SIMONEAU

EVOLTA ELECTRIC HOT WATER BOILER

EV66

Engineered by Simoneau

Ecofriendly

Manufactured in Canada

TO FIND YOUR LOCAL REPRESENTATIVE

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eVOLTA ELECTRIC HOT WATER BOILER

THE COMPACT, ENERGY-EFFICIENT, AND ENVIRONMENTALLY FRIENDLY BOILER

Engineered to deftly handle today's industrial heating needs for various sectors, the eVolta® is Simoneau's innovative electric steam boiler that can help you reach your decarbonization goals.

Just like all our boiler solutions, the eVolta® is built using the latest in boiler innovations and in compliance with our strict manufacturing standards.

With the eVolta®, you're tapping into maximized energy efficiency and actively reducing your carbon footprint thanks in part to its dual energy capacity – allowing you for example to use your building's energy source for the ramping-up process or for overnight standby maintenance.

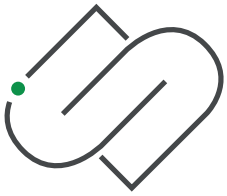
THE EVOLTA® ADVANTAGE

ENVIRONMENTALLY FRIENDLY

No greenhouse gas emissions, helping you achieve your decarbonization goals. Allows you to use clean energy made in Canada.

HIGH ENERGY EFFICIENCY

Coefficient of performance (COP) of 0.99 over the entire operating range, with infinitely variable modulation. For peak power management, the eVolta® allows you to generate energy at lower cost.



DESIGNED, BUILT AND TESTED BY OUR EXPERTS

Designed by a multidisciplinary team with over 30 years' experience in designing and manufacturing industrial energy generation equipment. Manufactured in our plant based in Canada, maximizing local parts/materials and in-house technical support. Factory-tested and CSA SPE 1000 certified before delivery.

COMPONENT FLANGES DESIGNED AND MANUFACTURED LOCALLY

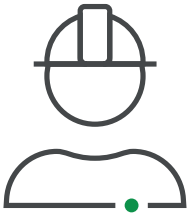
A perfect combination between boiler and components for optimal performance. GSI caries an inventory of components to quickly supply flanges, reducing in turn downtime. Components are soldered to the flanges to eliminate the possibility of leaks during operations, ensuring longer shelf life.

SILENT OPERATION

The eVolta® has no moving parts. It's ideal for healthcare centres and schools, among others.

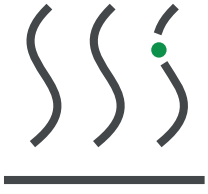
LOW OPERATING & MAINTENANCE COST

The eVolta®'s heating elements can be easily accessed and replaced. No combustion and no moving parts ensure easy and low-cost maintenance.



