



DANKO Industrial Redi-CAFS Response Unit
WATER · FOAM · HI-ENERGY CAFS



OPERATION and INSTRUCTION MANUAL

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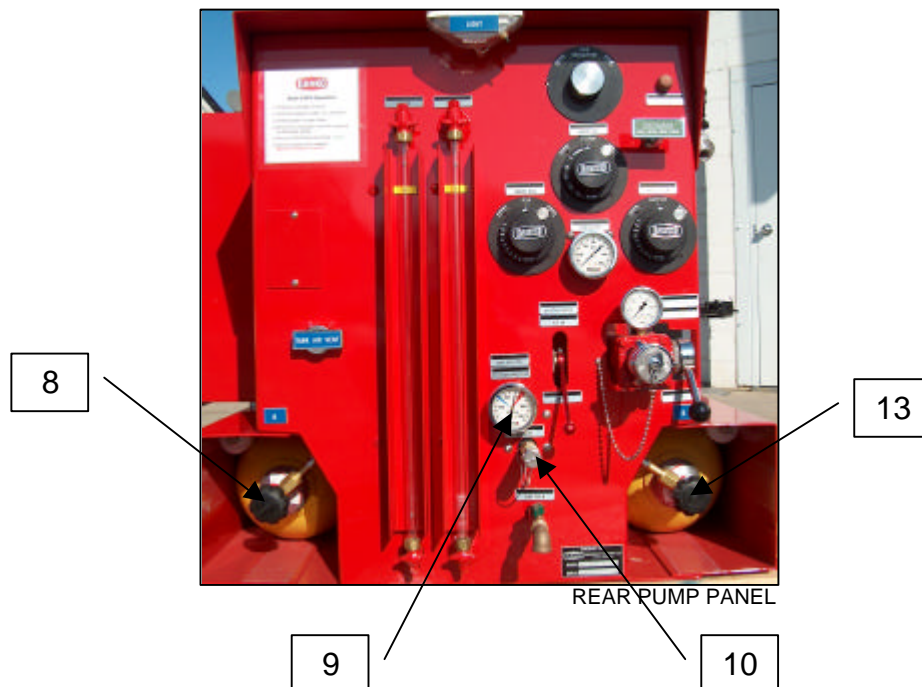
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AIR CYLINDER RECHARGE

NOTE: Air cylinders are connected together with a high-pressure hose from each cylinder to a manifold, so they can be refilled simultaneously from the single air fill inlet.

- STEP 1: Remove air inlet high-pressure cap (Number 10) located next to the high pressure gauge (Number 9) on the operator's panel. The cap should be slightly tight, using a 1-1/16" end wrench loosen the cap and remove.
- STEP 2: Attach the air filler line hose from a high-pressure air compressor to the inlet (Number 10), and tighten with wrench.
- STEP 3: Open air cylinder valves A (Number 8) and B (Number 13)
- STEP 4: Fill air cylinders (Number 8 and 13) to a maximum of 4500 PSI as indicated by the cylinder pressure gauge (Number 9) or when the gauge reading is in the red zone.
- STEP 5: After the cylinders are filled with air to 4500 PSI, close the air cylinders A (Number 8) and B (Number 13).
- STEP 6: Remove the airline hose from the air inlet (Number 10), and attach the high-pressure air cap; tighten slightly with the wrench so air may not escape if check valve to manifold leaks air.

