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## Equipment Specifications PRESSURE WASHER EQUIPMENT

### SGP-403537E (#1.110-057.0)

#### **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. Machines must conform with CGA, CSA, UL or ETL certification. 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 (13 lpm)
Pressure	3500 PSI (241 bar)
BTU's	327,000
Engine	Honda GX390(389 CC) Electric Start (18 Amp)
Burner	12V DC

#### **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.

#### **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 (13 lpm) and 4000 PSI (276 bar). 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 (252 Bar) and 8 GPM (30 LPM).

#### **PUMP DRIVES:**

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

#### **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 (19 mm). Welding done to ASME standards. The coil shall be surrounded by an aluminized steel inner wrap to prevent corrosion, and an outer wrap with air gap to protect the operator from excessive temperature.

#### **CONTROLS:**

Machine shall have control panel and chassis with the following:

- Hourmeter 12V DC
- Lexan operating instructions and safety information in English, French and Spanish attached by a high strength adhesive.
- Fuel level indicator for fuel tank.
- Individual burner control switches.
- Overload circuit breaker.
- Burner indicator light.

#### **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 fine mesh in-line filter shall be installed to adequately protect high pressure pump.

#### **TRIGGER SPRAY GUNS:**

Insulated pistol type safety shut-off spray gun supplied shall be rated at 12 GPM (45 lpm), 4500 PSI (310 bar), and 300°F (149°C). Constructed from fiberglass-reinforced polyester with brass and stainless steel 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 4,000 PSI (275 bar) at 275°F (135°C).

#### **NOZZLES:**

Appropriate, color coded, identifiable high pressure nozzle for single spray gun operation shall be supplied in 0°, 15°, 25°, 40° flat spray pattern. The nozzle 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 couplers with stainless steel support balls 4,000 PSI rated.

#### **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 45"/30"/43" (114/76/109 cm)  
Shipping weight 475 lbs. (215.7 kg)