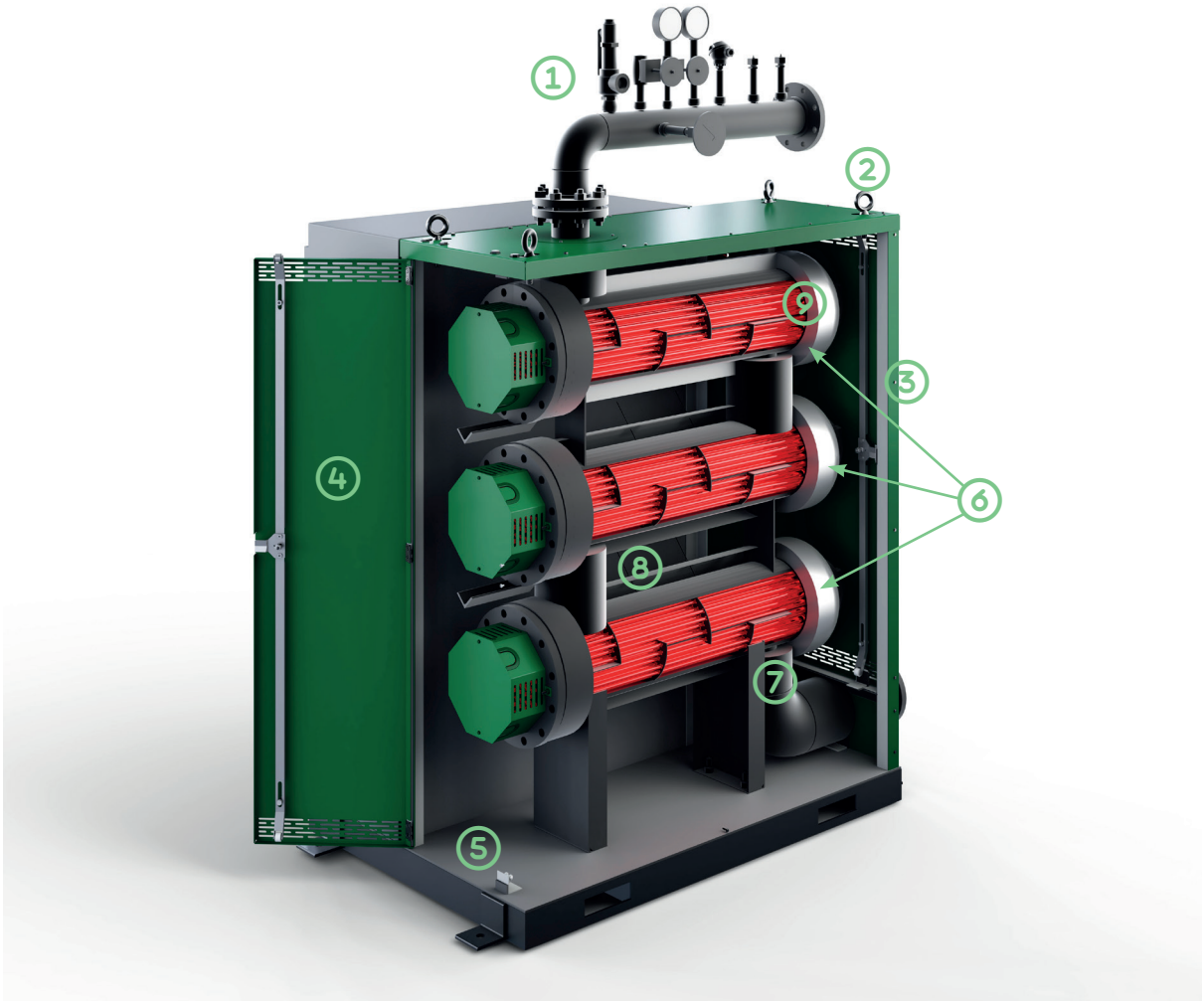
EASY, LOW-COST INSTALLATION

No need for chimneys or fuel supply piping, allowing for optimal maneuvering in the boiler room. The boiler can operate at very low temperatures without the risk of condensation. No neutralization tank required.



HOT WATER BOILER

Hot water boilers have a smaller footprint and are lighter. They use less water and can heat up at quicker speeds to respond to fluctuations. It's designed to withstand thermal stress and can be configured for hot water, mixed water/glycol or thermal fluid.



1. Control and safety elements shop-mounted and tested
2. Sturdy lifting lugs for safe handling
3. Aluminum outer casing
4. Large access door for easy inspection and maintenance
5. Industrial grade support structure
6. Inconel sheathed elements with a maximum heat density of 75 Watt/in^2 mounted on flanges with their own Canadian Registration Numbers (C.R.N.). Flanges positioned to generate steam evenly over the entire water surface
7. Pressure vessel designed per latest edition of the ASME code with its own Canadian Registration Number (C.R.N.)
8. 2" mineral insulation of 6 lb/ft3 density with air gap minimizing radiation losses (≤ 70 W/m^2)
9. Water volume to quickly respond to fluctuating energy demands

CHARACTERISTICS

APPLICATIONS

Hot water	
Glycol water mixture	
Thermal fluid	
Capacity	50 to 4 180 kW*
Voltage	480V OR 600V

* 4 470 kW to 480 V

ABOUT SIMONEAU INC.

