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Equipment specifications

WATERCRAFT DECON UNIT (AIS) ROYCE-ENG-AIS STATIONARY

TYPE:

Hot water, high pressure, electric powered washer. Machine shall be capable of operating on fresh water. Machine shall be manually operated with appropriate safety controls. Must be ETL, UL, or CSA certified. Must be certified by a Nationally Recognized Testing Laboratory like ETL, UL, and/or CSA to the pressure washer industry safety standard UL1776 or CSA B140.11-M89. All equipment built in a registered factory to the ISO-9001 quality standard.

GENERAL SPECIFICATIONS:

Discharge	4.8 GPM
Pressure	3000 PSI
Pump RPM	1200
Electric Motor	10 HP
Fuel Type:	Natural Gas or Propane Gas (Vapor Only)
BTU:	415,000
Available Voltages:	230V/1ph/40a 230V/3ph/26a 460V/3ph/15a 208V/1ph/49a 208V/3ph/32a 575V/3ph/14a

HOSES:

All hoses shall be 3/8" ID (9.5 mm) double steel braid type meeting or exceeding SAE100R2 performance specification. Shall be equipped with swedge and strain relief collars. Rated at 4,500 PSI (310 bar) at 275°F (135°C).

TRIGGER SPRAY GUNS:

Insulated pistol type safety shut-off spray gun supplied shall be rated at 10 GPM (37.8 lpm), 5000 PSI (345 bar), and 300°F (148°C). Constructed from fiberglass-reinforced polyester with brass and stainless steel valves and seats.

WANDS:

A 36" (92cm) angled insulated wand for operator protection, equipped with quick coupler nozzle attachment.

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.

DRIVES:

Belt drive system with cast iron bushed bore pulleys, grip notch V-section belts, and automatic spring loaded belt tensioning system for proper belt alignment and tensioning.

HIGH PRESSURE PUMP:

The high pressure pump shall be a Landa ceramic plunger, oil bath crankcase type with forged brass head, equipped with U-Seals, rated for 3500 PSI (241.3 bar) and 185°F (85°C)

UNLOADER VALVE:

The pressure washer shall be equipped with a pressure actuated unloader valve with Micro Switch, suitable for dual spray gun operation rated for 3650 psi (251.7 bar) and 10 gpm (30 lpm), to prevent excessive pressure damage.

FRAME:

Machine shall be surrounded and protected on all sides by a steel frame/panel assembly. Components to be located for service/inspection accessibility by a removable service panel. All painted material will be painted with a powder coat paint after all surfaces have been properly phosphatized to provide optimal adhesion properties for the paint.

CONTROLS/GAUGES:

All safety controls shall be low voltage 24V to meet UL/CSA standards. Machine shall have control panel and chassis with the following: (Electrical must meet standards CSA C22.2 No. O-M1991 and No. 3-M1988 for general electrical for fuel burning equipment.): • Hourmeter • Lexan plastic operating instructions and safety information in English, Spanish and French attached by a high strength adhesive. • Magnetic motor control with overload protection. • Individual burner control switches. • Electrical plug-in connections for field modifications to change operations of the machine from standard on/off to time delay or automatic start/stop operation, or wireless/wired remote. • Step-down transformer with primary and secondary fuse protection to meet NEC codes. • Indicator lights to monitor power, burner ignition, and motor overload. • Metering detergent valve with ratio indicators.

DIMENSIONS:

Length/width/height 49"/24"/48"(125/61/122 cm) Net weight: 800 Lbs. (363 kg) Shipping Weight: 900 lbs. (408 kg)

HOSE QUICK CONNECTIONS:

ST series quick coupler with stainless steel collar and bearings.

BURNER ASSEMBLY:

TYPE: Must comply with standard CAN/CSA-B140.11-M89 and CAM-2.17-M91 for Commercial-Industrial steam cleaning machines and UL 1776 standard. Natural draft, electronic ignition of sufficient capacity to provide 130°F (54°C) temperature rise. An automatic electronic pilot shut-off valve shall be provided to independently shut-off the supply of gas to the pilot. Particles from the burner and coil assembly are prevented from falling on the floor by a steel tray.

HEATING COIL:

Schedule 80 A53 cold formed duracoil, with dimensions of .50" ID, (12.7mm) x .84" OD (21.3mm) x 152 feet (43.3m) overall length. Welding certified to ASME standards. The heating coil shall be insulated with a non-carcinogen ceramic fiberglass blanket constructed #6 density, 1 inch thick material.

SHUR-TEMP (Customized for Aquatic Invasive Species)

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

RUPTURE DISK:

A safety rupture disk is located at the discharge port of the coil for over pressurization protection.

HIGH TEMPERATURE CONTROL:

An adjustable thermostat shall be located on the control panel with a sensing element positioned on the discharge end of the coil and an operating temperature setting from 95°- 240°F

(116°C). The thermostat will interlock with the gas control valve to shut the supply of fuel off to the burner.

SAFETY PRESSURE SWITCH:

Shall be located on cold water side of heating to prevent thermal damage. This safety switch will be hermetically sealed to prevent moisture damage. Pressure switch to control fuel shut-off.

WATER SUPPLY SYSTEM:

A reinforced polyethylene water tank with automatic diaphragm float shut-off valve shall be permanently mounted to machine to supply water to high pressure pump. Its special design shall meet backflow prevention standards as they apply to this type of equipment. A fine mesh in-line filter shall be installed at two locations, to adequately protect high pressure pump from debris entering 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.

