



Hot Water Pressure Washers

HSE Series



Performance Under Pressure.®

HSE Series

Electric - Direct Drive

If you're looking for a hot water unit with large volume capacity, look no further. The HSE Series works great in industrial applications requiring 20 or more hours per week and is built for longevity. The top-fired heat exchanger is energy efficient and designed for convenient troubleshooting.



High quality fuel filter/water separator ensures clean fuel supply to the burner



Energy efficient top-fired heat exchanger designed for convenient troubleshooting and easy maintenance



HSE-1002-2M10 shown with optional hose reel

Pump

- Direct or belt drive triplex General or AR pump with ceramic plungers
- Stainless-steel and brass unloader valve
- Forged brass manifold
- Thermal relief valve
- High pressure detergent injection (low pressure on HSE-1002-2M11)

Motor

- Totally enclosed fan-cooled electric motor with manual thermal overload protection
- 35-foot power cord with in-line GFCI which meets required CSA certification (GFCI not available on 3000 & 3500-PSI models)
- Solid state electronic ignition

Frame

- Reinforced powder coated steel tube frame with center balanced lifting hook
- Powder coated steel hose reel mounting bracket
- Electric cord hanger
- Powder coated steel gun/wand holder
- Solid steel threaded axles
- Four pneumatic tires with tubes
- Locking tire brake

Components

- Heavy-duty dual cogged belt drive system to prevent slippage (Belt drive models)
- Complete system diagnostic board
- Float tank (Not available on HSE-1002-2M11)
- Pressure and high limit safety controls
- No. 1 or No. 2 diesel or kerosene fired burner (Bio-fuel not approved at this time)
- Polyethylene burner fuel tank
- Easy coil drain helps prevent freezing in cold weather

Unit Includes

- 50-foot x 3/4-inch steel wire-braided pressure hose with screw connects, swivel and bend restrictors
- Professional-grade insulated trigger gun with safety lock-off
- Adjustable pressure insulated dual lance with 15° fixed and detergent nozzle

Miscellaneous

- Temperature rise 150°F/66°C above ambient, maximum outlet temperature is 200°F
- Water output temperature is 190°-200°F (Excludes HSE-1002-SM12)
- Water output temperature for "wet" steam is approximately 250°F (HSE-1002-SM12)
- Operates at 650-PSI in "wet" steam mode (HSE-1002-SM12)



Electric - Belt Drive

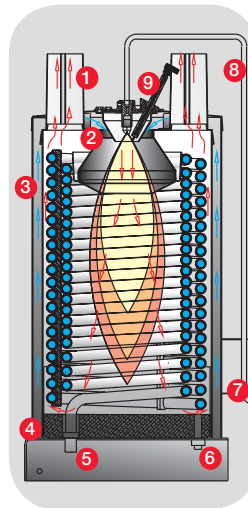
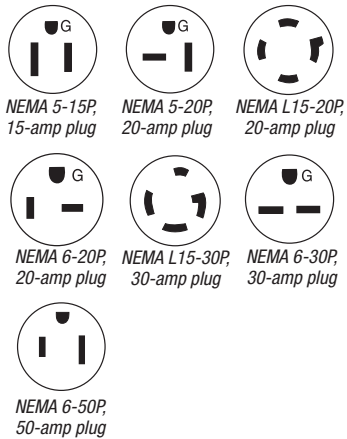
HSE Series

HSE-3004-0M10 shown with optional hose reel

Energy efficient top-fired powder coated heat exchanger designed for convenient troubleshooting and easy maintenance



Heavy-duty dual cogged belt drive system to prevent slippage

**Burner Design**

1. Large capacity exhaust tubes allow 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 which 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 with convenient coil drain, allows for easy draining of all water in coil to prevent freezing.
6. The combustion chamber drain allows for easy draining of water or 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.



Mi-T-M offers a full line of products including cold water pressure washers, air compressors, portable generators, air compressor/generator combination, air compressor/generator/welder combination, wet/dry vacuums, jobsite boxes, portable heaters and water treatment systems.

HSE Series

Gasoline - Direct Drive

Direct Drive Models

Model Number	PSI	GPM	Horsepower/Motor	Plug Type	Burner Fuel Tank Capacity	Burner Fuel Consumption	BTU per Hour	Dimension (LxWxH)	Ship Wt.	Net Wt.
HSE-1002-2M11*	1000	2.0	1.5 HP, 120V, 1Ø, 15.0A	NEMA 5-15P	4.0 gallon	1.33 gph	186,000	34in.x29in.x33in.	368 lbs.	245 lbs.
HSE-1002-2M10	1000	2.0	1.5 HP, 120V, 1Ø, 15.0A	NEMA 5-15P	4.0 gallon	1.33 gph	186,000	34in.x29in.x33in.	368 lbs.	245 lbs.
HSE-1002-SM12^	1000	2.0	1.5 HP, 120V, 1Ø, 15.0A	NEMA 5-15P	4.0 gallon	1.33 gph	186,000	34in.x29in.x33in.	368 lbs.	245 lbs.
HSE-1502-2M10	1500	2.0	2.0 HP, 120V, 1Ø, 19.0A	NEMA 5-20P	4.0 gallon	1.21 gph	169,000	34in.x29in.x33in.	373 lbs.	250 lbs.
HSE-2003-2M10	2000	2.8	4.0 HP, 230V, 1Ø, 18.0A	NEMA 6-20P	4.0 gallon	1.53 gph	214,000	34in.x29in.x33in.	393 lbs.	270 lbs.

*Low pressure detergent injection.

^Combination wet steam cleaner/pressure washer.

