

All-Electric Steam Cleaners, Hot Pressure Washers and Combination Cleaners

**Safe Dependable
Rugged
Equipment for
Demanding Cleaning
Applications**



When Safety is a Top Priority... Sioux “Certified for Safety” equipment is the answer.

OSHA regulation 1910.303(a) requires that all electrical equipment be third-party certified for safety by a Nationally Recognized Testing Laboratory such as Electrical Testing Laboratory (ETL).

Sioux's entire line of All-Electric steam cleaners, pressure washers, and combination cleaners are ETL listed, which certifies that this equipment meets Underwriters Laboratory UL-1776 standard, “High Pressure Cleaning Machines”; and the Canadian Standards Association CSA C-22.2 No. 68-92 standard, “Motor-Operated Appliances, Commercial”.

Sioux's explosion-proof models are also ETL certified under UL-1203, “Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for use in Hazardous (Classified) Locations”, and Canadian CSA C22.2 No. 30-92.

Buying only “third-party certified” equipment is an important benefit and protection for you, and should be an important part of your purchasing decision.

- It is the law in the workplace [OSHA regulation 1910.303(a)] that electrical equipment must be third-party certified. Failure to comply could result in penalties of \$5,000 or more.
- Employees depend on their company to provide a safe working environment. Insisting on third-party certified equipment is an important part of a safe working environment.
- Accidents due to unsafe equipment can lead to costly litigation. Minimize this possibility by purchasing only third-party certified equipment. Protect yourself, your company, and your employees. Sioux All-Electric steam cleaners, hot and cold pressure washers, and combination cleaners are “certified for safety.”

Clean Air Assurance

Sioux's All-Electric steam cleaners, pressure washers and combination cleaners are ideal for indoor/outdoor use, and in potentially hazardous environments. Unlike fuel-fired washers, Sioux's All-Electric line produces no fumes, exhaust or open flames. This makes our cleaners well-suited for indoor applications and enclosed spaces where air quality is a concern.

Powerful, Non-Stop Cleaning Capability

You can operate Sioux All-Electric cleaners continuously without a decrease in discharge water temperature. Sioux uses an immersion heater design in which water is heated as it passes through a heating vessel. No preheating or recovery time is required which means hot water is available within several minutes (no time is wasted waiting for a storage reservoir to heat). The Sioux design assures a constant discharge water temperature so cleaning effectiveness is not compromised.

Easy to Install and Operate

Our All-Electric cleaners are designed with a minimal number of controls and moving parts, making them simple to operate and easy to service. Our All-Electric line makes set-up easy, requiring only an electrical hookup and a water supply. We use over-sized components that operate below full capacity, resulting in longer, trouble-free operation. Sioux maintains a full-service Parts Department and a Technical Services Department to support its equipment.



All-Electric Steam Cleaners are

ideal for melting grease and oil, as well as sterilizing, disinfecting, degreasing and degasing. Low pressure saturated steam is great for stripping loose paint or preparing surfaces before painting or other treatments. Steam also flushes away chemicals and poisons, dissolves resins, paraffin and tars, de-ices, and kills algae and mildew.

All-Electric Hot Pressure Washers produce high pressure

hot water to blast away grime, encrusted dirt and oily films. High pressure hot water greatly increases the cleaning power of detergents and chemicals. Cold pressure wash is available for rinsing by turning off the heating element.

Explosion-Proof Cleaners Specially Designed for Hazardous Locations

Sioux's Explosion-Proof cleaners are rugged, durable cleaners designed for use in hazardous environments, where safety is critical. These cleaners feature explosion-proof components, and a heavy-duty sealed cast aluminum enclosure with galvanized steel conduit. Explosion-Proof construction is available on Sioux's entire line of All-Electric steam cleaners, hot/cold pressure washers and combination cleaners.

This equipment meets the National Electric Code (NEC) and complies with OSHA Regulation 1910.303(a).



Sioux Explosion-Proof Cleaners are approved for use in the following classifications:

Class I Flammable Gases or Vapors

- Division 1** Concentrations of Gases or Vapors exist under normal operating conditions
- Division 2** Concentration of Gases or Vapors are normally prevented
 - Group C** Atmospheres such as Cyclopropane, Ethyl Ether, Ethylene, or gases or vapors equivalent in hazard.
Note: Equipment must be special ordered with Group C motor.
 - Group D** Atmospheres such as Acetone, Alcohol, Ammonia, Benzene, Benzol, Butane, Gasoline, Hexane, Lacquer solvents, Naphtha, Natural Gas, Propane, or gases or vapors equivalent in hazard.

All models (steam cleaners, hot pressure washers, and combination units) with the explosion-proof option meet Class I, Division 1 and 2, Group C and D.

