

DAKOTA II Series® Steam Cleaners and Pressure Washers

Sioux Dakota II Series

**Reliable, Rugged
Pressure Washers
& Steam Cleaners**



Model H5D3000



**DAKOTA II
SERIES®**

Consider these **Benefits...**

Superior Steam Cleaning Capabilities

320°F (160°C) pressurized water temperature before exiting the nozzle compared to other brands at only 250°F (121°C) or 290°F (143°C) which produces 58% to 333% more cleaning impact.

Electrical System Safety

Includes water-tight NEMA 4 electrical enclosure with components that meet NEC, UL and CSA standards. Switches and indicator lights are water tight.

TEFC Motor for Longevity

High quality totally enclosed, fan cooled (TEFC) with thermal overload protection.

Water Pump Built to Last

Ceramic multi-plunger type pump with forged bronze head, positive displacement, and is oil bath lubricated with stainless steel valves.

Application Flexibility

Units are approved for indoor or outdoor use. Units have low CO emissions providing improved air quality and less fuel usage.

Industrial Frame for Durability & Easy Maintenance

Allows convenient access to internal components for fast and easy maintenance.

- Heavy-duty welded structural grade steel frame provides years of trouble-free service. Machines are mounted on heavy-duty casters for portability.
- Inlet water float tank is stainless steel to minimize rust and includes a valve to prevent overflow and backflow.
- Components are protected within the frame.
- Dual lifting eyes provide balanced hoisting for increased user safety.
- Heavy-duty gun, hose and optional hose reel provide safe and convenient storage, protect these components from damage, and eliminate a tripping hazard.
- Power coat paint provides a durable, long-lasting finish.

Shut-off Gun for Increased Operator Safety

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 all units.

Digital Temperature Control System for Optimum Cleaning Efficiency

Allows users to select the temperature for each job for optimum cleaning efficiency. This includes a digital readout display module with up and down arrow keys for easily adjusting the operating temperature.

Additional Standard Features

- Flame monitoring burner control
- Unloader valve
- Pressure relief valve
- High pressure rupture disc
- Thermal relief valve
- Water flow switch
- 50' discharge hose
- Glycerin-filled pressure gauge
- Detergent metering valve
- Variety of cleaning nozzles
- Internal circuit breakers on 3 phase models
- GFCI power cord on 1 phase models
- Hour Meter
- Shutdown timer



Safety

All Standard Dakota II machines meeting the following recognized standards for safety and performance:

- OSHA regulation 1910.303(a) requiring electrical equipment to be third-party certified for safety by a Nationally Recognized Testing Laboratory
- Underwriters Laboratory Standard for Safety for High-Pressure Cleaning Machines, UL 1776 and for Industrial Control Panels, UL508a
- Canadian Standards Association Standard for Safety for Commercial/Industrial Pressure Washers and Steam Cleaners, CAN/CSA C22.2 #68 and for Industrial Control Equipment, CSA C22.2 #14
- National Electric Code (NEC) and Canadian Electric Code (CEC)



Meets CSA, UL, NEC, OSHA

Specification Summary

Steam Cleaner Ratings - 60 Hz

- 320°F (160°C) pressurized water temperature before discharge

Model	Standard Electricals Volt/Phase/Hz	Operating Current AMPS	Recommended Circuit Rating AMPS	GPM (LPM)	PSI (BAR)	HP (KW)	BTU/Hr (KW)
S2*250	115/1/60	14	15	2 (7.6)	250 (17.2)	0.75 (0.56)	340,000 (100)
S4*250	115/1/60	19	20	4 (15.1)	250 (17.2)	1 (0.75)	640,000 (188)
S6*250	230/1/60	17	20	6 (22.7)	250 (17.2)	1.5 (1.12)	898,000 (263)

*L for LP Gas N for Natural Gas D for Fuel Oil (Diesel)