Experienced team of engineers and technicians specialized in innovative products designed to help customers reach their decarbonization objectives
Company dedicated to customer satisfaction, providing 24/7 support throughout the entire product lifecycle
Woman-owned family business that promotes innovation, passion, respect, and humanity
The company is looking to the future by fully embracing decarbonization principles

CERTIFICATIONS

Registered at the National Board (NB) (except in Québec)
Container and components ASME and CRN compliant
Packaging, panel and controls CSA and UL compliant

ÉCORESPONSABILITÉ

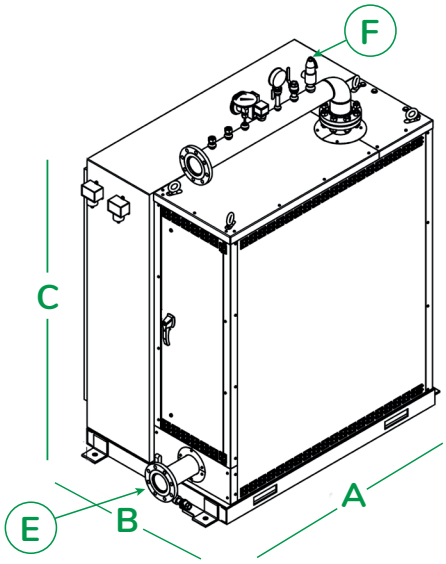
The boiler produces no greenhouse gas emissions
Each hour of use reduces greenhouse gas emissions by 0.25kg/kW compared to an equivalent natural gas boiler*
To minimize the environmental impact while still providing high quality systems, we've implemented a process to reduce our equipment's carbon footprint

*0.35 kg/kW compared to a diesel boiler

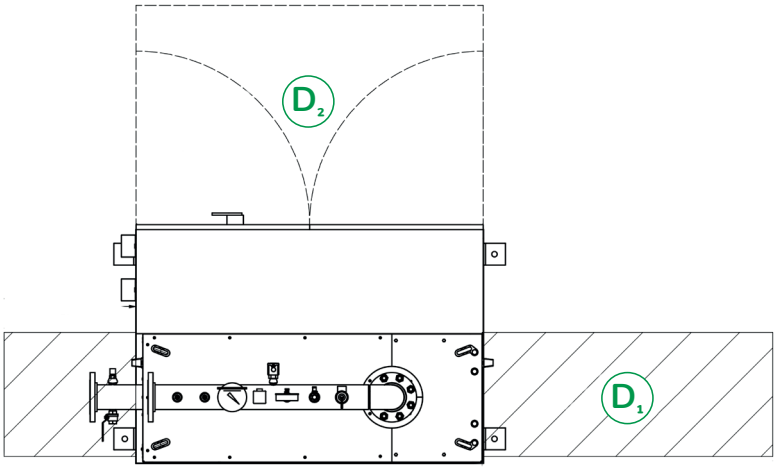
SELECTION CHART

	MODEL			
VOLTAGE	EV6613	EV6623	EV6633	EV6643
600V KW	50 to 1 050	1090 to 2090	2290 to 3140	3330 to 4180
480V KW	50 to 1 120	1170 to 2230	2450 to 3350	3560 to 4470

DIMENSIONS CHART



TOP VIEW



		MODEL			
		EV6613	EV6623	EV6633	EV6643
DIMENSIONS*					
A	Length	$49^{11/16}$	$90^{15/16}$	$71^{1/4}$	103
B	Width	$62^{1/2}$	$90^{15/16}$	$120^{1/4}$	$142^{1/8}$
C	Height	$98^{3/16}$	$93^{3/16}$	$110^{7/16}$	$106^{7/16}$
D_1	Clearance to remove elements	53	53	53	53
D_2	Clearance panel	40	40	40	40
OPENINGS*					
E	Feedwater inlet	4	6	8	8
F	Safety valve HPS	1	$1^{1/4}$	$1^{1/2}$	2

