INTAKE MANIFOLD

- A. One (1), 6" Diameter Horizontal Manifold to be located at the rear of the tank.
- B. The complete manifold shall be fabricated of 304 schedule stainless steel.
- C. The Manifold to have Five (5) inlets.
 - 1) Four (4), 2 1/2" NPT Male with 2 1/2" NH chrome inlet adapters, with four (4), 2-1/2" NH Male x 2-1/2" NH Female Swivel hand crank gate valves.
 - 2) One (1), 4" NPT discharge inlet with a 4" cap.
- D. One (1), 1/2" quarter turn brass valve for manifold drain.
- E. One (1), 6" Vertical water stream straightener built integral with a 4" discharge tube (capacity 2500 GPM)
- F. One (1), 4" dia. 10 gauge 90 degree elbow with a 4" x 3" reducer to the 3" NH discharge outlet.
- G. One (1), 4" Victaulic clamp to remove discharge elbow from 4" discharge tube.

(4) WATER DISCHARGE DIFFUSER

- A. Diffuser to be fabricated of steel and hot dipped galvanized. The diffuser to be mounted in the discharge tunnel at the rear of the tank. The diffuser to be designed to disperse the force of the discharge stream and atomize the water into small droplets so the water discharge creates a venture air flow to cool the water while in use. (NOTE: The cooling of the water will depend on the ambient temperature while flowing water.)

(5) TANK SUCTION OUTLETS

- A. Number (1) Suction Outlet - 6" Quarter-turn Disc Valve outlet with a manual control handle. The handle shall have an adjustable setting. The valve to have a 6" NH L.H. female swivel located on the lower left side of the tank.
- B. Number (2) Suction Outlet - 6" Quarter-turn Disc Valve outlet with a manual control handle. The handle shall have an adjustable setting. The valve to have a 6" NH L.H. female swivel located only on the lower right side of the tank.

(6) PUMP TEST CONTROLS & STORAGE CABINET

- A. One (1) aluminum treadbrite cabinet to be located on the right rear of the tank. The cabinet shall have two (2) vertical hinged doors, the doors to be double panel, stainless steel hinges, and stainless steel key locking door handle. This cabinet to be used for operator's gauges, test gauge hoses, discharge tips and hose adaptors.

(7) PUMP TEST PANEL

- A. One (1), 3 ½" liquid filled master pressure gauge (0 - 400 PSI). The gauge shall have a snubber valve and ¼" x 25' test gauge hose.
- B. One (1), 3 ½" liquid filled master exaggerated vacuum gauge (30 - 0 - 0 PSI). The gauge shall have a ¼" x 25' test gauge hose.
- C. One (1), 3 ½" liquid filled pitot pressure gauge with drain valve (0-180 PSI). The gauge shall have a snubber valve and ¼" x 12' test gauge hose.
- D. One (1) 4" dia. water temp. gauge 0-200 degrees installed in the operator's compartment.

(8) DISCHARGE OUTLET TEST EQUIPMENT

- A. One (1), 3" NH Female x 2 ½" NH Male tapered reducer adapter.
- B. B) One (1), Akron FK-25 2-1/2" NH Female Barrel test kit with a testing range of 250-1750 GPM. The kit shall come with an adjustable tube positioned in the waterway discharge for accurate GPM testing and include ¾", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/4" and 2-1/2 Bore Tips

(9) FIRE HOSE STORAGE RACK

- A. One (1), fire hose rack fabricated of steel and hot dip galvanized for corrosion resistance and mounted on the rear left side. The rack shall have a capacity to store four (4) 3" x 50' fire hose rolls and have an aluminum treadbrite enclosure with a horizontally hinged door and key locking latch. The hose rack shall be open from the bottom for air ventilation to dry the hose.

(10) REAR STEP

One (1), step platform shall be located at the rear of the tank on the right side. The step platform shall be fabricated of steel and covered with expanded metal and hot dip galvanized. The step shall be used to change nozzles on the pitot.