Class II Explosive Dusts

- Division 1** Explosive dusts exist under normal operating conditions.
- Division 2** Explosive dusts are normally prevented.
 - Group E** Atmospheres containing metal dust and other combustible dusts including aluminum, magnesium, and their commercial alloys, and other metals of similarly hazardous characteristics.
Note: Not appropriate for atmospheres containing Uranium, Thorium, or Zirconium dust.
 - Group F** Carbon black, charcoal, coal, or coke and similar materials.

Only hot pressure washers with the explosion-proof option will meet requirement for Class II, Division 1 and 2, Group E and F.

Consider these Benefits...

Electrical system includes water-tight NEMA 4 enclosures, internal branch circuit fusing and components that meet NEC standards. Motor starters have thermal protection, and switches and indicator lights are oil-tight.

Flanged heating element is constructed of Incoloy® sheathed element rods, enclosed in a flanged, hydrostatically-tested housing. The flanged heating units are used on all H4 and H8 cleaners operating below 1,200 psi.

High pressure H8 cleaners (1,200 psi through 3,000 psi) are equipped with the patented **encapsulated heating element** to reduce weight and offer better stability.

Advanced temperature control system (optional) allows users to select an exact temperature for optimum cleaning efficiency.

Cleaning nozzles: Our steam cleaners are equipped with one steam nozzle. Hot/cold pressure washers include three wash tips for a variety of cleaning applications; combination cleaners include one steam nozzle and three wash tips.

Hose reel (optional) provides convenient hose storage. Reel attaches to standard bracket furnished on all cleaners.

Finish is powder coat paint for a durable, long-lasting finish.

Detergent delivery system includes detergent injector or a detergent metering valve.

Machine disconnect switch (optional) allows users to shut off power at the machine for safer servicing.



Frame design allows convenient access to internal components for fast and easy maintenance.

- Frames are the most rugged in the industry. Heavy-duty welded steel construction offers years of worry-free service.
- All components are protected within the frame, and controls are protected by a guard.
- Dual lifting eyes provide balanced hoisting for increased user safety.
- Heavy-duty gun, hose and power cord racks provide safe, convenient storage; protect these components from damage, and eliminate a tripping hazard.
- Mounting options include casters, skid or stationary, depending on your application.

Accessories Available to Customize Your Cleaner

The following accessories can be ordered on any Sioux All-Electric cleaner, unless otherwise specified.

Hose and Hose Accessories

Hose—3/8" x 50' single wire-braid.

Hose—3/8" x 50' 2-wire braid.

Hose—3/8" x 25' single wire-braid.

Hose—1/2" x 25' single wire-braid.

Hose—1/2" x 50' single wire-braid.

Brass 50° Fan Nozzle. For all steam cleaners and combination units.

Quick Coupler—3/8". For any 3/8" hose.

Quick Coupler—1/2". For any 1/2" hose.

Hose Reel—Manual crank rewind.

Hose Reel—Spring rewind.

Hose Reel—Motor-driven rewind.

Optional Accessories

Shut-Off Gun—For All-Electric steam cleaners and combination units.

Downstream Chemical Injection—Injects chemicals downstream of pump and heating system. Use on hot pressure washers. Factory installation.

Alternate Electricals—Electrical voltage and frequency other than listed standards. Consult factory. Factory installation.

Time Delay—Delays shutdown of water pump to cool heating element. Factory installation.

Hour Meter—Records operating time. Electrically operated. Factory installation.

Wheels—4"x16" with semi-pneumatic tires. Factory installation.

Machine Disconnect Switch—Factory installation.

Internal Circuit Breakers (in place of standard fuses)—Factory installation.

Discharge hose is high pressure type, and includes fittings. Steam cleaners and combination cleaners include 25' of hose; hot/cold pressure washers include 50' of hose.

Tanks (inlet water float and detergent) are stainless steel to prevent rust, and include valves to prevent overflow and backflow.

Shut-off gun stops hot water or steam discharge when the trigger is released. This feature increases operator safety and reduces energy and water usage. Shut-off guns are standard on pressure washers. An optional shut-off gun is available for steam cleaners and combination units.

Water pump motor is totally enclosed, fan cooled with thermal overload protection. Motor is V-belt driven.

Water pumps are a ceramic multi-plunger type with forged bronze heads, positive displacement, and are oil-bath lubricated with stainless steel valves.

Water system features an anti-siphoning valve to prevent detergent from getting into the water supply. System includes fine mesh strainers, and replaceable detergent and water lines for easy servicing.

Additional standard features include high temperature limit switch, pressure relief valve and glycerin-filled gauge.



Steam Cleaner, Pressure Washer and Combination Cleaner Models

Steam Cleaner Ratings

- .6-3.8 GPM
- 325°F saturated steam at vessel discharge (212°F at gun nozzle discharge at sea level)
- 100 PSI

Model	GPM	KW	Amp Draw *
EN-40-S	.6	30	40
EN-55-S	.9	38	50
EN-90-S	1.5	60	78
EN-115-S	1.9	76	98
EN-230-S	3.8	152	194

*Based on 480/3/60 electricals. Contact factory for other electricals.