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

STEAM COMBINATION OPTION:

A steam/unloader valve is to be located inside of cabinet and of the type to prevent operator tampering TIME DELAY

SHUTDOWN OPTION:

This machine shall be equipped with a shut-off timer to turn the machine off in the likely event that the machine is left on and unattended.

WIRED REMOTE OPTION:

Remote electrical controls mounted in boxes rated to NEMA 4X Standard. This will allow operator control of the machine remotely.

WIRELESS REMOTE OPTION:

Wireless Remote Control System allows control of the on/off operation of the pump, burner and detergent control, by the operator, from a maximum distance of 300 ft.

LANDA®

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

Since 1969

ROYCE-ENG-AIS

Stationary Watercraft Decontamination System

- 4.8 GPM @3200 PSI
- Rugged Belt-Driven Pump with 7-year Warranty
- Electronic Ignition
- Natural Gas and LP Models
- Multiple Voltage & Phase Available

- Industrial-grade, belt-driven **High-Pressure Pump** has a triplex, forged brass head with a 7-year limited warranty and U-seals for greater pump protection.

- Cast-iron, bushed-bore **Pulleys** mean long life and easy maintenance on the high-pressure pump.

- Rugged **Steel Frame** painted with a polyester powder-coat finish for all-weather protection.

- Overload protected **Lighted Control Switches** are conveniently located for ease of operation.

- Many **Safety Features**, including a rupture disk to prevent the build-up of excessive pressures or heat.

- High-efficiency **Burner** has **Electronic Ignition** standard on all models, eliminating the hassle of having to constantly light the pilot flame.

- Innovative swing-out cast iron **Burner Ring** makes serviceability easier.

- Rust-free, polyethylene **Float Tank** with stainless steel inlet filter and low-turbulence diaphragm float valve allows for high pressure application of detergent.

- During installation, **Fielder's Choice** allows inlet and outlet connections to be located on either end or rear of the machine.

- Extra-durable **Heating Coil** made of leak-free, cold-rolled, Schedule 80 steel pipe with 5-year warranty.

- **Removable Panels** with EZLoc fasteners allow easy access to components for repair or replacement.



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

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

- **Tru-Tite** belt tensioning system uses an idler arm to keep the belt in-line, tensioned, and it extends the life of the belt.

- Brass, anti-syphon **Detergent Metering Valve** locks out air and dispenses precise amount of cleaning agent.

- Landa's patented **Cool-Bypass*** system keeps pump water temperature low while in bypass.

- Industrial-duty **Electric Motor** with multiple voltage options and thermal overload protection.

- Optional **Wireless Remote** controls the pump, burner and detergent up to 300 feet away line of sight.



*Patent No. 8,496,188 B2



- Top-of-the-line **Tuff-Skin Hose**, with 24-inch hose guard for burst protection and swivel swedge fitting for twist-free operation; offers seven times the abrasion resistance as other high-pressure hoses.

- Insulated, fatigue-free **Trigger Gun** with stainless steel **Insulated Wand** make for effective point-and-shoot cleaning action.

The ROYCE-ENG-AIS, with its fuel-efficient burner and vertical hot water coil, is the most compact natural gas hot water pressure washer on the market today.

Compact: This unit is only 49-inches long, 24-inches wide, and stands 48-inches high – an amazingly small footprint for all of the features and quality it possesses. For cleaning applications that require more water flow, larger units are available.

INNOVATION: Landa's patented Cool-Bypass* system keeps water temperature low while in bypass, extending the life of the pump. Landa's new Tru-Tite belt tensioning system uses a spring-loaded idler arm to keep the belt aligned and tensioned, and it creates less wear and tear on the belt. The new Fielder's Choice system allows the user to move the inlet/outlet connections from one side to the other, making installation easier than ever before.

Quality: The ROYCE-ENG-AIS boasts many of the industrial-grade components and safety features that have set apart our pressure washers as the most dependable and safe in the industry. For instance, the burner comes with standard electronic ignition on all models. The heat is retained in the carefully crafted heating coils made of leak-free, cold-rolled, 1/2-inch Schedule 80 steel pipe.



Fully instrumented
This units removable panels allow easy access to components and is available with the optional Wireless Remote Control.

The Tru-Tite belt tensioning system minimizes wear and tear on the belt.



ROYCE-ENG-AIS Stationary Watercraft Decon Specifications

Pressure Washer System

Volume	4.8 GPM
Pressure	3,000 PSI
Motor	10 HP
Available Voltages:	230V/1ph/40a 230V/3ph/26a 460V/3ph/15a 208V/1ph/49a 208V/3ph/32a 575V/3ph/14a

Fuel Type Natural Gas or Propane Gas (Vapor Only)

Shur-Temp

Gun Control	EASY!Force Ergonomic Trigger
Wand Assembly	Variable pressure wand with 50' hose
Detergent	Upstream Metering Valve
Heating System	Coil, 1/2" Schedule 80
BTUs	415,000
Shur-Temp	Temperature Customization System for AIS Decon Programs
Dimensions	41.5"L x 29"W x 44.5 "H
Dry Weight	600 lbs
Dimensions	49"L x 24"W x 48"H
Dry Weight	885 lbs.

Included Options & Accessories

- Aquatic Invasive Species Decontamination Tools x 14 (See Attached)
- AIS Decals; "Clean * Drain * Dry"



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