

Technical Safety Data Sheet

Equipment Name: Closed Loop Wash Rack (Hydroblaster)

Manufacturer: Hydro Engineering, Inc.

Address

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The photograph will be provided by NAWC, Lakehurst.

Equipment Description: A hand-held spray gun is used to wash support equipment (tractors, carts, and dollies, etc.) using a high pressure (0 to 2000 psi) water stream. The system consists of a stainless steel enclosure (cover plate, coil wrap, skirt panels, hinged pump and motor housing, electrical enclosure, and control panel), burner, hose, hand-held spray gun, and filtration system. A burner is used to provide hot water (200 °F) to a hand-held spray gun through a 50 ft high pressure hose. Natural or LP gas is used to fuel the burner. The gun is equipped with flow control knob for discharging hot water and cleaning fluid. The wash water is collected and cycled through a complex filtration system.

Precautions for Safe Handling and Use:

Operation

Perform an equipment safety inspection prior to equipment operation to ensure all connections are tight and hoses are not deteriorated or damaged. Replace the wand if it is leaking, bent, or cracked.

Make sure all electrical leads, connections, cords, boxes, and switches in the wash area are waterproof and/or deenergized.

Ensure the spray nozzle is set to the “minimum flow” position prior to starting wash operations.

Do not eat, drink or smoke while operating this equipment.

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Wear personal protective equipment during the operation. See Control Measures section for description.

If the burner fails to ignite, turn the system off, reset lockout device(s), then retry. Do not retry ignition more than once. Allow at least 10 minutes for any accumulated combustible vapors to dissipate before retrying.

Never stand in water while operating or cleaning electrically powered equipment.

Do not operate this equipment within 100 feet of combustible materials.

Grasp spray gun and wand firmly during the equipment operation.

Ensure the spray gun is aimed in a safe direction (away from personnel or equipment) before starting operation. Pressurized water can cause severe personal injury or equipment damage.

During operation, care must be taken not to inhale or ingest water or water vapor.

Do not leave the equipment running without an operator in attendance.

Trigger spray gun after turning off the equipment to release residual pressure.

Review Operation and Maintenance Manual, Hydroblasters High Pressure Washing Equipment, Model # 4/2000EHGV, Hydro Engineering, Inc. , January 1994 before operating this equipment.

Maintenance:

Bleed off pressure lines and shut off the electrical power before performing any maintenance or repair work.

Fluid leaks or overheating of the pump must not be checked by placing a hand directly on the components. Use a piece of cardboard to check for leaks. Heat can be detected near a component without physically touching it.

Installation:

All electrically powered equipment must be grounded.

Blasting should be conducted on a non-skid surface to prevent slipping.

The operating area must be well ventilated and the system provided with an adequate combustion air source and exhaust stack.

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Direct the stack exhaust away from building ventilation fans, so that combustion products cannot be returned into the building.

Health Hazard Data

Chemical Hazard: Chemical Hazard (Buccaneer Cleaning Solution):

Routes of Entry: Eyes and Ingestion.

(Acute) Health Hazard: None stated.

Eyes: Contact with eye may cause irritation

Ingestion: Swallowing may cause gastrointestinal disorders.

For additional, detailed information on Buccaneer Cleaning Solution, see Material Safety Data Sheet (MSDS).

Physical Hazard: The flow control knob on the hand held spray gun is not labeled as to which direction increases or decreases flow. The operator could experience significant recoil and possible injury if pressure is inadvertently set to maximum flow, especially at the beginning of the spray operation. Blasting is conducted on a cement surface, creating a slip hazard for the operator.

Biological Hazard: None observed

Ergonomic Hazard: None observed

Environmental Hazard: None observed

Control Measures

Ventilation: Required if the equipment is operated indoors.

Eye Protection: Wear safety glasses or face mask to protect eyes from flying debris.

Protective Gloves: Wear butyl rubber gloves to aid in gripping the gun.

Protective Clothing: Wear hooded water resistant coveralls.

Posting Requirements: Signs for “personal protective equipment requirements” and “no unauthorized personnel allowed” should be posted in the operating area.