High Pressure Hot Water Washer Ratings - 60 Hz

- 200°F (93.3°C) high pressure water temperature/320°F (160°C) steam temperature

Model	Standard Electricals Volt/Phase/Hz	Operating Current AMPS	Recommended Circuit Rating AMPS	High Pressure GPM (LPM)	Steam Mode GPM (LPM)	High Pressure PSI (BAR)	Steam Mode PSI (BAR)	HP (KW)	BTU/Hr (KW)
H3*750	115/1/60	18	20	3 (11.4)	1.5 (5.7)	750 (51.7)	250 (17)	1.5 (1.12)	250,000 (73)
H3.8*2000	230/1/60	26	30	3.8 (14.4)	1.9 (7.2)	2,000 (137.9)	500 (34)	5 (3.73)	320,000 (94)
H4*2750	230/3/60	26	30	4 (15.1)	2 (7.6)	2,750 (189.6)	500 (34)	7.5 (5.60)	340,000 (100)
H5*3000	230/3/60	34	40	5 (18.9)	2.5 (9.5)	3,000 (206.8)	500 (34)	10 (7.46)	408,000 (120)
H8*2750	460/3/60	25	30	8 (30.3)	4 (15.1)	2,750 (189.6)	500 (34)	15 (11.19)	650,000 (192)
H10*3000	460/3/60	34	40	10 (37.9)	5 (18.9)	3,000 (206.8)	500 (34)	20 (14.92)	810,000 (237)

*L for LP Gas N for Natural Gas D for Fuel Oil (Diesel)

Steam Cleaner Ratings - 50 Hz

- 320°F (160°C) pressurized water temperature before discharge

Model	Standard Electricals Volt/Phase/Hz	Operating Current AMPS	Recommended Circuit Rating AMPS	GPM (LPM)	PSI (BAR)	HP (KW)	BTU/Hr (KW)
S1.7*250	220/1/50	9	15	1.7 (6.4)	250 (17.2)	0.5 (0.37)	280,000 (82)
S3.3*250	220/1/50	13	15	3.3 (12.5)	250 (17.2)	0.75 (0.56)	524,000 (154)
S5*250	220/1/50	15	20	5 (18.9)	250 (17.2)	1 (0.75)	750,000 (220)

*L for LP Gas N for Natural Gas D for Fuel Oil (Diesel)

High Pressure Hot Water Washer Ratings - 50 Hz

- 200°F (93.3°C) high pressure water temperature/320°F (160°C) steam temperature

Model	Standard Electricals Volt/Phase/Hz	Operating Current AMPS	Recommended Circuit Rating AMPS	High Pressure GPM (LPM)	Steam Mode GPM (LPM)	High Pressure PSI (BAR)	Steam Mode PSI (BAR)	HP (KW)	BTU/Hr (KW)
H2.5*600	220/1/50	10	15	2.5 (9.5)	1.25 (4.7)	600 (41.34)	250 (17)	1 (0.75)	210,000 (62)
H3.2*1400	220/1/50	21	30	3.2 (12.1)	1.6 (6.1)	1,400 (96.5)	250 (17)	3 (2.24)	270,000 (79)
H3.3*2200	380/3/50	12	20	3.3 (12.5)	1.65 (6.2)	2,200 (151.7)	500 (34)	5 (3.73)	280,000 (82)
H4.2*2600	380/3/50	19	30	4.2 (15.9)	2.1 (7.9)	2,600 (179.3)	500 (34)	7.5 (5.60)	346,000 (101)
H6.7*2200	380/3/50	22	30	6.7 (25.4)	3.35 (12.7)	2,200 (151.7)	500 (34)	10 (7.46)	545,000 (160)
H8.3*2600	380/3/50	32	40	8.3 (31.4)	4.15 (15.7)	2,600 (179.3)	500 (34)	15 (11.19)	672,000 (197)

*L for LP Gas N for Natural Gas D for Fuel Oil (Diesel)

Accessories

Available Options to Customize Your Cleaner

Walter's™ Heavy-Duty Steam Guns - Rated to 1500 PSI (103 BAR) and 450°F (232°C). Designed to withstand the most severe conditions. See Walter's SteamGun Flyer for complete details.

4x16 wheel kit - 4"x16" wheel kit with tow handle and brakes – Provides increased mobility over rough and uneven terrain.

Hose Reel - Manual crank hose reel with mounting bracket & jumper hose.

Single or Dual LP Gas Bottle Rack - Rack bolts onto machine frame and includes LP gas hose and two-stage regulator.