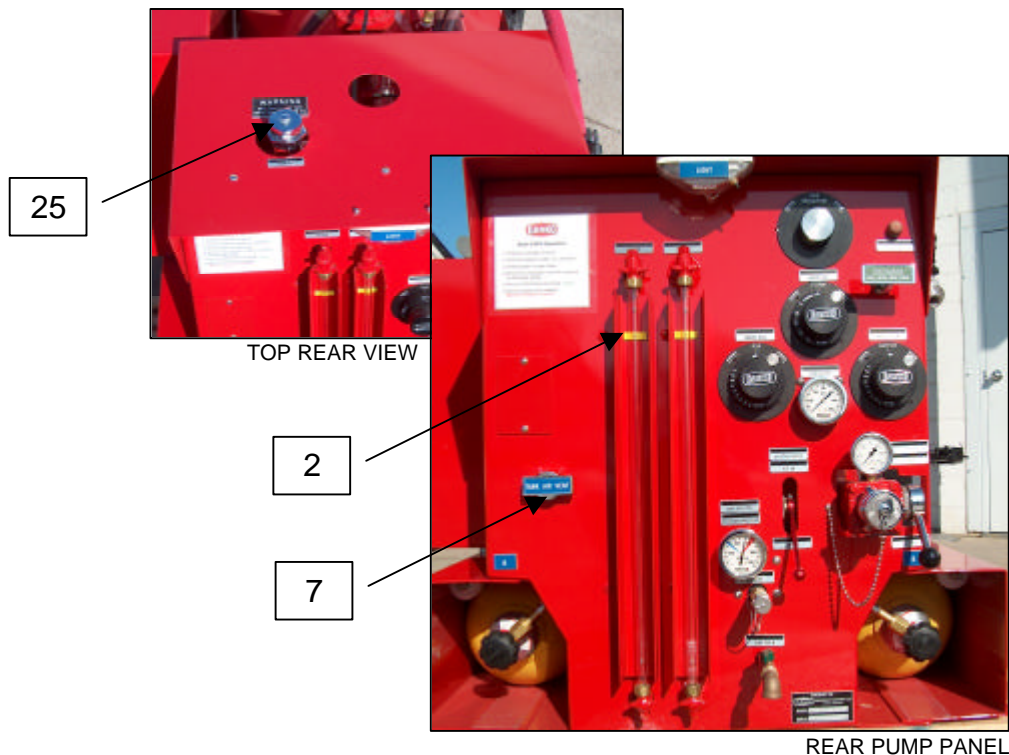


FILL FOAM TANK

NOTE: Fill the foam tank with biodegradable AFFF foam.

NOTE: Foam tank cannot be refilled while in operation or when the system is charged with air.

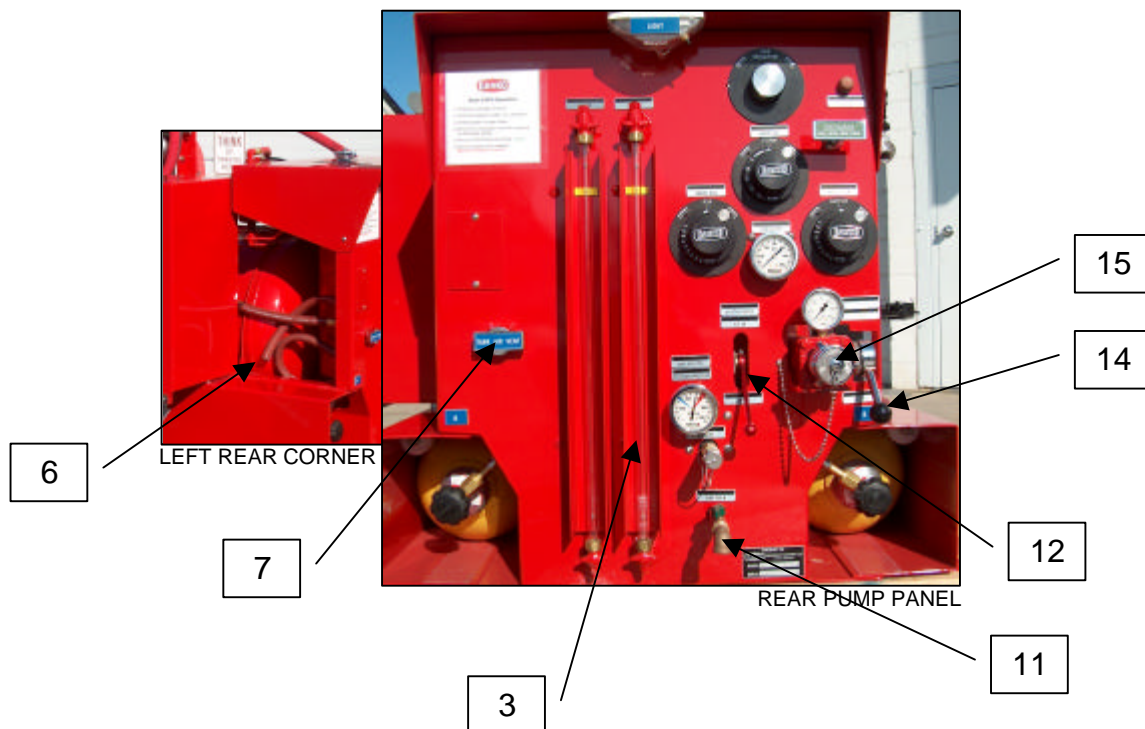
- STEP 1: Check that the system charge valve is closed (Number 12) before proceeding.
- STEP 2: Open tank air vent valve (Number 7) to release the air pressure in water and foam tank.
- STEP 3: Remove foam fill cap (Number 25) with a fire department spanner wrench. If any air is remaining in the foam tank, air will be coming from the slot machined in the threads of the fill neck adaptor. If the vent valve (Number 7) is open, the foam tank should not be pressurized.
- STEP 4: Use a fill funnel with a long neck if possible, to fill the tank. This will prevent the foam from foaming out of the top filler neck, while pouring foam into the tank or a hand liquid transfer pump. Fill the tank to the full label (Number 2) located behind the visual sight gauge, approximately 5-gallons of foam.
- STEP 5: Attach the foam fill cap (Number 25) and tighten with a spanner wrench.
- STEP 6: Close the tank air vent valve (Number 7).



