

## Heavy Equipment Wash Station

Model PW2WC2-1842 Two Station One Lane Wash Bay  
(military vehicle tactical decontamination station)

### System Description

#### The Wash Lane

- **Wash pad**
  - Non skid smooth surface, no trip hazards
  - Deck height
  - Low angle, 3 degree ramps at both entrance and exit
  - 90 ton capacity, 3 times higher than undulating portable racks
- **Automatic mud conveyor dumps mud into portable hopper**
  - Stainless steel wedge wire vacuum filter leaves solids behind (*patent pending*)
  - *Only available from Riveer*
- **2 hot water pressure washers with 75 GPM flush to side walls**
- **2 foam guns with 75 GPM flush to side walls**
- **2 water cannons with 75 GPM on reels mounted flush to side walls**
  - *Only available from Riveer*
  - *All reel cabinets are heated for all-weather operation*
- **Push button controls in ruggedized NEMA 4 enclosures**

Model PW2WC2-1842 can be purchased without walls, and the wash pad gives ample room for users on the rack. The non-skid flat (not undulating) surface provides the users with a safe and comfortable deck to work on.

Model PW2WC2-1842 filtration equipment and pressure washers installed in all-weather enclosure.



Marine Corps, (CIBRF) with conveyor (left side). Drive thru configuration  
Filtration equipment and pressure washer installed in all-weather enclosure  
Rack installed on slightly improved surface

## The Wash Station

- 40' x 70' x 10' E  
  - Heated, air conditioned and dehumidified
  - Tough Cor-Ten steel walls painted to customer spec
  - Aluminum interior walls
  - Aluminum diamond tread plate floors
  - Stackable
  - Transport with crane or forklift
  - Meets all DoD transportation specs
  - Automatic lights
  - Lockable



Hardened Wash Bay enclosure with air conditioning, heat and custom desert air filter, painted Air Force grey

- Riveer Cyclonator® III all stainless steel filtration system with:

- Internal conveyor dumps settled fines into portable hopper
- Oil coalescing and automatic oil skimmer
- Bioreactor with automatic pH adjust
  - 24/7 air injection
    - Patented fine bubble technology
  - Automatic injection of oil eating bacteria
    - 16 oz per day injector
    - 2 month reservoir
      - 1 year supply provided in overseas deployment kit
- 24/7 ozone injection
  - Injects ozone in holding tank to kill hazardous bacteria

*Manual changeover allows system to change over to ozone only for specific applications where bacteria don't perform well.*

- 2 high pressure multi-media filters to remove:
  - Emulsified oil
  - Heavy metals

- Suspended solids
- Automatic back wash and capture of solids
  - No filters to change
- Flow rate of 80 GPM
- 1000 gallon water storage tank for continuous operations in remote locations
- 2 Edson diaphragm recovery pumps
  - Run pumps dry without damage
  - Suction pump recovers all water from rack
  - No sump pumps to clog and fail
- Allan Bradley PLC controls for all filtration systems and washers
- Optional communications package allows remote monitoring/control of all motors and timers
- Meets all US and CE electric standards; UL, TUV, IEC, NEC, NFPA



Cyclonator®III in hardened enclosure

- Built in wash systems:

- 2 each 3000 PSI 5 GPM hot water pressure washers
  - Diesel or JP-8
- 2 each air injected high velocity foamers with trigger gun controls
- 2 each 125 PSI @25 GPM water cannons with Darley guns



Riveer water cannon

- All guns on self winding reels with 75' ~~17~~
- All pumps auto start/stop with over rides
- All systems in and out of container protected from freezing
  - Includes heated reel and gun locker on rack



4 hot water pressure washers in hardened enclosure

### Overseas Deployment Package

- |                                 |            |
|---------------------------------|------------|
| ● Recovery pump                 | 1 ea       |
| ● Filter pump                   | 1 ea       |
| ● Pressure washer pump          | 1 ea       |
| ● Air compressor                | 1 ea       |
| ● Automatic air valves          | 2 ea       |
| ● High pressure hose            | 2 ea 75' • |
| ● Water cannon hose             | 2 ea 75' • |
| ● Foamer hose                   | 2 ea 75' • |
| ● High pressure guns and lances | 4 ea       |
| ● Water cannon guns             | 2 ea       |

- Foamer guns 2 ea
- Multi-media pack 2 each
- Coalescing cubes 4 ea
- Oil skimmer belt 1 ea
- Bacteria 18ea 5 gallon buckets
- Mil Spec soap 10ea 5 gallon buckets

Spares kit comes in lockable cabinet integral to HEWS enclosure.

## Optional Equipment

- Automatic undercarriage rinse and wheel wash
  - 30 high flow nozzles sequenced to flush complete undercarriage and wheels
  - Momentary on switch controls sequence
- Remote monitoring
  - Internet access and monitoring of all parameters including:
    - Pump operations
    - Water levels
    - Input and output status
    - Timer values
  - Allows for remote trouble shooting and programming
- Optional wash rack enclosure with heat
  - ~~■~~
  - Canvas over steel construction
  - Convection heat
  - End closure flaps
- Skid steer side trough instead of conveyor (patent pending)
  - ~~■~~
  - Provides 900 gallons of additional settling volume
  - Holds 4.5 cubic yards of solids
- Onsite installation and training
  - Riveer personnel install your equipment and train your personnel in operation and maintenance at your site, worldwide
  - Follow-up training on a quarterly or bi-yearly basis to keep your personnel up to date and your equipment operating to spec