(11) FIRE HOSE ADAPTERS AND EQUIPMENT

- A. One (1), 5" F NH X 6" M NH Adapter with Screw Mounting Plate
- B. One (1), 4-1/2" F NH X 6" M NH Adapter with Screw Mounting Plate
- C. One (1), 4" F NH X 6" M NH Adapter with Screw Mounting Plate.
- D. One (1), 3" F NH X 6" M NH Adapter with Screw Mounting Plate.
- E. One (1), 3" M NH X 2-1/2" F NH Adapter with Screw Mounting Plate.
- F. Eight (2), 2-1/2" male NH mounting plates for the bore tips.
- G. One (1), Hydrant Spanner Wrench
- H. One (1), Heavy Duty Rubber Mallet

DANKO MOBILE DRAFTMASTER**OPTIONAL EQUIPMENT**

DESCRIPTION

- 11) **HEAVY DUTY FOLDING TONGUE**
The tongue to have folding hinge and pin to reduce length of the unit for storage. (*Length of trailer with folding tongue will be 15'.*)
- 12) **SPARE TIRE CARRIER BRACKET**
The spare tire bracket to be steel fabricated and located at the front of the tank.
- 13) **SPARE TIRE AND RIM**
One (1), 15" painted steel rim with a ST205/76R 15LRC tire.
- 14) **HARD SUCTION HOSE COMPARTMENT**
The compartment to be fabricated with 3/16" treadbrite aluminum and bolted to the left side rear of the water tank. The compartment shall have a aluminum treadbrite door with a stainless steel hinge and keyed lock. The compartment shall have a capacity of four (4), 6" Diameter X 10' long handle hard suction hoses
- 15) **HARD SUCTION HOSE** (*Indicate Quantities up to four.*)
Four (4), each Maxi-flex 6" Diameter x 10' Long hard suction hose with 6" NH long handle female swivel x 6" NH male pyrolite couplings
- 16) **ELECTRONIC FLOW METER**
One (1) flow meter adapter port built into 4" discharge tube after the diffuser with a Fire Research electronic paddlewheel sensor.

One (1), Fire Research digital readout electronic flowmeter with a capacity of 300-2500 GPM and an electronic digital pressure gauge located in the operators control compartment.
- 17) **DISCHARGE TEST EQUIPMENT** (*2,000-2500 GPM*)
One (1) Akron FK-30 3" NH Female test barrel with a permanent pitot tube positioned in waterway discharge for accurate GPM testing. (*Pump Test 2,000-2500 GPM*)

One (1), 3" mounting plate.

DANKO MOBILE DRAFTMASTER**OPTIONS TO ADD FOR PERSONNEL FIRE PUMP TRAINING***DESCRIPTION***A) (1) PUMP PERSONAL TRAINING OPERATIONAL PANEL**

An operator's control panel shall be fabricated of smooth aluminum and located in the right side rear compartment. The operator's panel door shall contain the electronic digital read-out controllers for the discharge valves on the rear intake manifold. The door shall have a stainless steel hinge on the bottom and to be fastened on top with stainless steel screws. The door shall be sprayed with black durable textured coating after fabrication.

(2) POWER OPERATED DISCHARGE INLET VALVE(s)

Four (4), 2-1/2" NPT quarter-turn ball valves with 2-1/2" NH Female chrome swivel adapters and 12-volt DC actuators shall be mounted on the rear manifold in lieu of the 2-1/2" chrome adapter and the 2-1/2" hand crank gate valve on each discharge intake.

Each valve shall have an electronic digital read-out controller mounted in the Draftmaster control panel.

(3) POWER OPERATED SUCTION OUTLET(s) TO FIRE PUMP

Two (2), 12-Volt DC electric actuators shall be mounted on the 6" wafer valves in lieu of the manual control handles. An electronic digital read-out controller shall be mounted in the Draftmaster Control Panel.