SIMONEAU

EVOLTA ELECTRIC STEAM BOILER

EV63

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.

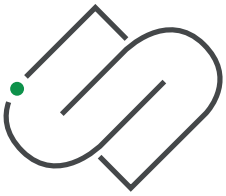
THE EVOLTA® ADVANTAGE

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.

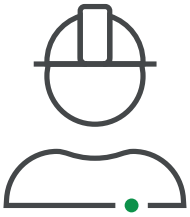


DESIGNED, BUILT AND TESTED BY OUR EXPERTS

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.

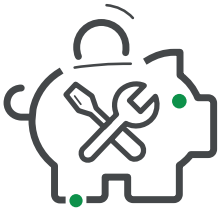
COMPONENT FLANGES DESIGNED AND MANUFACTURED LOCALLY

A perfect combination between boiler and components for optimal performance. GSI 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.



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.

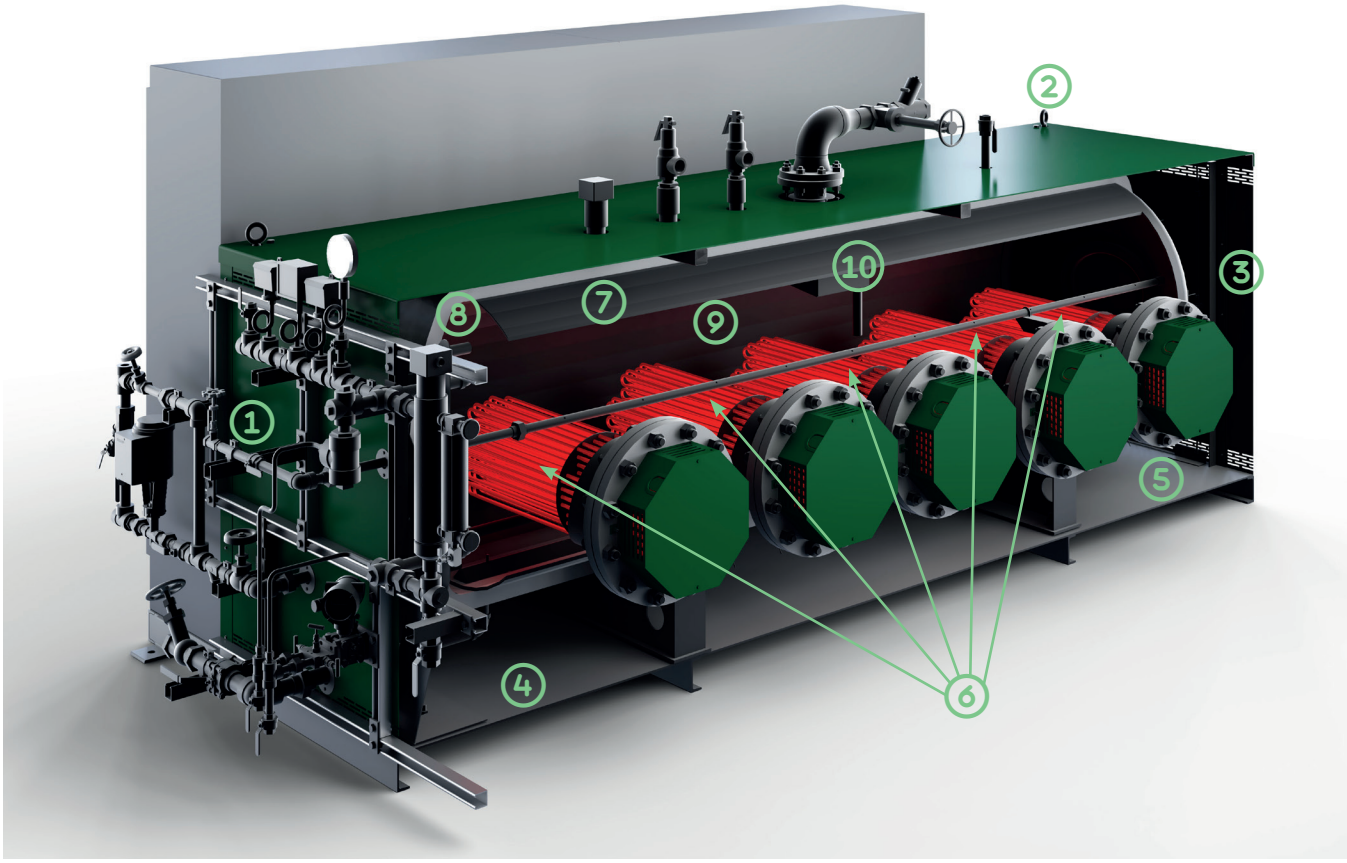


LOW OPERATING & MAINTENANCE COST

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. 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. Large boiling surface to ensure higher quality steam
10. 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

