

SIMONEAU



EVOLTA

ELECTRIC
STEAM BOILER

EV60



Engineered by Simoneau



Ecofriendly



Manufactured in Canada

TO FIND YOUR LOCAL REPRESENTATIVE

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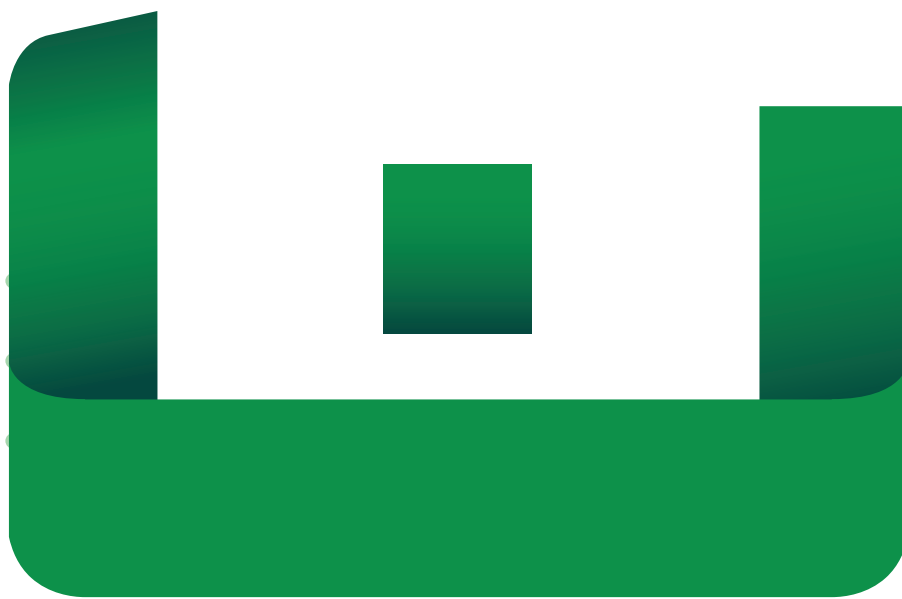
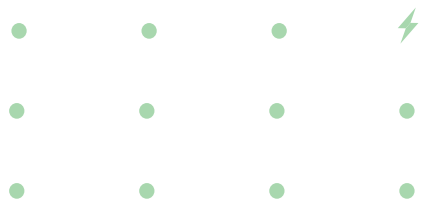
EVOLTA **ELECTRIC STEAM BOILER**

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. It incorporates all the features needed to generate high-grade steam quality while eliminating the risk of carryover.

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



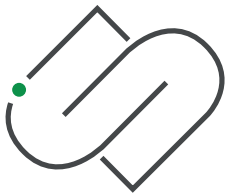
ENVIRONMENTALLY FRIENDLY

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.



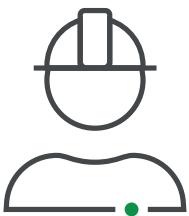
DESIGNED, BUILT AND TESTED BY OUR EXPERTS

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 carries 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.



EASY, LOW-COST INSTALLATION

No need for chimneys or fuel supply piping, allowing for optimal maneuvering in the boiler room. Also, no condensate to manage.



