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Equipment specifications

WATERCRAFT DECON UNIT (AIS) ROYCE-TRV-AIS TRAILER

TYPE:

Hot water, high pressure, gasoline powered, stationary washer. Machine shall be capable of operating on fresh water. The machine shall be fully automatic with appropriate safety controls. This machine is ETL listed. Must conform to UL standard 1776 for pressure washers. All equipment built in an ISO-9001; 2008 registered factory.

GENERAL SPECIFICATIONS:

Discharge	4.7 GPM
Pressure	3500 PSI
Pump RPM	1360
Engine	660 cc Electric Start Honda
Generator	2000 Watts
BTU	450,000

ENGINE:

The V-Twin, OHV, 4-stroke gasoline engine comes with a twin-barrel carburetor, air oil cooler, transistorized magneto ignition system and a 17 amp charging system. It clears strict CARB and EPA emissions regulations.

HIGH PRESSURE PUMP:

Pump is Landa brand tri-plex with ceramic plunger, oil bath crankcase with forged brass head, rated 3500 PSI (241 bar). Pump equipped with U-seals with temp rating of 185°F. Pump will be fed by a 110v 5 gpm feed pump.

GENERATOR:

2000 watt, rated AC amps 33.3 / 16.7 volts 120 / 4-20 amp 120v nema 5-20 R3600 rpm.

UNLOADER VALVE:

The pressure washer shall be equipped with a pressure trapping unloader valve rated for 4000 PSI (275 bar) and 7.8 GPM (30 lpm).

DRIVES/PUMPS:

Belt drive system with cast iron pulley and adjustment bolts for proper belt tension and alignment. All belts to be covered by safety machine cover. All belts to be of notched design for maximum performance.

PUMP RAILS

Landa brand tru-track, 10 ga. steel; all welds are per ASTM welding standards, polyester powder coated paint for maximum corrosion resistance.

CONTROLS:

Machine shall have control panel with the following:

- Hour meter with tachometer and service monitor.
- Control panel can be relocated easily, from end to side of machine, to meet operator preference
- Lexan operating instructions and safety information in English, French and Spanish, attached by a high strength adhesive.
- Burner control switches.
- Adjustable thermostat
- Metered detergent valve
- Low fuel burner shut-off switch
- Engine choke
- Engine start-stop

HEATING COIL:

Schedule 80 A53 cold formed DuraCoil, with a material thickness of .147" (4 mm), overall length 110 ft. (34 m), pipe dimension .840" OD (21 mm), .546" ID (14 mm). Welding done to ASME standards. The heating coil shall be covered by an aluminized steel inner wrap and insulated with fiberfrax ceramic blanket, No. 6 density, 1" (3 cm) thick. Outer wrap of heating coil to be constructed of stainless steel.

SHUR-TEMP (Customized for Aquatic Invasive Species)

Shall be equipped with a device that maintains the operators set/determined temperatures at +/- 3 Degrees Fahrenheit.

BURNER ASSEMBLY:

Continuous heating coil type, diesel/kerosene fired. TYPE: Class 6421 01 - fuel burning equipment (oil) - units - commercial/industrial. Forced air, automatic ignition, of sufficient capacity to provide 150°F (66°C) temperature rise. Burner fuel pump shall be equipped with safety fuel solenoid and regulator for safety and fuel pressure adjustment.

FUEL FILTER WATER SEPARATOR:

The burner shall be equipped with a replacement element type fuel filter/ water separator with visual check and drain provision.

HIGH TEMPERATURE CONTROL:

Shall be of the adjustable thermostat type located at discharge of coil with an operating temperature setting at 86°-302°F (30°-150°C). This safety control shall only control the fuel solenoid, not the burner assembly, for safety and dependability.

RUPTURE DISK:

A rupture disk shall be located at the discharge port of the coil for over pressurization protection.

SAFETY FLOW SWITCH:

Shall be located on cold water side of heating coil to prevent thermal damage. This safety switch shall be hermetically sealed to prevent moisture damage.

WATER SUPPLY SYSTEM:

Reinforced polyethylene water tanks with automatic float shut-off valve shall be permanently mounted to machine to supply water to high pressure pump. A mesh in-line filter shall be installed to adequately protect the high pressure pump.

EASY!Force TRIGGER GUNS Patent Pending:

Insulated safety shut-off spray gun supplied shall include ergonomic technology and be rated at 10.5 GPM (40 lpm), 5000 PSI (345 bar), and 300°F (149°C). Constructed from fiber-glass-reinforced polyester with brass and stainless valves and seats.

WANDS:

A 42" (107 cm) angled stainless steel wand with built-in variable pressure control valve. Insulated grab handle and wand for operator protection.

HOSES:

All hoses shall be 3/8" ID x 100' R2 double steel braid type meeting or exceeding SAE100R2 performance specification. Hose ends shall be equipped with swedge and safety protection collars; 24" on operator gun side. Rated at 5800 PSI at 275°F.