*dimensions en pouces

KW STAGES

600V CAPACITY

KW	STAGES
50	1 x 50kW
100	2 x 50kW
150	3 x 50kW
200	4 x 50kW
250	5 x 50kW
300	6 x 50kW
350	7 x 50kW
400	8 x 50kW
450	9 x 50kW
500	5 x 100kW
550	4 x 100kW + 1 x 150kW
600	6 x 100kW
650	5 x 100kW + 1 x 150kW
700	7 x 100kW
750	6 x 100kW + 1 x 150kW
800	8 x 100kW
850	7 x 100kW + 1 x 150kW
900	9 x 100kW
950	8 x 100kW + 1 x 150kW
1 000	10 x 100kW
1 050	9 x 100kW + 1 x 150kW
1 090	11 x 100kW
1 140	10 x 100kW + 1 x 150kW
1 190	12 x 100kW
1 240	11 x 100kW + 1 x 150kW
1 290	13 x 100kW
1 340	12 x 100kW + 1 x 150kW
1 390	14 x 100kW
1 440	13 x 100kW + 1 x 150kW
1 490	15 x 100kW
1 540	14 x 100kW + 1 x 150kW
1 590	16 x 100kW
1 640	15 x 100kW + 1 x 150kW
1 690	17 x 100kW
1 740	16 x 100kW + 1 x 150kW
1 790	18 x 100kW
1 840	17 x 100kW + 1 x 150kW
1 890	19 x 100kW
1 940	18 x 100kW + 1 x 150kW
1 990	20 x 100kW
2 040	19 x 100kW + 1 x 150kW
2 090	21 x 100kW

KW STAGES

600V CAPACITY

KW	STAGES
2 290	23 x 100kW
2 540	24 x 100kW + 1 x 150kW
3 040	19 x 150kW x 1 x 200kW
3 140	21 x 150kW
3 330	21 x 150kW + 1 x 200kW
3 680	23 x 150kW + 1 x 200kW
4 180	28 x 150kW

KW STAGES

480V CAPACITY

KW	STAGES
50	2 x 27kW
110	4 x 27kW
160	6 x 27kW
210	8 x 27kW
270	5 x 54kW
320	6 x 54kW
370	7 x 54kW
430	8 x 54kW
480	9 x 54kW
530	5 x 81kW + 1 x 135kW
590	6 x 81kW + 1 x 108kW
640	9 x 81kW
690	7 x 81kW + 1 x 135kW
740	8 x 81kW + 1 x 108kW
800	10 x 81kW
850	9 x 81kW + 1 x 135kW
900	10 x 81kW + 1 x 135kW
960	12 x 81kW
1 010	11 x 81kW + 1 x 135kW
1 060	12 x 81kW + 1 x 108kW
1 120	14 x 81kW
1 170	13 x 81kW + 1 x 135kW
1 220	14 x 81kW + 1 x 108kW
1 280	16 x 81kW
1 330	15 x 81kW + 1 x 135kW
1 380	16 x 81kW + 1 x 108kW
1 440	18 x 81kW
1 490	17 x 81kW + 1 x 135kW
1 540	18 x 81kW + 1 x 108kW
1 600	20 x 81kW
1 650	19 x 81kW + 1 x 135kW
1 700	20 x 81kW + 1 x 108kW

KW STAGES

480V CAPACITY

KW	STAGES
1 760	22 x 81kW
1 810	21 x 81kW + 1 x 135kW
1 860	22 x 81kW + 1 x 108kW
1 910	24 x 81kW
1 970	23 x 81kW + 1 x 135kW
2 020	24 x 81kW + 1 x 108kW
2 070	18 x 108kW + 1 x 162kW
2 130	20 x 108kW
2 180	19 x 108kW + 1 x 162kW
2 230	21 x 108kW
2 450	23 x 108kW
2 710	24 x 108kW + 1 x 162kW
3 240	29 x 108kW + 1 x 162kW
3 350	32 x 108kW + 1 x 162kW
3 560	31 x 108kW + 1 x 162kW
3 940	37 x 108kW
4 470	42 x 108kW