Pressure Washers

HSP Series

Hot Water – Gasoline – Direct Drive

Pump:
- Preset stainless-steel and brass unloader valve
- Forged brass manifold
- Thermal relief valve
- Low pressure detergent injector
  (Available as an option on HSP-2503-0MMH)

Frame:
- Reinforced powder coated steel tube frame with center balanced lift
- Convenient gun/wand holder and hose wrap
- 13-inch flat-free tires

Components:
- No. 1 or No. 2 diesel or kerosene fired burner
  (Not approved for bio-fuel)
- Top-fired powder coated heat exchanger

Miscellaneous:
- Temperature rise 150°F/66°C above ambient,
  maximum outlet temperature is 200°F

Unit Includes:
- Quick connect nozzles - 0°, 15°, 25° and 40°
- 50-foot x ⅜-inch steel wire-braided high pressure hose with quick connects
- Professional-grade insulated trigger gun with safety lock-off
- Adjustable pressure insulated dual lance

Limited Warranties:
- 3 year coil
- 3 year Honda and Kohler engines
- 7 year AR and Mi-T-M pumps

Certification:
- CSA Certified - US and Canada

The patented Electro Magnetic Firing (EMF) system of the HSP Series, along with its unique burner design, makes this popular hot water pressure washer one of the most “in-demand” in the industry. It’s a great solution for removing heavy mud from construction and ag equipment.

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>PSI</th>
<th>GPM</th>
<th>DISPLACEMENT/ENGINE</th>
<th>PUMP</th>
<th>Mi-T-M NO.</th>
<th>FUEL TANK CAPACITY</th>
<th>BURNER FUEL TANK CAP</th>
<th>BURNER FUEL CONS.</th>
<th>BTU PER HOUR</th>
<th>DIMENSIONS (LxWxH)</th>
<th>SHIP WT.</th>
<th>NET WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSP-2503-0MMH</td>
<td>2500</td>
<td>2.6</td>
<td>196cc Honda GX200 OHV</td>
<td>Mi-T-M</td>
<td>3-0417</td>
<td>0.95 gallon</td>
<td>4.0 gallons</td>
<td>1.53 gph</td>
<td>210,000</td>
<td>43x29.5x36.5in.</td>
<td>411 lb.</td>
<td>295 lb.</td>
</tr>
<tr>
<td>HSP-3003-3MGH</td>
<td>3000</td>
<td>2.9</td>
<td>270cc Honda GX270 OHV</td>
<td>AR, external bypass</td>
<td>3-0241</td>
<td>1.59 gallons</td>
<td>5.5 gallons</td>
<td>1.84 gph</td>
<td>253,000</td>
<td>43x30x41in.</td>
<td>530 lb.</td>
<td>407 lb.</td>
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<tr>
<td>HSP-3504-3MGH</td>
<td>3500</td>
<td>3.3</td>
<td>381cc Honda GC390 OHV</td>
<td>AR, external bypass</td>
<td>3-0194</td>
<td>1.70 gallons</td>
<td>5.5 gallons</td>
<td>2.14 gph</td>
<td>294,000</td>
<td>43x30x41in.</td>
<td>551 lb.</td>
<td>428 lb.</td>
</tr>
<tr>
<td>HSP-3504-3MGK</td>
<td>3500</td>
<td>3.3</td>
<td>429cc Kohler CH440 OHV</td>
<td>AR, external bypass</td>
<td>3-0194</td>
<td>1.70 gallons</td>
<td>5.5 gallons</td>
<td>2.14 gph</td>
<td>294,000</td>
<td>43x30x41in.</td>
<td>551 lb.</td>
<td>428 lb.</td>
</tr>
</tbody>
</table>

Accessories & Options:

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>FITS MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-0464AS2A</td>
<td>Rain cap</td>
<td>3000 to 3500-PSI models</td>
</tr>
<tr>
<td>50-0161</td>
<td>High pressure detergent injector</td>
<td>All models</td>
</tr>
<tr>
<td>850-0433</td>
<td>50-ft. x ⅜-in. high pressure hose</td>
<td>3500-PSI models</td>
</tr>
<tr>
<td>851-0262</td>
<td>50-ft. x ⅜-in. high pressure hose</td>
<td>2500 to 3000-PSI models</td>
</tr>
<tr>
<td>HX-0098</td>
<td>Electric start - battery included</td>
<td>HSP-3504-3MGH</td>
</tr>
<tr>
<td>HX-0233</td>
<td>Adjustable thermostat</td>
<td>HSP-2503-0MMH</td>
</tr>
<tr>
<td>HX-0234</td>
<td>Low pressure detergent injector</td>
<td>HSP-2503-0MMH</td>
</tr>
<tr>
<td>HX-0236</td>
<td>Hour meter</td>
<td>HSP-2503-0MMH</td>
</tr>
<tr>
<td>HX-0250</td>
<td>Adjustable thermostat</td>
<td>3000 to 3500-PSI models</td>
</tr>
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</table>
**HSP Series Burner Design**

1. Large capacity exhaust tubes allow for proper exhausting of combustion gases.
2. When troubleshooting a burner problem, the spark can easily be checked within seconds through the convenient sight glass.
3. Continuous wrap tubing coil eliminates butt welds that can cause leaks. The coil is lightweight and designed for easy replacement and durability.
4. The insulation pad is designed for easy replacement and durability.
5. Coil inlet/outlet connections and convenient coil drain allow for easy draining of all water in coil to prevent freezing.
6. The combustion chamber drain allows for easy draining of water and fuel build-up.
7. With Mi-T-M’s triple air flow design, the temperatures on the outer wrap are kept low enough to eliminate the need for coil insulation. This also increases the efficiencies of the fuel being burned by the ignition on the down-flow and the exhaust on the up-flow of the burner chamber.
8. Single wire-braided fuel hose prevents leakage, protects the system and won’t crack or kink.
9. Electrodes and nozzle assembly are at top of burner for easy maintenance and troubleshooting.

**HSP Series Patented EMF System**

In 1999, Mi-T-M Corporation received the patent for a unique ignition/firing system, called the Electro Magnetic Firing (EMF) System, which produces enough voltage for operation and proper burning of the HSP Series hot water pressure washers.

This system is designed with two sets of magnets that are used to produce electricity. The first set of magnets produce a low voltage of about 12 to 14-volts when passed by a coil known as a stator. This voltage is required for operation of the on/off switch, pressure and high limit switches and the fuel solenoid.

The second set of magnets pass by an ignition coil which produces a high voltage in the tens of thousands of volts. The spark is generated across the electrode gap and is enough to create proper ignition of either No. 1 diesel, No. 2 diesel or kerosene.

1. Engine sheave, dual set screw mount, maintains proper alignment of pump shaft key.
2. The belt tension sheave creates proper belt tension so fuel pump discharges fuel upon demand.
3. The long lasting, non-corrosive flexible drive coupler protects EMF system if fuel pump locks up.
4. Fuel pump is a durable high quality pump that will deliver No. 1 or No. 2 diesel fuel or kerosene.
5. Stator coil/magnets are a low maintenance system that provides solenoid control voltage.
6. Fan provides burner air for proper combustion and clean exhaust smoke. It has an easily accessible air flow control.
7. Ignition coil provides voltage to electrodes for proper spark voltage, allowing accurate ignition of fuel every time the trigger is pulled. The ignition coil has a long life, is easily replaced and has a proven track record in the industry.

**EMF System eliminates the need for a 12V battery.**