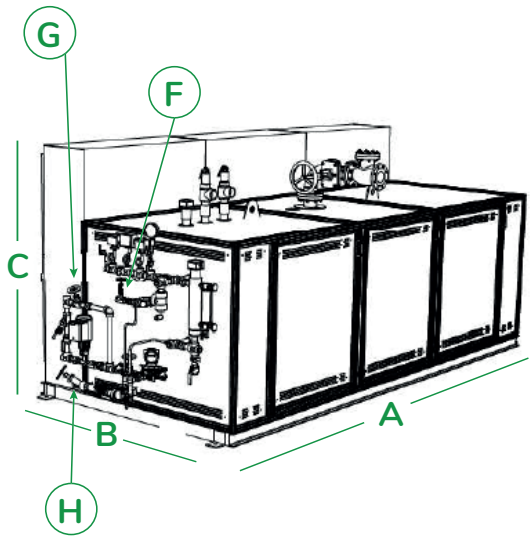
The boiler produces no greenhouse gas emissions
Each hour of use reduces greenhouse gas emissions by 0.25kg/kW compared to an equivalent natural gas boiler*
To minimize the environmental impact while still providing high quality systems, we've implemented a process to reduce our equipment's carbon footprint

**0.35 kg/kW compared to a diesel boiler*

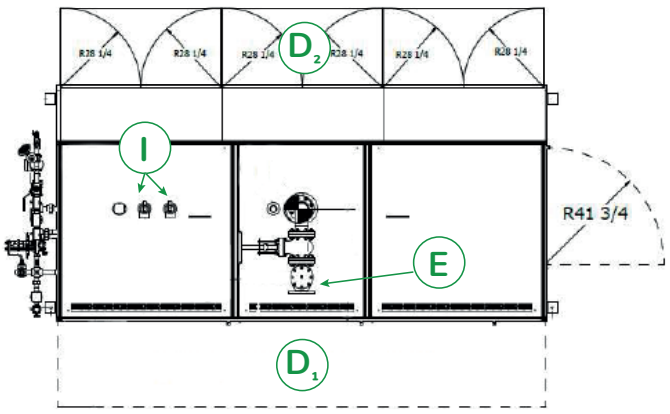
SELECTION CHART

	MODEL			
VOLTAGE	EV63H	EV63I	EV63J	EV63K
600V KW	640 to 960	1 000 to 1 600	1 700 to 2 000	2 250 to 3 660
480V KW	640 to 960	1 000 to 1 700	1 800 to 2 160	2 350 to 3 110

DIMENSIONS CHART



TOP VIEW



		MODEL			
		EV63H	EV63I	EV63J	EV63K
DIMENSIONS*					
A	Length	144	150	180	196
B	Width	63	76	76	84
C	Height	76	76	76	83
D_1	Clearance to remove elements	32	40	40	48
D_2	Clearance panel	40	40	40	40
	Shipping weight (lbs)	5500	7000	8500	10,000
OUVERTURES*					
E	Steam outlet HPS	3	4	6	6
E	Steam outlet LPS	4	6	6	6
F	Continuous blowdown	0.75	0.75	0.75	0.75
G	Feedwater inlet	1	1	1.25	1.5
H	Bottom blowoff HPS	1.25	1.25	1.5	1.5
H	Bottom blowoff LPS	2	2	2	2
I	Safety valve HPS	2	2 x 2	2 x 2	3 x 2**
I	Safety valve LPS	2	2 x 2	2 x 2	3 x 2**

**dimensions in inches*

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

KW STAGES

600V CAPACITY

KW	STAGES
640	8 x 80kW
720	9 x 80kW
800	10 x 80kW
880	11 x 80kW
960	12 x 80kW
1 000	10 x 100kW
1 100	11 x 100kW
1 200	12 x 100kW
1 300	13 x 100kW
1 400	14 x 100kW
1 500	15 x 100kW
1 600	16 x 100kW
1 700	17 x 100kW
1 800	18 x 100kW
1 900	19 x 100kW
2 000	20 x 100kW
2 250	24 x 94kW
2 440	16 x 141kW + 1 x 188kW
2 680	19 x 141kW + 1 x 188kW
2 960	21 x 141kW
3 240	23 x 141kW
3 430	23 x 141kW + 1 x 188kW
3 660	26 x 141kW

KW STAGES

480V CAPACITY

KW	STAGES
640	8 x 80kW
720	9 x 80kW
800	10 x 80kW
880	11 x 80kW
960	12 x 80kW
1 000	15 x 66kW
1 100	15 x 66kW + 1 x 99kW
1 200	12 x 99kW
1 300	13 x 99kW
1 400	14 x 99kW
1 500	15 x 99kW
1 600	16 x 99kW
1 700	17 x 99kW
1 800	18 x 99kW
1 900	19 x 99kW
2 000	20 x 99kW
2 100	21 x 99kW
2 160	20 x 99kW + 1 x 165kW
2 310	18 x 120kW + 1 x 160kW
2 550	20 x 120kW + 1 x 160kW
2 790	22 x 120kW + 1 x 160kW
3 030	24 x 120kW + 1 x 160kW
3 110	26 x 120kW