FILL WATER TANK

NOTE: Water tank cannot be refilled while in operation or when the system is charged with air.

- STEP 1: Check that the system charge valve is closed (Number 12) before proceeding.
- STEP 2: Open the tank air vent valve (Number 7) to release any air pressure that may be in the water tank.
- STEP 3: Remove the 1 ½" NST tank fill plug (Number 15) from the 1-1/2" NST female swivel with a spanner wrench.
- STEP 4: Close the water tank drain valve (Number 11) if it has been opened.
- STEP 5: Connect 1 ½" NST fire hose to the 1 ½" NST female swivel (Number 13) on the water inlet and fill from a water pressure source.
- STEP 6: Slowly lift up the handle (Number 14) on the valve to open water flow to the tank.
- STEP 7: Fill with water until the sight gauge (Number 3) reads full or the water is running out of the vent valve hose (Number 6) under the unit, from its installed location.
- STEP 8: Close the tank air vent valve (Number 7).

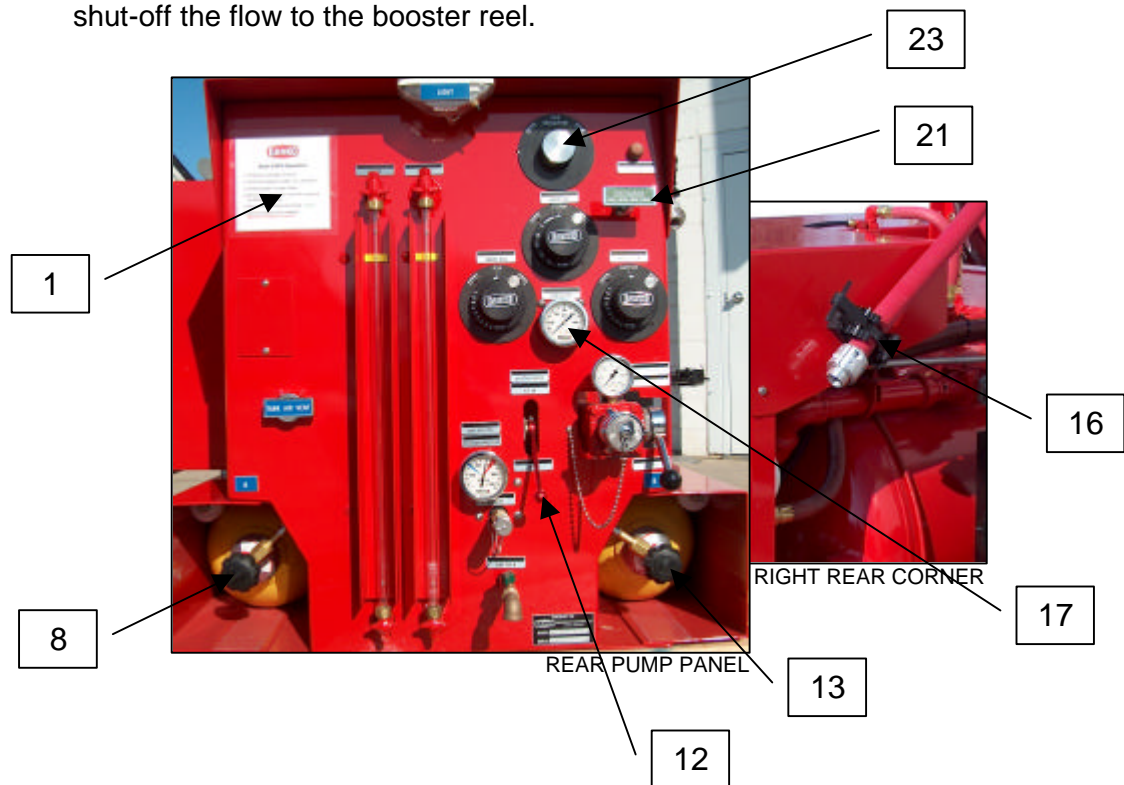


DANKO REDI-CAFS SYSTEM OPERATION

NOTE: For booster reel operation recommend use of a straight bore nozzle (3/4" or 1" bore).

*** See the instruction plaque for quick reference as well (Number 1).**

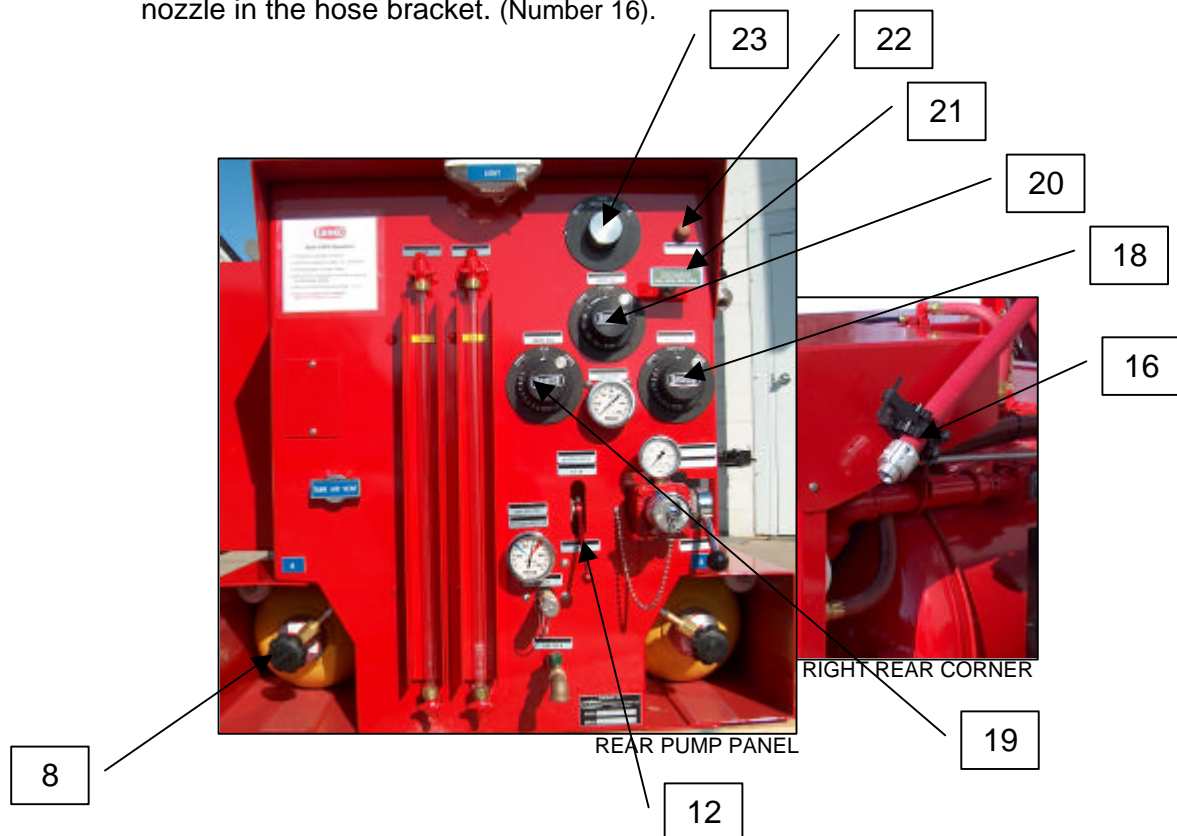
- STEP 1: Check the settings of the water, foam, and air metering valves as per the labels.
- STEP 2: Open cylinders marked A (Number 8) and B (Number 13) fully open.
- STEP 3: Lift up the air charge handle (Number 12) to charge the system with air.
- STEP 4: Turn the step-down air regulator knob (Number 23) to the right to increase the air pressure to read 50 lbs. on the pressure gauge (Number 17).
- STEP 5: Release the nozzle and hose from the bracket (Number 16) on the right side of the panel cover. Pull out the hose from the booster reel as necessary for operation.
- STEP 6: Slowly pull open the discharge valve (Number 21) to release the high-energy foam from the system to the booster reel hose and nozzle.
- STEP 7: Slowly open the shut off valve on the nozzle and direct the high-energy foam to the source of application.
- STEP 8: To increase the discharge pressure to the nozzle, turn the air regulator knob (Number 23) to the right, to a maximum of 80 PSI while discharging the high-energy foam. When the nozzle is closed on the hose reel or the 1-1/2" preconnect line the discharge gauge (Number 17) may increase to 120-130 PSI when the nozzle is opened and CAFS is discharging, the pressure will reduce back to 80 PSI.
- STEP 9: After foam application is complete, close the discharge valve (Number 21) to shut-off the flow to the booster reel.