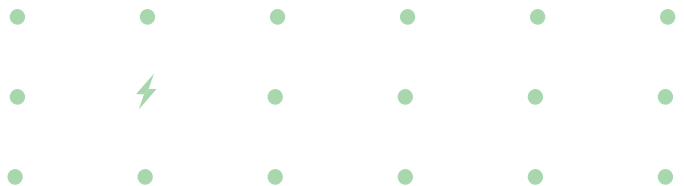
LOW OPERATING & MAINTENANCE COST

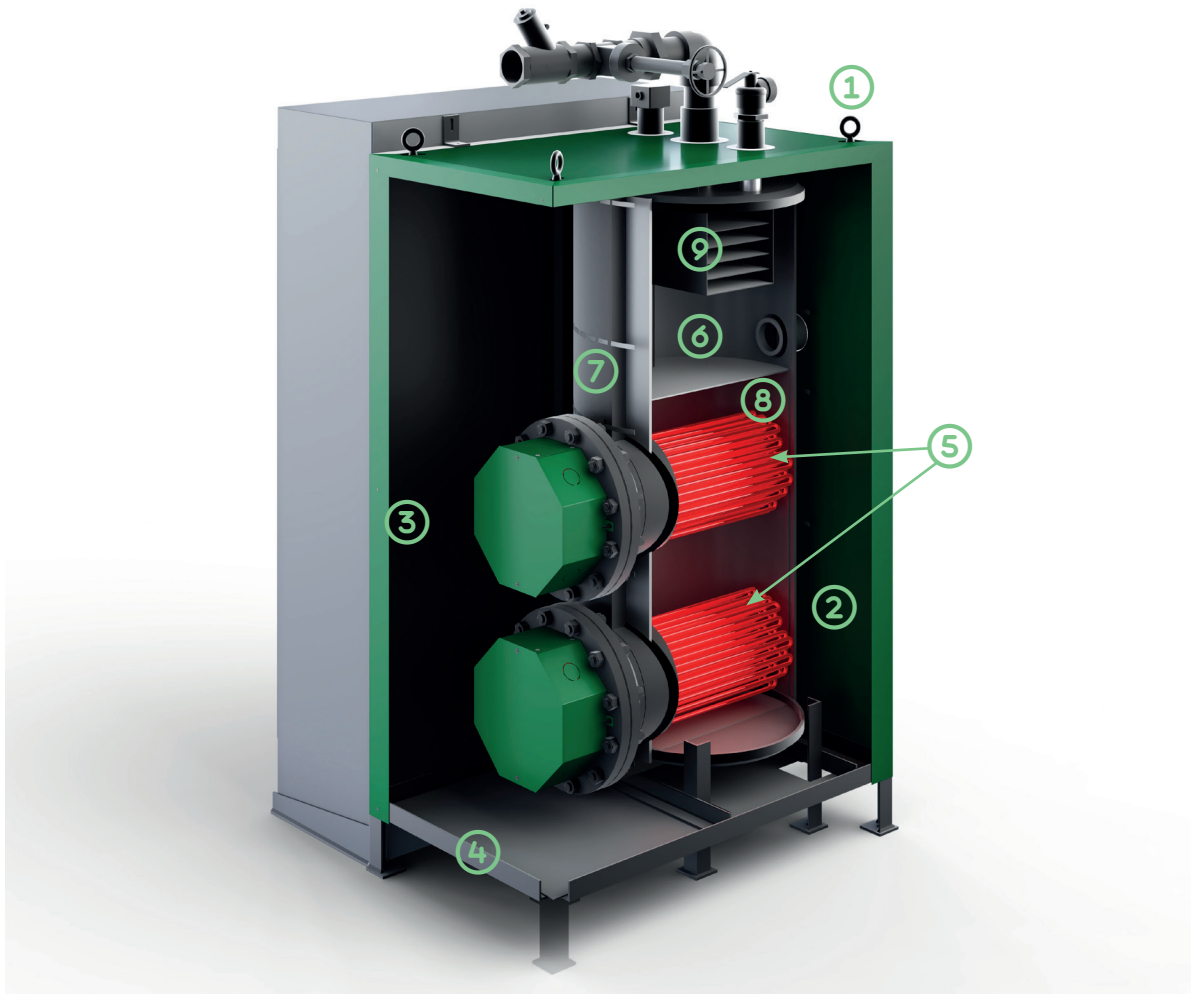
The eVolta®'s heating elements can be easily accessed and replaced. No combustion and no moving parts ensure easy and low-cost maintenance.



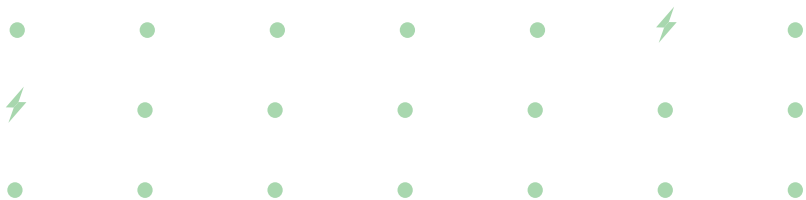
SILENT OPERATION

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





- ① Sturdy lifting lugs for safe handling
- ② Aluminum outer casing
- ③ Large access door for easy inspection and maintenance
- ④ Industrial grade support structure
- ⑤ Inconel sheathed elements with a maximum heat density of 75 Watt/in² mounted on flanges with their own Canadian Registration Numbers (C.R.N.). Flanges positioned to generate steam evenly over the entire water surface
- ⑥ Pressure vessel designed per latest edition of the ASME code with its own Canadian Registration Number (C.R.N.)
- ⑦ 2" mineral insulation of 6 lb/ft³ density with air gap minimizing radiation losses ($\leq 70 \text{ W/m}^2$)
- ⑧ Water volume to quickly respond to fluctuating energy demands
- ⑨ Integral separation system producing a steam quality of 99.5%