Hot/Cold Pressure Washer Ratings

- 2.5-8 GPM
- 600-3,000 PSI
- 130°F-145°F GPM

Model	GPM	Temp (°F)	PSI	KW	Amp Draw *
EN-140-H4-600	2.5	140	600	30	41
EN-175-H4-600	3.5	135	600	38	51
EN-270-H4-600	5.0	140	600	60	80
EN-345-H4-600	7.0	135	600	76	102
EN-140-H4-1200	2.5	140	1200	30	42
EN-175-H4-1200	3.5	135	1200	38	53
EN-270-H4-1200	6.0	130	1200	60	84
EN-345-H4-1200	8.0	125	1200	76	108
EN-140-H4-1800	2.5	140	1800	30	43
EN-175-H4-1800	3.5	135	1800	38	56
EN-270-H4-1800	6.0	130	1800	60	88
EN-345-H4-1800	6.0	145	1800	76	111
EN-140-H4-3000	2.5	140	3000	30	50
EN-175-H4-3000	3.5	135	3000	38	60
EN-270-H4-3000	5.0	140	3000	60	91
EN-345-H4-3000	7.0	135	3000	76	118

*Based on 480/3/60 electricals. Contact factory for other electricals.

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Hot/Cold Pressure Washer Ratings *(Continued from previous page)*

- 1.7-4.0 GPM
- 600-3,000 PSI
- 180°F

Model	GPM	Temp (°F)	PSI	KW	Amp Draw *
EN-100-H8-600	1.7	180	600	30	40
EN-120-H8-600	2.0	180	600	38	51
EN-190-H8-600	3.2	180	600	60	80
EN-240-H8-600	4.0	180	600	76	101
EN-100-H8-1200	1.7	180	1200	30	42
EN-120-H8-1200	2.0	180	1200	38	52
EN-190-H8-1200	3.2	180	1200	60	81
EN-240-H8-1200	4.0	180	1200	76	101
EN-120-H8-1800	2.0	180	1800	38	53
EN-240-H8-1800	4.0	180	1800	76	108
EN-120-H8-3000	2.0	180	3000	38	60
EN-240-H8-3000	4.0	180	3000	76	111

*Based on 480/3/60 electricals. Contact factory for other electricals.

Combination Cleaner Ratings

- Steam cleaning and pressure washing in one unit.
- Pressure Wash: 2-5.8 GPM, 600-1,200 PSI, 140°F or 180°F
- Steam Cleaning: .6-1.9 GPM, 325°F saturated steam at vessel discharge (212°F at gun nozzle discharge at sea level), 100 PSI

Model	STEAM CYCLE		HOT PRESSURE CYCLE			
	GPM	GPM	PSI	Temp (°F)	KW	Amp Draw *
EN-40/140-H4-600-XP	.6	2.3	600	140	30	41
EN-55/175-H4-600	.9	2.9	600	140	38	52
EN-90/270-H4-600	1.5	4.5	600	140	60	81
EN-115/345-H4-600	1.9	5.8	600	140	76	102
EN-40/100-H8-600	.6	1.7	600	180	30	41
EN-55/120-H8-600	.9	2.0	600	180	38	51
EN-90/190-H8-600	1.5	3.2	600	180	60	80
EN-115/240-H8-600	1.9	4.0	600	180	76	102
EN-40/100-H8-1200	.6	1.7	1200	180	30	42
EN-55/120-H8-1200	.9	2.0	1200	180	38	53
EN-90/190-H8-1200	1.5	3.2	1200	180	60	83
EN-115/240-H8-1200	1.9	4.0	1200	180	76	103

*Based on 480/3/60 electricals. Contact factory for other electricals.

Sioux All-Electric Cleaners

Designed for Safety, Reliability, Durability

- Third-party certified for safety, meeting UL and CSA standards.
- Ideal for areas where no flame, exhaust or contamination can be tolerated.
- Available in explosion-proof models for use in hazardous areas.
- Hot water is available fast and continuously.
- Heavy-duty construction and quality craftsmanship gives years of trouble-free cleaning.
- Easy to operate and easy to service.

Before ordering a Sioux All-Electric cleaner, have a qualified electrician verify that correct voltage and sufficient amperage are available to operate the machine. See specific unit requirements on "All-Electric Specifications" sheet. Performance ratings are based on 50°F inlet water temperature, 70°F air temperature at sea level. Performance and amperage draw may vary +/-10%. The corporation reserves the right to make such changes as deemed advisable which represent improvement of performance and/or reliability. For warranty specifications and limitations of Sioux Corporation, see Form #844. The information contained in this brochure does not constitute a warranty. ©Copyright 1998 Sioux Corporation. No portion of this literature may be reproduced without express written permission of Sioux Corporation.

Sioux is the industry leader in All-Electric cleaners and custom designs.

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