Belt Drive Models

Model Number	PSI	GPM	Horsepower/Motor	Plug Type	Burner Fuel Tank Capacity	Burner Fuel Consumption	BTU per Hour	Dimension (LxWxH)	Ship Wt.	Net Wt.
HSE-2504-0M10	2500	3.2	6.0 HP, 230V, 1Ø, 25.0A	NEMA 6-30P	10.0 gallon	2.10 gph	294,000	49.5in.x28in.x40.5in.	699 lbs.	569 lbs.
HSE-2504-0M30	2500	3.2	6.0 HP, 230-460V, 3Ø, 16.0A	NEMA L15-20P	10.0 gallon	2.10 gph	294,000	49.5in.x28in.x40.5in.	688 lbs.	558 lbs.
HSE-3004-0M10	3000	3.5	8.0 HP, 230V, 1Ø, 36.0A	NEMA 6-50P	10.0 gallon	2.10 gph	294,000	49.5in.x28in.x40.5in.	737 lbs.	607 lbs.
HSE-3004-0M30	3000	3.5	8.0 HP, 230-460V, 3Ø, 24.0A	NEMA L15-30P	10.0 gallon	2.10 gph	294,000	49.5in.x28in.x40.5in.	732 lbs.	602 lbs.
HSE-3504-0M10	3500	3.3	10.0 HP, 230V, 1Ø, 39.0A	NEMA 6-50P	10.0 gallon	2.10 gph	294,000	49.5in.x28in.x40.5in.	761 lbs.	631 lbs.
HSE-3504-0M30	3500	3.3	10.0 HP, 230-460V, 3Ø, 28.0A	NEMA L15-30P	10.0 gallon	2.10 gph	294,000	49.5in.x28in.x40.5in.	742 lbs.	612 lbs.

OPTIONS

Part Number	Description	Fits Models
HX-0050	Auto start/stop - When trigger gun is released, the timer will turn unit off; when trigger gun is pulled unit will restart	HSE-1002-2M11 & HSE-1002-2M10 & HSE-1502-2M10
HX-0051	Auto start/stop - When trigger gun is released, the timer will turn unit off; when trigger gun is pulled unit will restart	HSE-2003-2M10
HX-0052	Auto start/stop - steam - Auto start/stop option - when trigger gun is released, the timer will turn unit off; when trigger gun is pulled unit will restart; Steam option - reduces pressure to 350-PSI by adjusting unloader valve counter-clockwise, spray temperatures will rise 240°F above ambient with a maximum of 300°F	HSE-1002-2M11 & HSE-1002-2M10
HX-0053	Auto start/stop - steam - See HX-0052 for option description	HSE-1502-2M10
HX-0054	Auto start/stop - steam - See HX-0052 for option description	HSE-2003-2M10
HX-0055	Auto start/stop - CAD cell - Auto start/stop option - when trigger gun is released, the timer will turn unit off; when trigger gun is pulled unit will restart; CAD cell option - monitors burner for proper ignition	HSE-1002-2M11 & HSE-1002-2M10 & HSE-1502-2M10
HX-0056	Auto start/stop - CAD cell - See HX-0055 for option description	HSE-2003-2M10
HX-0057	Auto start/stop - steam - CAD cell - Auto start/stop option -when trigger gun is released, the timer will turn unit off; when trigger gun is pulled unit will restart; Steam option - reduces pressure to 350-PSI by adjusting unloader valve counter-clockwise, spray temperatures will rise 240°F above ambient with a maximum of 300°F; CAD cell option - monitors burner for proper ignition	HSE-1002-2M11 & HSE-1002-2M10
HX-0058	Auto start/stop - steam - CAD cell - See HX-0057 for option description	HSE-1502-2M10
HX-0059	Auto start/stop - steam - CAD cell - See HX-0057 for option description	HSE-2003-2M10
HX-0070	Auto start/stop - See HX-0050 for option description	2500 to 3500-PSI models
HX-0071	Auto start/stop - steam - See HX-0052 for option description	2500-PSI models
HX-0072	Auto start/stop - steam - See HX-0052 for option description	3000-PSI models
HX-0073	Auto start/stop - steam - See HX-0052 for option description	3500-PSI models
HX-0074	Auto start/stop - CAD cell - See HX-0055 for option description	2500 to 3500-PSI models
HX-0075	Auto start/stop - steam - CAD cell - See HX-0057 for option description	2500-PSI models
HX-0076	Auto start/stop - steam - CAD cell - See HX-0057 for option description	3000-PSI models
HX-0077	Auto start/stop - steam - CAD cell - See HX-0057 for option description	3500-PSI models
HX-0085	460V - Upgrades 230V 3-phase models to operate at 460V 3-phase	HSE-2504-0M30
HX-0086	460V - Upgrades 230V 3-phase models to operate at 460V 3-phase	HSE-3004-0M30
HX-0087	460V - Upgrades 230V 3-phase models to operate at 460V 3-phase	HSE-3504-0M30
HX-0088	Skid feet - Stationary applications	2500 to 3500-PSI models
HX-0161	Hour meter - Displays number of hours unit has been in operation	2000 to 3500-PSI models
HX-0214	Hour meter - Displays number of hours unit has been in operation	1000 to 1500-PSI models
TX-1004-W	Puncture-proof tires - Tires are flat-free and maintenance-free, 10-inch, white hub, four tires	1000 to 2000-PSI models
TX-1304-W	Puncture-proof tires - Tires are flat-free and maintenance-free, 13-inch, white hub, four tires	2500 to 3000-PSI models

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03012012

Distributed by:

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