CHARACTERISTICS

APPLICATIONS

Low-pressure steam	≤ 15 psi
High-pressure steam	≤ 150 psi*
Capacity	80 to 1 200 kW**
Voltage	480V OR 600V

* very high pressure available on request, > 150 psi

** 1 300 kW to 480V

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

ENVIRONMENTAL RESPONSIBILITY

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*

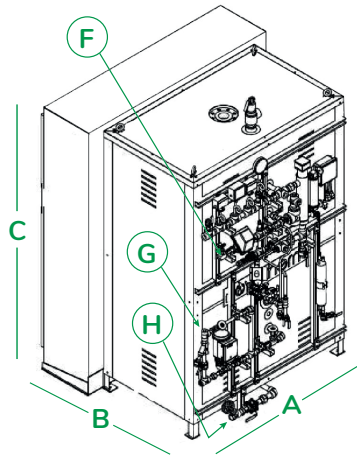
To minimize the environmental impact while still providing high quality systems, we've implemented a process to reduce our equipment's carbon footprint

*0.35 kg/kW compared to a diesel boiler

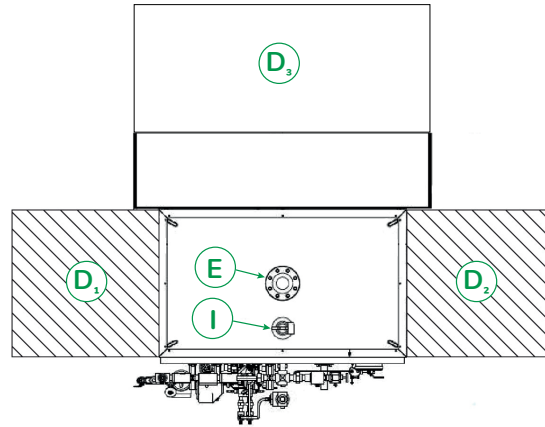
SELECTION CHART

VOLTAGE	MODEL			
	EV60E	EV60F	EV60G	EV60G+
600V KW	80 to 320 kW	360 to 480 kW	500 to 900 kW	950 to 1 200 kW
480V KW	80 to 320 kW	360 to 480 kW	500 to 1 000 kW	1 100 to 1 300 kW

DIMENSIONS CHART



TOP VIEW



MODEL

DIMENSIONS*

		EV60E	EV60F	EV60G	EV60G+
A	Length	50	50	74	74
B	Width	66	66	75	75
C	Height	78	78	91	98
D ₁	Clearance to remove elements	31	31	36	36
D ₂	Clearance to remove elements	-	-	36	36
D ₃	Clearance panel	40	40	40	40
	Shipping weight (lbs)	3000	3000	3500	3500

OPENINGS*

E	Steam outlet HPS	2	2	3	4
E	Steam outlet LPS	3	3	4	4
F	Continuous blowdown	0.75	0.75	0.75	0.75
G	Feedwater inlet	0.75	0.75	1	1
H	Bottom blowoff HPS	1	1	1	1
H	Bottom blowoff LPS	1	1.25	1.5	1.5
I	Safety valve HPS	1	1.25	2	2 x 2**
I	Safety valve LPS	1.5	1.5	2	2 x 2**

*dimensions in inches

** a 2nd safety valve is required above 1,100 kW

KW STAGES

600V CAPACITY

KW	STAGES
80	2 x 40kW
120	3 x 40kW
160	4 x 40kW
200	5 x 40kW
240	6 x 40kW
280	7 x 40kW
320	8 x 40kW
360	9 x 40kW
400	5 x 80kW
440	4 x 80kW + 1 x 120kW
480	6 x 80kW
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
1 100	11 x 100kW
1 200	12 x 100kW

KW STAGES

480V CAPACITY

KW	STAGES
80	2 x 40kW
120	3 x 40kW
160	4 x 40kW
200	5 x 40kW
240	6 x 40kW
280	7 x 40kW
320	8 x 40kW
360	9 x 40kW
400	5 x 80kW
440	4 x 80kW + 1 x 120kW
480	6 x 80kW
500	6 x 66kW + 1 x 99kW
600	9 x 66kW
700	9 x 66kW + 1 x 99kW
800	12 x 66kW
900	12 x 66kW + 1 x 99kW
1 000	15 x 66kW
1 100	15 x 66kW + 1 x 99kW
1 200	18 x 66kW
1 300	18 x 66kW + 1 x 99kW