

**A warm feeling for  
everyone**

## **Ambassador+ / Senator+**

**Wall hung and floor standing condensing  
boilers for the light commercial market**



**Eco**  
Heating Systems



# Eco Heating Systems

## The specialist in central heating and hot water solutions

For more than 20 years we develop, produce and supply innovative solutions for applications in offices, apartments, industry and sport facilities across the world. Due to many projects, we have a wide experience in both central heating and domestic hot water (DHW).

## Our unique selling points

- ✓ Enthusiastic professionals to give the best possible support
- ✓ Unique product features with a stainless steel heat exchanger
- ✓ Wide application range
- ✓ Dutch products developed and produced in a Dutch factory
- ✓ Short delivery time and a flexible attitude
- ✓ Competitive pricing



## Our international sales team



**Paul Verhagen**

*Export Manager*

*[p.verhagen@ecohts.nl](mailto:p.verhagen@ecohts.nl)*

*+31(0)6 12 26 06 54*

# Application range

## Health care centers

✓ Care centers ✓ Hospitals ✓ Health centers ✓ Senior complexes ✓ Residential care centers



## Domestic

✓ Apartment complexes ✓ Flat buildings ✓ Student housing ✓ Refugee centers



## Catering industry

✓ Hotels ✓ Restaurants ✓ Bed & Breakfasts ✓ Youth hostels ✓ Fast food chains





## Recreation

✓ Camping facilities ✓ Bungalow facilities ✓ Wellness centers ✓ Swimming pools ✓ Marinas



## Sport facilities

✓ Sport centers ✓ Sport clubs ✓ Fitness centers



### Work and industry

- ✓ Office buildings
- ✓ Food industry
- ✓ Production facilities
- ✓ Logistics centers
- ✓ Shopping malls
- ✓ Agricultural sector



### Education

- ✓ Schools
- ✓ University campuses
- ✓ Sport training centers
- ✓ Police academies
- ✓ Defense training centers



### Government agencies

- ✓ Fire brigades/barracks
- ✓ Penitentiary facilities
- ✓ Schools
- ✓ Sports federations



### Culture

- ✓ District buildings
- ✓ Baptismal basins in churches
- ✓ Theaters
- ✓ Music centers
- ✓ Dancing schools
- ✓ Museums

# Why Eco Heating Systems?

Our core identity explained



## Accessible

For more than 20 years we develop, produce and supply innovative solutions for applications in offices, apartments, industry and sport facilities across the world. Due to many projects, we have a wide experience in both central heating and domestic hot water which we like to share with our partners. We do this by providing comprehensive advice on project specific issues. This includes saving- and hot water calculations to get the right solution for every project. Contact us for a customized advice.



## Fast and quick

Whether it comes to giving (technical) advice, providing a quotation or delivering our products: a fast and quick service is always important. We therefore attach **great importance** to fast and smooth communication with our customers. By keeping the lines short, we can support you quickly and in optimal way. Do you need any of our products urgently? No problem, both spare parts and complete boilers can be delivered from stock. We also offer support from our service department and of course our export managers.





## Knowledgeable and serviceable

Calculating for hot water projects is one of our daily basis business.

With our knowledge and experience we can easily help you out. We offer an accurate advice to reach the desired solution for your application. Once you have chosen for one of our products, we will ensure the best quality and service support possible.



## Dutch products

We are a Dutch manufacturer of condensing boilers using only Western European high end components. Each boiler is produced and tested in our facilities in Groningen, the Netherlands. With our Dutch approach and flexibility, we are the best possible partner for your business.



**Need more information?** Call **+31 50 547 04 70** or mail to **[sales@ecohts.nl](mailto:sales@ecohts.nl)**





# Ambassador+

## Versatile and flexible heating

The Ambassador+ is a compact wall-hung central heating boiler with a practical design and surprising versatile possibilities. The stainless-steel heat exchanger, with a 10-year warranty, has a very long lifespan. The Ambassador+ units can simply be cascaded thanks to the integrated cascade controller. This way the units will operate as one central heating system.



## The benefits

- ✓ Stainless steel heat exchanger with a 10-year warranty
- ✓ Built-in energy-efficient pump (A label)
- ✓ Wide modulation range
- ✓ Integrated cascade controller for up to 12 boilers
- ✓ Complete cascade packages available
- ✓ Integrated 0-10 VDC control connection
- ✓ Weather dependent temperature control
- ✓ Integrated water pressure sensor
- ✓ Electronic display for status check, fault history and programming
- ✓ Suitable for Building Management Systems (BMS)
- ✓ Integrated real time clock with program functionality
- ✓ Freely programmable priority for central heating or warm water
- ✓ Remote boiler status signal possible
- ✓ High efficient two-step boiler flow control
- ✓ Quick and easy installation
- ✓ Easy maintenance
- ✓ Suitable for natural gas, butane and propane

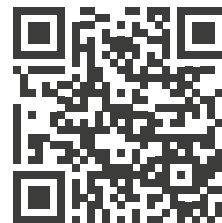




# Ambassador+

## Technical specifications

Scan the QR code  
for more information.