HOSE REELS:

Two hose reels shall be supplied. Heavy gauge construction, gloss powder coat, high pressure double swivel seals; one for high pressure and one for low pressure.

NOZZLES:

As required by UMPS's III (Uniform Minimum Protocols and Standards) the appropriate, white color, identifiable high pressure nozzles for single spray gun operation shall be supplied at 40° flat spray pattern. The nozzles shall be of a hardened 420 stainless steel material, with an interlock coupler nipple made of annealed 303 stainless steel with 80 Rockwell hardness rating.

CONNECTIONS:

Quick coupler with stainless steel support balls, 4,000 PSI rated.

AQUATIC INVASIVE SPECIES DECON TOOLS

1= Thru Hull Device, Insulated w/ AIS-QC
Part # ROYCE-AIS-001

1= Under Hull Device, 4 Nozzle w/ AIS-QC
Part # ROYCE-AIS-003

1= Water Craft Diffuser w/ AIS-QC
Part # ROYCE-AIS-005

1= Personal Watercraft Tool, Female w/ AIS-QC
Part # ROYCE-AIS-007

1= Personal Watercraft Tool, Male w/ AIS-QC
Part # ROYCE-AIS-009

1= AIS Flush, Inboard Hi-Temp
Part # ROYCE-AIS-011

1= AIS Flush, Pro Hi-Temp
Part # ROYCE-AIS-013

1= Muffs, Rectangle Hi-Temp
Part # ROYCE-AIS-015

1= Muffs, Round Hi-Temp
Part # ROYCE-AIS-017

1= Muffs, Volvo-Penta Hi-Temp
Part # ROYCE-AIS-019

1= Muffs, Mercury Hi-Temp
Part # ROYCE-AIS-021

1= Muffs, Dual Feed Hi-Temp
Part # ROYCE-AIS-023

1= EZ Force Gun, with AIS-QC
Part # ROYCE-AIS-025

1= Whip Hose, 3' with AIS-QC
Part # ROYCE-AIS-027

ONBOARD AIS TOOL STORAGE

Shall be equipped with two Saddle Boxes and one Utility Rack (rated for up to 150 lbs.) for storage of the AIS Tools.

FRAME (Pressure Washer)

Machine shall be surrounded/protected on all sides by a welded steel 1-1/2" tube frame/cage assembly. Components to be located for service/inspection accessibility. Frame is polyester powder coated for maximum corrosion resistance. Fuel tank to be enclosed in the frame as well. The frame and power platform to be separated by vibration isolators. Stainless steel wrap.

FRAME (Trailer)

The trailer frame is made of 10gauge (0.135" material thickness) steel formed 2x4 channel. All welds are per ASTM welding standards. Frame is painted with epoxy wrinkle black.

LIGHTS:

Brake, signal and marker lights are recessed in the frame and are 12 Volt DOT approved. License plate holder houses an indicator light to meet DOT regulations

AXLES / SPRINGS / BRAKES:

Leaf spring axles are rated at 3500lbs class II. Electric brakes with emergency break away kit with 12V battery included.

TIRES:

15" Tires (ST05/75D15) with white painted steel rims. Optional chrome rims, factory installed.

JACK:

The 1000 lbs screw-type jack rotates from the towing position to the vertical position by operating the spring-loaded locking mechanism. An enclosed tube prevents sand and dirt from coming in contact with the precision miter gears and the heavy-duty Acme screw. It has a bright, zinc-plated finish, as well as a polypropylene wheel and four-bolt mounting system.

TONGUE COUPLER:

Weld on Fold-Away hinge for 3" x 3" tube with 2" coupler (GVW 3,500 lbs). Fold-Away hinge shortens trailer length by 25" overall, the hinge is rated at 4,000 lbs. Optional 2" hydraulic coupler, factory installed. All trailers are standard with two (2) 5/16" safety chains with locking latches.

WATER TANKS:

Trailer features a 200 gallon HDPE low profile water tank with 8" round fill cap and large 2" FPT drain fitting. Tank walls are translucent for level viewing and equipped with gallon indicators. Tank includes a durable inlet float valve to prevent overflowing and an extra 3/4" bulkhead for field installed pump bypass.

WATER FILTER:

A 1" T-Line strainer with 20 mesh stainless screen is mounted in between the tank and pressure washer.

HOSE REEL & WAND STORAGE

Two hose reels shall be supplied. Heavy gauge construction, gloss powder coat, high pressure double swivel seals; one for high pressure and one for low pressure. Wand storage bracket with locking latch is located behind the wheel well.

FUEL TANKS

Gasoline (5 gallon) and diesel (10 gallon) tanks feature elevated fuel lines to prevent debris in fuel from causing damage.

AVAILABLE OPTIONS (Trailer)

- Hydraulic Surge Breaks with hydraulic break away kit
- Front rock guard
- 15" Chrome steel rims
- 2-5/16" Ball hitch coupler

TRAILER CERTIFICATION

Trailer to be certified to the NATM and NHTSA requirements.

