

S E C R E T

HEADQUARTERS
2017TH ENGINEER AVIATION FIRE FIGHTING PLATOON
AAF STATION 375
APO 557, US ARMY

3 January 1945

SUBJECT: Unit History Report.

TO : PRO, AAF Station 375, APO 557, U S Army.

1. About one week after Lt Bohman, 2/Sgt Walters, and Sgt Patmor returned from the Fighting school, at Bassingbourne, the Cardox Crash Truck arrived at this station. It went to Third Echelon Shop first for a complete check-up before being turned over to the Fire Department.

2. It is, by far, the largest piece of equipment used by the Fire Department. Fully loaded, with 3 tons of CO2 and 3 hundred gallons of pre-mixed foam, it weighs 22 tons. For discharging CO2 it has a Boom Nozzle which discharges at the rate of 2500 lbs per minute, a Front Nozzle and Ground Sweep that discharge CO2 at the rate of 1250 lbs per minute. Besides these there are two hand lines, with 100 feet of hose which discharge 750 lbs of CO2 per minute, and two injection nozzles which discharge 65 lbs of CO2 per minute. Foam is discharged through nozzles attached to Boom, Front, and Ground Sweep Nozzles discharging 20, 35, 24 gallons of Foam respectively. Besides these there are two hand lines which discharge Foam at the rate of 30 gallons each per minute.

3. The truck is equipped with its own refrigeration unit so that the CO2 can be kept at a constant temperature, thus permitting storage in a comparatively light tank. Mounted on the truck is an all steel tank designed for a working pressure of 310 lbs per sq in. Liquid CO2 is stored and maintained at a pressure of between 290 and 300 lbs per sq in. The tank is enclosed by a 6 inch covering of cork insulation to retard the absorption of heat by the cold CO2. The cork is housed by the sheet metal body of the truck. Various safety devices for relieving excess pressure of CO2 are also installed. A spring loaded diaphragm valve is set at 330 lbs pressure, and two more valves are set at 341 lbs pressure. A frangible disc valve is set at 600 lbs pressure which is only 20 lbs below tested pressure of the tank.

4. The water tank is a cylindrical, all-welded, steel tank mounted crosswise of the frame at the rear of the truck. It is rated at a working pressure of 125 lbs per sq in. A safety valve on the top of the tank is set at 137 lbs pressure and will relieve any pressure going above that point.

Harry A. Bohman
HARRY A. BOHMAN,
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