## General

Boiler type		A+60	A+80	A+100	A+120	A+150	A+180
Dimensions (h x w x d)	mm	842 x 476 x 486			898 x 476 x 677		
Water content	liter	3,9	5,0	6,5	8,3	10,4	12,9
Weight empty	kg	46	73	78	83	92	101
Flow/return connection boiler	inch	R 1"	R 1"	R 1"	R 1"	R 1¼"	R 1¼"
Flow/return connection after T-piece	inch	Rp 1¼"	Rp 1¼"	Rp 1¼"	Rp 1¼"	Rp 1½"	Rp 1½"
Gas connection size	inch	R ¾"	R ¾"	R ¾"	R ¾"	R 1"	R 1"
Concentric flue-gas/air connection	mm	80/125	80/125	100/150	100/150	100/150	100/150
Parallel flue-gas/air connection	mm	80-80	80-80	100-100	100-100	130-130	130-130

## Capacity

Boiler type		A+60	A+80	A+100	A+120	A+150	A+180
Nominal input (net) (min. - max.)	kW	12,5 – 55,6	14,6 – 74,3	17,2 – 92,2	26,0 – 111	34,0 – 138	45,0 – 166
Nominal input (gross) (min. - max.)	kW	13,9 – 61,8	16,2 – 82,5	19,1 – 102	28,9 – 123	37,8 – 153	50,0 – 184
Nominal output 80/60°C (min. - max.)	kW	12,0 – 53,5	14,0 – 71,2	16,5 – 88,4	24,7 – 106	32,6 – 132	43,3 – 160
Nominal output 50/30°C (min. - max.)	kW	12,9 – 57,4	15,2 – 77,5	18,0 – 96,2	27,2 – 116	35,5 – 144	47,3 – 175
Nominal output 37/30°C (min. - max.)	kW	13,5 – 59,8	15,7 – 80,1	18,6 – 99,5	28,1 – 120	36,7 – 149	48,5 – 179
Efficiency 40/30°C	%	up to 110.6 % within the Ambassador+ range					



Need more information? Call +31 50 547 04 70 or mail to [sales@ecohts.nl](mailto:sales@ecohts.nl)

# Ambassador+ Cascade

Modular heating system for every heating demand

Scan the QR code  
for more information.



Thanks to the integrated cascade controller, the Ambassador+ boilers can be cascaded up to twelve boilers with only a single cable. Because we are able to supply the complete cascade kit, no calculation for the needed pipework to cascade the boilers is needed. With our kit, the installation of a cascade system is quick and easy. By using the frame work, the system can be placed in the most inaccessible areas.

## Complete cascade kit

- ✓ Frame work
- ✓ Flow and return header
- ✓ Low velocity header
- ✓ Gas header
- ✓ Flow temperature sensor
- ✓ Connection set for each individual boiler
- ✓ Flue gas material



## Popular specifications

Boiler type		A+60	A+80	A+100	A+120	A+150	A+180
Dimensions (h x w x d)	mm	842 x 476 x 486				898 x 476 x 677	
Weight empty	kg	46	73	78	83	92	101
Concentric flue-gas/air connection	mm	80/125	80/125	100/150	100/150	100/150	100/150
Parallel flue-gas/air connection	mm	80-80	80-80	100-100	100-100	130-130	130-130
Nominal input (net) (min. - max.)	kW	12,5 – 55,6	14,6 – 74,3	17,2 – 92,2	26,0 – 111	34,0 – 138	45,0 – 166
Nominal output 80/60°C (min. - max.)	kW	12,0 – 53,5	14,0 – 71,2	16,5 – 88,4	24,7 – 106	32,6 – 132	43,3 – 160
Nominal output 50/30°C (min. - max.)	kW	12,9 – 57,4	15,2 – 77,5	18,0 – 96,2	27,2 – 116	35,5 – 144	47,3 – 175
Nominal output 37/30°C (min. - max.)	kW	13,5 – 59,8	15,7 – 80,1	18,6 – 99,5	28,1 – 120	36,7 – 149	48,5 – 179
Efficiency 40/30°C	%	Up to 110.6 % within the Ambassador+ range					



### Ambassador+ CV Cascade

Modular heating system for every heating demand  
120 - 2160 kW  
Cascade controller standard integrated



# Senator+

## The ultimate commercial boiler

The Senator+ is the ultimate floor standing commercial boiler. With its unique capacities on a very small surface, this boiler is a true one-of-a-kind. Together with the integrated possibility to cascade multiple Senator+ boilers, this boiler is the best solution for every commercial project.



