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Equipment specifications

WATERCRAFT DECON UNIT (AIS) ROYCE-MHC-AIS PORTABLE

TYPE:

Hot water, high pressure, gasoline powered, portable 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	3.5 GPM
Pressure	3500 PSI
Pump RPM	3400
Engine	389 cc Electric Start Honda
Burner	12V DC
BTU	336,000

ENGINE:

The engine is to be a GX390, Honda, electric start, four stroke, overhead valve, single cylinder with C.D.I electronic advancer. Engine is to be equipped with a low oil shutdown sensor to protect the engine in the event oil level becomes low. The engine is air cooled and vibration isolated. It clears strict CARB and EPA emissions regulations.

HIGH PRESSURE PUMP:

Corrosion resistant ceramic plungers, externally accessible stainless steel valve assemblies, oil bath crankcase type with forged brass head, rated 3.5 GPM and 4000 PSI. Pump bypass loop shall be equipped with 145°F (63°C) thermal relief valve to protect the pump from high inlet water temperature.

UNLOADER VALVE:

The pressure washer shall be equipped with a pressure trapping unloader valve rated for 3650 PSI and 8 GPM.

DRIVES/PUMPS:

Direct drive system with hardened forged steel hollow crankshafts with heavy-duty bearing system that permits direct coupling of pump to the engine.

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 12V DC/Tachometer/Service Minder.
- Lexan operating instructions and safety information in English, French and Spanish, attached by a high strength adhesive.
 - Hour Meter 12V DC/Tachometer/Service.
 - Adjustable thermostat.
 - Fuel level indicator for fuel tank.
 - Individual burner control switches.
 - Overload circuit breaker.
 - Burner indicator light.
 - 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 coil shall be surrounded by an aluminized steel inner wrap to prevent corrosion, and an outer stainless steel wrap with air gap to protect the operator from excessive temperature.

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 140°F (60°C) temperature rise. Burner fuel pump shall be equipped with safety fuel solenoid and regulator for safety and fuel pressure adjustment. The burner is to be powered by an 18 amp engine charging system and a 12 volt DC battery.

FUEL FILTER:

The burner shall be equipped with a replacement type fuel filter, to protect the fuel pump from damage due to contamination.

HIGH TEMPERATURE CONTROL:

Shall be of the immersion thermostat type located at discharge of coil with an operating temperature setting at 225°F (107°C). This safety control shall only control the fuel solenoid not the burner assembly for safety and dependability.

RUPTURE DISK:

A rupture disk is located at the discharge side of the coil for pressure relief and protection, in the event of over pressurization.

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:

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 wand with built-in variable pressure control and remote detergent control valve and nozzle. Insulated grab handle and wand for operator protection.

HOSES:

All hoses shall be 3/8" ID (1 cm) double steel braid type meeting or exceeding machine specification. Shall be equipped with swedge and safety protection collars 24" on operator gun end for added protection. Rated at 4,500 PSI (310.5 bar) at 275°F (135°C).

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 DECONTAMINATION 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

FRAME

Components to be located for service/inspection accessibility. Frame is epoxy powder coated for maximum corrosion resistance. Fuel tank to be enclosed in the frame as well. The tires shall be tubed pneumatic to absorb vibration and allow movement on different terrain's. 1-1/4" square tubing, 10 gauge steel platform.

DIMENSIONS:

Length/width/height	41.5"/29"/44.5"
Shipping weight	550 lbs.

LANDA®

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

Since 1969

ROYCE-MHC-AIS

Portable Watercraft Decontamination System

- 3.5GPM @3500PSI
- Heavy-Duty Honda Engine
- Direct-Drive Pump with 7-Year Warranty
- Shur-Temp AIS Temperature Control



• Extra-durable **Horizontal Heating Coil** made of leak-free, cold-rolled, schedule 80 steel pipe with five-year warranty.



• Unique lift-out design allows for easy and quick **Coil Access**.

• Top-of-the-line **12V DC Burner** uses new high-tech engineering for better fuel efficiency and lower maintenance.

• Helpful **Trilingual Labels** with operating instructions in English, Spanish and French for owner and operator protection.

• Rust-free, 10 gal. **Fuel Tank** with elevated fuel line to prevent dirt and debris from reaching burner.

• Industrial-grade, tri-plex **High-Pressure Pump** has a forged brass head and a seven-year limited warranty.

• Easy-reach **Control Panel** has **Adjustable Thermostat, Hour Meter, and Tachometer** with digital display that flashes a reminder when maintenance is due.

• Industrial-duty **Honda**, with overhead valves and easy-access oil drain line, is mounted on **Vibration Isolators** for less wear and longer life.

• Insulated, fatigue-free **Trigger Gun** and chrome-plated, dual-lance **Variable Pressure Wand** for adjusting of the pressure while cleaning.

• 50 ft. of steel-wire braid **High Pressure Hose** with 24-inch guard for burst protection.

• Many **Safety Features**, including a rupture disk and thermal pump protector to prevent build up of excess pressures or heat.

• Options include **Caster Wheels** for extra mobility in tight work areas and **Float Tank** with inlet detergent metering valve.



• Easy-to-attach **Detergent Injector** for applying soap while washing simply by twisting the handle on the wand.

• 13-inch, two-ply, tubed, **Pneumatic Tires** for easy maneuvering and **Wheel Brake** for added stability.

• Rugged 1½" square tube steel **Chassis** protected with weather-resistant epoxy powder coat finish.



• Durable polyurethane **Battery Box** on electric start models slides out for easy access.

• Four quick-couple **Nozzles** are made of hardened stainless steel and mounted for ready access.



ROYCE-MHC-AIS

Portable Watercraft Decontamination System

- 3.5GPM, 3500PSI
- Heavy-Duty Honda Engine
- Direct-Drive Pump with 7-Year Warranty
- Shur-Temp AIS Temperature Control



WHY CHOOSE THE ROYCE-MHC-AIS

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

ROYCE-MHC-AIS Portable Watercraft Decontamination System Specifications

Pressure Washer System

Volume	3.5 GPM
Pressure	3,500 PSI
Engine	Honda GX390, 389cc
Burner Type	12 Volt DC
Gun Control	EASY!Force Ergonomic Trigger
Wand Assembly	Variable pressure wand with 50' hose
Detergent	Downstream detergent injector

Heating System

Coil	1/2" Schedule 80
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Burner Fuel	Diesel/kerosene/fuel oil (10 gallon tank)
BTUs	336,000
Shur-Temp	Temperature Customization System for Aquatic Invasive Species Decontamination Programs

Included Options & Accessories

Aquatic Invasive Species Decontamination Tools x 14 (See Attached)	
AIS Decals	"Clean * Drain * Dry"
Dimensions	41.5"L x 29"W x 44.5 "H
Dry Weight	600 lbs.

Royce Industries

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R. Calvin Rasmussen 702-591-8189
calvin@buyroyce.com