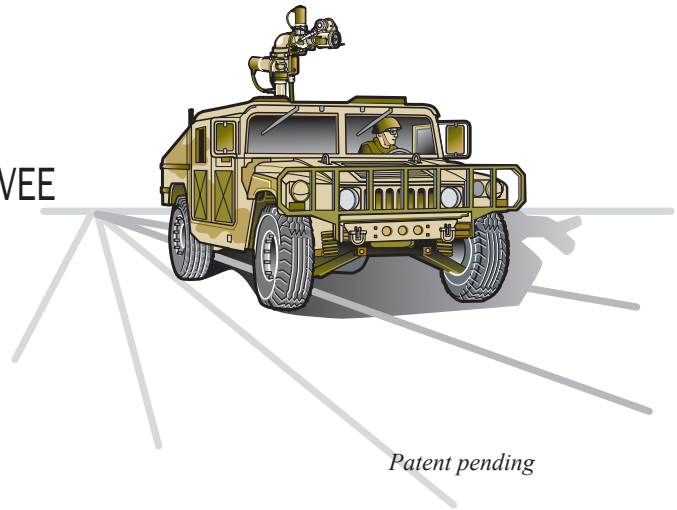


WRS HUM-VEE (HMMWV)



PRELIMINARY

- Emergency riot/crowd control
- New X-Stream nozzle
- Compact yet powerful design
- Fits in rear compartment of the HUM-VEE
- Automatic water stream adjustment
- Automatic nozzle position control
- Dynamic chemical injection control



Description

Using state-of-the-art pumping and nozzle systems and WRS X-Stream technology we have developed a compact, yet powerful, Water Restraint System (WRS) designed to fit in the rear compartment of the HUM-VEE, Models 998A2 or 1097A2. The Compact WRS (CWRS) is a completely self-contained system that provides all major chemical delivery features of the larger stationary WRS X-Stream (The Big Stick), yet can be “dropped” into the rear compartment of the HUM-VEE. Power is provided by the vehicle electrical system. The unit includes a 120-gallon water tank. Additional water supply can be provided from a water buffalo or water wagon towed behind the HUM-VEE. The CWRS includes a transfer pump which can be used for refilling the self-contained water tank (automatic transfer) from a towed water wagon or refilled from local water sources.

The specially designed valve and nozzle system will accept dirty water in the same way as a fire truck pumping system. Therefore, you don't

have to be concerned if you must refill from an unclean water source in the field. There are NO diaphragm or pilot valves to clog or freeze. If the system becomes dirty, the piping system can easily be flushed. All valves and nozzles are field repairable.

The CWRS produces a powerful water/chemical stream that can deliver chemicals up to 140 feet. The delivery is pulsed, conserving water and allowing more shots before refilling. The self-contained tank can provide up to 80 1-1/2-gallon chemical shots. The chemical is specially formulated to provide high strength Oleoresin Capsicum (pepper spray) chemical delivery in each shot. Additional shooting can be available by adding a towable water tank.

The CRS weighs approximately 1,500 lbs. when unfilled and approximately 2,500 pounds when the water tank is full. The total weight of 2,500 pounds is well within the 4,400 pound design payload of the HUM-VEE, Model M998A2.

Specifications

Size:

Tank: 42 inches by 50 inches
 Fits into cargo area
 Platform: 42 inches by 84 inches
 Fits on HUM-VEE rear deck
 Height: 60 inches (tank bottom to top of nozzle)
 Water tank: 120 gallons
 Chemical tank: 30 gallons
 Weight: 1,500 lbs. (empty)

Power Requirements:

24VDC
 2 amperes standby
 50 amperes starting
 7 amperes running
 10 amperes shooting

Chemical Injection:

.2% to 1.5% Capsaicins (pepper spray concentrate)
 Software adjustable

Power Plant:

15 HP turbo-charged diesel-powered closed impeller pump
 Provides 120 gallons per minute @125 psi.
 Automatic electric start
 Block heater

Enclosure:

Cold rolled steel, 16-gauge
 All seams welded
 Galvanized and painted

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