Selecting a Pressure Washer or Steam Cleaner

All Sioux Pressure Washers and Steam Cleaners are designed for optimum performance and reliability in the most demanding environments. When deciding which pressure washer, steam cleaner or combination unit to purchase it is important to look at all the facts.

Pressure vs. Flow - Increased flowrate has a greater cleaning impact than an increased pressure as can be seen in the chart below.

THEORETICAL POUNDS OF IMPACT

	GPM															
	0.5	1.5	2	2.1	3	3.8	4	5	6	8	10	12	16	20		
250	0.42	1.25	1.66	1.75	2.50	3.16	3.33	4.16	4.99	6.65	8.32	9.98	13.31	16.63		
300	0.46	1.37	1.82	1.91	2.73	3.46	3.64	4.56	5.47	7.29	9.11	10.93	14.58	18.22		
400	0.53	1.58	2.10	2.21	3.16	4.00	4.21	5.26	6.31	8.42	10.52	12.62	16.83	21.04		
500	0.59	1.76	2.35	2.47	3.53	4.47	4.70	5.88	7.06	9.41	11.76	14.11	18.82	23.52		
600	0.64	1.93	2.58	2.71	3.87	4.90	5.15	6.44	7.73	10.31	12.88	15.46	20.61	25.77		
700	0.70	2.09	2.78	2.92	4.17	5.29	5.57	6.96	8.35	11.13	13.92	16.70	22.27	27.83		
750	0.72	2.16	2.88	3.03	4.32	5.47	5.76	7.20	8.64	11.52	14.41	17.29	23.05	28.81		
800	0.74	2.23	2.98	3.12	4.46	5.65	5.95	7.44	8.93	11.90	14.88	17.85	23.80	29.76		
1000	0.83	2.50	3.33	3.49	4.99	6.32	6.65	8.32	9.98	13.31	16.63	19.96	26.61	33.27		
1200	0.91	2.73	3.64	3.83	5.47	6.92	7.29	9.11	10.93	14.58	18.22	21.87	29.15	36.44		
1500	1.02	3.06	4.07	4.28	6.11	7.74	8.15	10.19	12.22	16.30	20.37	24.45	32.60	40.74		
2000	1.18	3.53	4.70	4.94	7.06	8.94	9.41	11.76	14.11	18.82	23.52	28.23	37.64	47.05		
2500	1.32	3.95	5.26	5.52	7.89	9.99	10.52	13.15	15.78	21.04	26.30	31.56	42.08	52.60		
2750	1.38	4.14	5.52	5.79	8.28	10.48	11.03	13.79	16.55	22.07	27.58	33.10	44.13	55.17		
3000	1.44	4.32	5.76	6.05	8.64	10.95	11.52	14.41	17.29	23.05	28.81	34.57	46.10	57.62		
3400	1.53	4.60	6.13	6.44	9.20	11.65	12.27	15.34	18.40	24.54	30.67	36.80	49.07	61.34		
3500	1.56	4.67	6.22	6.53	9.34	11.83	12.45	15.56	18.67	24.89	31.12	37.34	49.79	62.24		
5000	1.86	5.58	7.44	7.81	11.16	14.13	14.88	18.60	22.32	29.76	37.19	44.63	59.51	74.39		

FT LBS = 0.0526 X GPM X PSI

Cleaning Impact vs. Water Temperature - All steam cleaners are not equal in performance. See the chart below for the increased cleaning performance for Sioux's 320°F steam vs. competitors lower temperature steam

Competitor's Lower Water Temperature (measured prior to nozzle)	Sioux Cleaning Impact of 320°F (% Increase)
300°F (=149°C)	+34%
290°F (=143°C)	+58%
280°F (=138°C)	+118%
265°F (=130°C)	+167%
250°F (=121°C)	+338%

Performance ratings are based on 60°F (15.5°C) inlet water temperature and 70°F (21.1°C) air temperature at sea level. Performance and continuous operating current may vary +/-5%. Sioux Corporation reserves the right to make such changes as deemed advisable, or which represent improvement of performance and/or reliability. For warranty specifications and limitations see form #847. The information contained in this brochure does not constitute a warranty. Copyright 2015 Sioux Corporation. No portion of this literature may be reproduced without express written permission of Sioux Corporation.

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