

HSP Series

The HSP Series features a reinforced powder coated steel tube frame with center balanced lift. The patented Electro Magnetic Firing (EMF) system eliminates the need for a 12V battery to operate the burner, making this one of our most popular hot water units on the market today.

Pump:

- Stainless-steel and brass unloader valve, preset
- Forged brass manifold
- Thermal relief valve
- Low pressure detergent injector (Available as an option on HSP-2503 models)

Frame:

- 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 3/8-inch steel wire-braided high pressure hose with quick connects
- 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 pump

Certifications:

- CSA Certified - US and Canada



HSP-3504-3MGH

Hot Water – Gasoline – Direct Drive

MODEL NUMBER	PSI	GPM	DISPLACEMENT/ENGINE	PUMP	Mi-T-M NO.	FUEL TANK CAPACITY	BURNER FUEL TANK CAP.	BURNER FUEL CONS.	BTU PER HOUR	DIMENSIONS (LxWxH)	SHIP WT.	NET WT.
HSP-2503-0MMH	2500	2.6	196cc Honda GX200 OHV	Mi-T-M	3-0417	0.95 gallon	4.0 gallons	1.53 gph	210,000	43x29.5x36.5in.	411 lb.	295 lb.
HSP-3003-3MGH	3000	2.9	270cc Honda GX270 OHV	AR, external bypass	3-0241	1.59 gallons	5.5 gallons	1.84 gph	253,000	43x30x41in.	530 lb.	407 lb.
HSP-3504-3MGH	3500	3.3	389cc Honda GX390 OHV	AR, external bypass	3-0194	1.70 gallons	5.5 gallons	2.14 gph	294,000	43x30x41in.	551 lb.	428 lb.
HSP-3504-3MGK	3500	3.3	429cc Kohler CH440 OHV	AR, external bypass	3-0194	1.70 gallons	5.5 gallons	2.14 gph	294,000	43x30x41in.	551 lb.	428 lb.

Accessories & Options:

PART NUMBER	DESCRIPTION	FITS MODELS	PART NUMBER	DESCRIPTION	FITS MODELS
20-0464A52	Rain cap	3000 to 3500-PSI models	HX-0233	Adjustable thermostat	HSP-2503-0MMH
50-0161	High pressure detergent injector	All models	HX-0234	Low pressure detergent injector	HSP-2503-0MMH
850-0433	50-ft. x 3/8-in. high pressure hose	3500-PSI models	HX-0236	Hour meter	HSP-2503-0MMH
851-0262	50-ft. x 3/8-in. high pressure hose	2500 to 3000-PSI models	HX-0250	Adjustable thermostat	3000 to 3500-PSI models
HX-0098	Electric start - battery included	HSP-3504-3MGH			

HSP Series Hot Water Designs

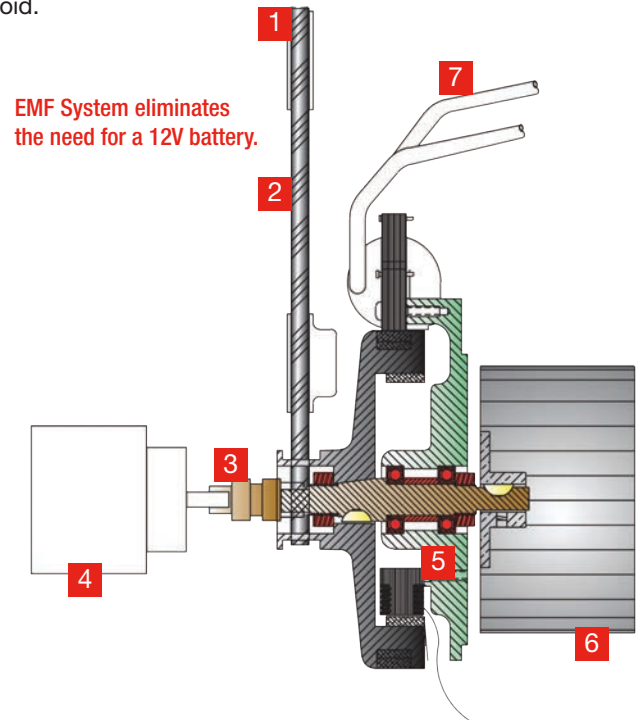
HSP Series Patented EMF System

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 produces 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 passes 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.



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.