AQUATIC INVASIVE SPECIES DECALS

Trailer shall be affixed with two each of the following vinyl decals:

- "Clean * Drain * Dry"
- "Watercraft Decontamination Unit"
- "Department Logos" as determined by Owner

DIMENSIONS:

Trailer Only: 136"L x 66"W x 52"H

Pressure Washer Only: 48"L x 32"W x 44"H

LANDA®

Industrial Pressure Washers
...Built Right to Do the Job Right

ROYCE-TRV-AIS

Mobile Watercraft Decontamination System

- Single Axle
- Customized Hot-Water Pressure Washer
- 3,000 lb Load Capacity
- 200 Gallon Water Tank
- Swing-Away Tongue
- Shur-Temp AIS Temperature Control

• 200-gallon white **High-Density Polyethylene Water Tank** comes standard with the trailer and features a 7-inch access port plus a 2-inch drain plug, ¾-inch float valve and a 50-mesh outlet filter.

• **Optional Hose Reels** hold up to 150 ft. of high-pressure hose and quick connects to chassis.

• Made of extra-durable 2-by-4 inch, 10-gauge formed channel, and covered with a powder-coated epoxy black finish for weather protection; this **Heavy-Duty Chassis** features recessed lights with all electrical wiring recessed within the frame.

• The single-axle trailer comes with standard **Electric Brakes with Break Away Kit** or optional hydraulic brakes.



• **Innovative Dual Drain System.** Primary drain for easy daily use purposes. Secondary drain allows tank to be emptied when



winterizing the unit.
• 3-way ball valve makes it easy to **Switch Water Sources** from the holding tank to direct water feed from a hose faucet.

• Made of durable 14 gauge steel, **Optional Rear-Mount Utility Rack** and **Side Saddle Boxes** provide generous tool storage.

• Wheel and axle assembly features an **Industrial Undercarriage** leaf-spring suspension of up to 3,000 lbs. with 15-inch, white rimmed wheels and sturdy fenders.



• Made to handle up to 1,000 lbs, the swivel **jack Trailer Tongue Assembly**, with a 2-inch ball coupler for quick and easy hookup of the trailer. Two ¾-inch chains are also included for additional safety.



• Durable **Swing-Away Tongue** (rated for 3,500 lbs.) allows trailer to be stored in smaller area.

WHY CHOOSE THE ROYCE-TRV-AIS TRAILER?

Royce's involvement in the area of AIS mitigation began in early 2008 shortly after the presences of Quagga Mussels were discovered in Lake Mead. Immediately following their discovery in Lake Mead; Utah, Idaho and Colorado began their "Don't Move a Mussel" and "Stop Aquatic Hitchhikers!" prevention efforts. Since Royce has business operations in each of these states, it became clear that their participation in this movement was paramount. Royce Mobile Decontamination Systems have been constructed to move the boating public thru your agencies program as efficiently and safely as possible while at the same time protecting our waterways from the spread of AIS



The TRV-3500 trailer is made of extra-rugged 2-by-4 inch, 10-gauge formed channel. The wheel and axle assembly feature leaf-spring suspension of up to 3,500 lbs. and 15-inch, white rimmed wheels. A powder-coated epoxy finish gives the entire package added weather protection.

ROYCE-TRV-AIS Mobile Watercraft Decontamination System Specifications

Pressure Washer System

Volume	4.7 GPM
Pressure	3,500 PSI
Engine	Honda GX660,688cc
Engine Fuel	Gasoline (5 gallon tank)
Pump	LT (1360 RPM)
Generator	2,000 watts/120VAC
Gun Control	EASY!Force Ergonomic Trigger
Wand Assembly	Variable pressure wand with 100' hose
Detergent	Downstream detergent injector

Heating System

Pre-Heating	Patent-pending Trans-Heat Technology
Coil	1/2" Schedule 80
Burner Fuel	Diesel/kerosene/fuel oil (7 gallon tank)
BTUs	450,000
Shur-Temp	Temperature Customization System for Aquatic Invasive Species Decon Programs

Included Options & Accessories

- PGHW Mounting Kit Assembly
- 100' x 3/8" R2 High Pressure Hose

- High Pressure Hose Reel (100' cap.)
- 50' x 3/4" Contractor Hose
- Low Pressure Hose Reel (100' cap.)
- Utility Rack (rated for up to 150 lbs.)
- Saddle Boxes (2 boxes)

Trailer

Water Tank Capacity	200 gallons
Load	3,500 lb. capacity
Trailer Axles	Single, 3,500 lbs. each with electric brakes
Wheels	15-inch wheels, ST205/75/R15 tires
Swing-Away Tongue	3,500 lb. capacity with 2 inch ball coupler
Swivel Jack	1,000 lb. capacity
Safety Chains	Dual 5/16 inch steel link with latching hooks
Lighting	DOT Approved Recessed lights, license plate holder
AIS Decals	"Clean * Drain * Dry" "Watercraft Decontamination Unit" "Department Logos"
Dimensions	136"L x 66"W x 52 "H (with swing-away tongue)
Dry Weight	1,263 lbs.



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