FOAM FLUSHING OPERATION

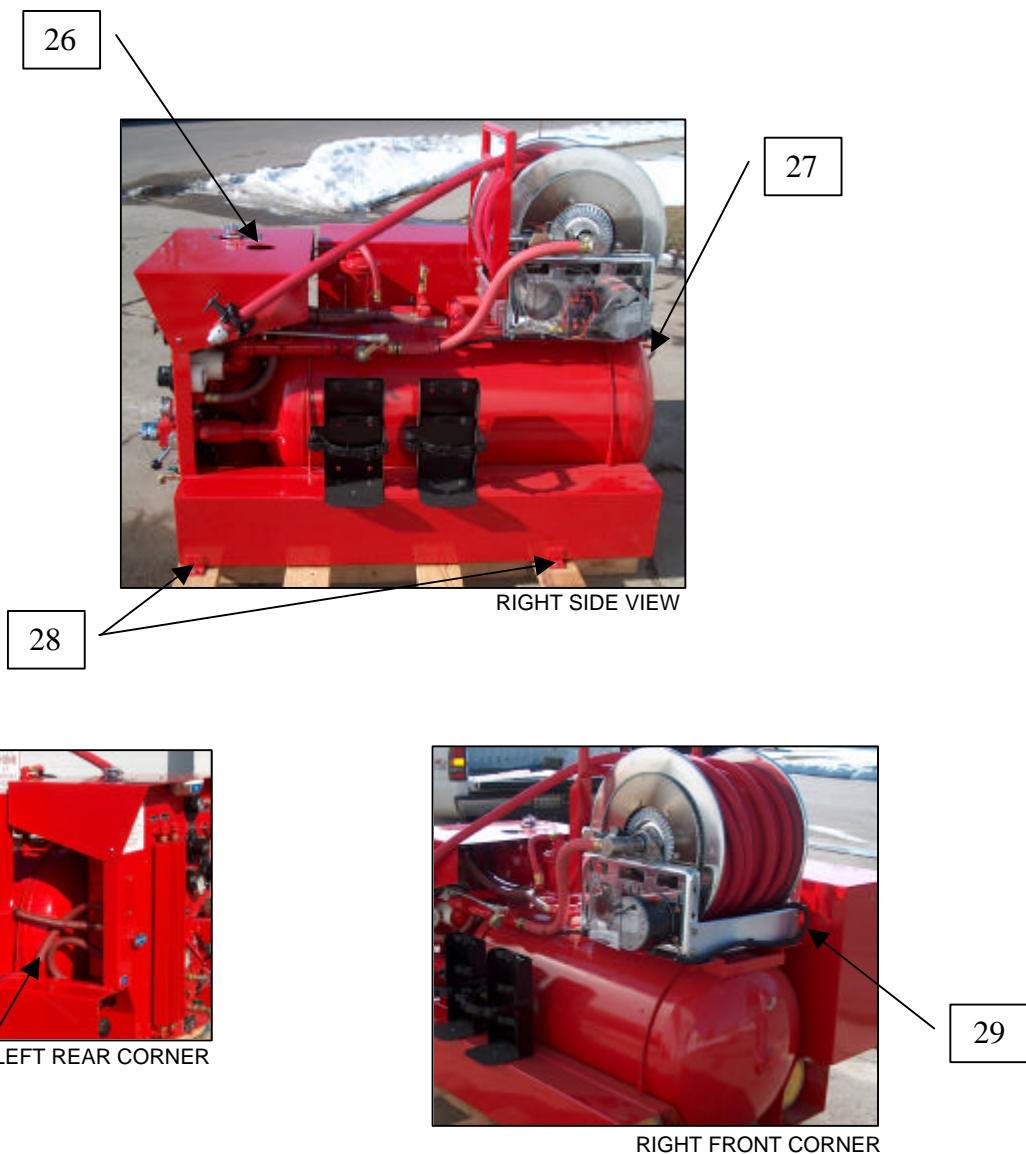
NOTE: If there is water remaining in the tank after use.

- STEP 1: Turn the foam-metering knob (Number 20) to the off position
- STEP 2: Turn the air-metering knob (Number 19) to the off position
- STEP 3: Turn the water-metering knob (Number 18) to the full open position.
- STEP 4: Slowly open the select discharge valve handle (Number 21).
- STEP 5: Turn the air regulator knob (Number 23) to the right to increase the pressure to max 80 PSI. Only water will flow out of the hose and nozzle to flush out the system. Continue flushing until foam is no longer present.
- STEP 6: Push down and close the air charge valve (Number 12) while discharging the water. The air in the water tank will then keep flowing as water is discharged from the tank. This will reduce the air pressure in the water tank and conserve the air in the cylinders.
- STEP 7: After the system has been completely flushed, close all discharge valve(s) closed (Number 21) to shut-off the flow to any discharge.
- STEP 8: Close the air cylinders marked A (Number 8) and B (Number 13).
- STEP 9: Rewind the booster reel hose by pushing the electric rewind button (Number 22) and guiding the hose on until completely rewound and secure the hose nozzle in the hose bracket. (Number 16).



MOUNTING

- STEP 1: Remove the bolts to remove the system from the shipping pallet.
- STEP 2: Attach one end of the chain to the front water tank eyelet (*located through the hole on top of the panel; Number 26*) and the other end the rear water tank eyelet (Number 27) to lift and place on the permanent mounting base.
- STEP 3: Attach the system to the permanent mounting base using the mounting tabs (Number 28), two on each side of the unit.
- STEP 4: Relocate the vent valve hose (*overflow hose; Number 6*) to empty through the base floor or in the most convenient location.
- STEP 5: Connect the 12-Volt Wiring loom (Number 29) to the battery, red to positive and black to ground.



MISCELLANEOUS FEATURES

NIGHT-TIME OPERATION: An operators panel light is located on top of the panel with a switch located on right side of the light for easy access.