## Reliable

The state-of-the-art boiler design and use of high quality components causes the Senator+ to be very robust. Moreover, by the integrated two-chambered heat exchanger, the Senator+ offers more extra comfort and high reliability, as if two separate appliances were there.

## High efficiency

The Senator+ is a high efficient condensing boiler with two special pre-mix burners enabling a high modulation ratio of 1:8. When combined with appropriate regulation equipment, it results in large savings in energy consumption without any effect on the ambient temperature.

## Easy installation

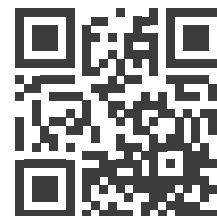
The Senator+ is designed to be installed easily. Due to its space-saving design, it can be moved through standard doors without any problems. The two small wheels mounted under the boiler casing, makes the Senator+ to be very easy to relocate and fit in any boiler room. This makes it an optimal solution for renovation projects where space is limited.

## Weather dependent control

With using an outside temperature sensor, the Senator+ boiler can be regulated depending on the outside temperature. When the outside temperature changes, this information is sent to the boiler by the outside temperature sensor. Then accordingly, the boiler makes necessary adjustments to maintain the room temperature at a constant level.



Scan the QR code  
for more information



## General

Boiler type		S+400	S+550
Dimensions (h x w x d)	mm	161,7 x 73,6 x 122,5	
Weight empty	liter	30	43
Weight empty	kg	400	450
Flow/return connection size	inch	R 2½"	
Gas connection size	inch	R 2"	
Flue-gas/air flow connection size	mm	180-180	

## Capacity

Boiler type		S+400	S+550
Nominal input (net) (min. - max.)	kW	50,0 – 400	68,0 – 550
Nominal input (gross) (min. - max.)	kW	55,5 – 444	75,5 – 611
Nominal output 80/60°C (min. - max.)	kW	48,3 – 386	66,1 – 535
Nominal output 50/30°C (min. - max.)	kW	52,2 – 418	71,2 – 576
Nominal output 37/30°C (min. - max.)	kW	54,1 – 433	73,7 – 597
Efficiency 40/30°C	%	Up to 109,5%	

## The benefits

- ✓ High efficiency
- ✓ Unique capacities on a small surface
- ✓ Operates on natural gas and on propane or butane-propane mixtures
- ✓ Robust, reliable and durable
- ✓ Space-saving dimensions
- ✓ High modulation of 1: 8
- ✓ Double premix burner
- ✓ Built-in cascade controller for up to six boilers
- ✓ Built-in weather dependent temperature control
- ✓ Built-in 0-10 Vdc control connection and Open Therm connection
- ✓ Remote boiler status signal for heat demand, operating and fault indication
- ✓ Suitable for building management system (BMS) via 0-10 Vdc connection and remote status signaling
- ✓ Quick and easy installation
- ✓ Easy maintenance
- ✓ Low noise levels
- ✓ Fits through standard doorways
- ✓ Small flue diameters

# Senator+ Cascade

When big isn't big enough!

## Senator+ Cascade

Cascade manager standard integrated  
400 – 3300 kW

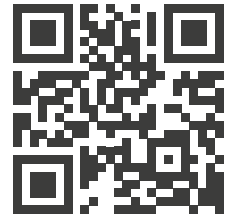




## In need of domestic hot water?

Let us help you out!

Scan the QR code  
for more information.



### CD+

Complete high efficiency water heater

### Combining creatively for high comfort

The CD+ range is a series of hot water boilers consisting of five types with increasing capacity. Those direct fired water heaters are very innovative due to their capacity and can be combined with several different storage tanks. The fully stainless steel equipped boiler has an A-label mark as flow-through water heater.

### Consul+

Strong soloist in hot water preparation

### Plenty of hot water!

Our Consul+ is a complete direct fired water heater, available in various capacities. With this plug and play solution, it is possible to provide an installation that meets the needs of any desired hot water demand.





**We believe in the strength of our partners!**

## Service and support

We believe in the strength of our partners. Craftsmanship, customer oriented and always looking for the best solution for the customer; that's how we stand together with our partners to realize a great partnership.

We are there to support in any way we can.



P.O. Box 5145  
9700 GC Groningen  
The Netherlands



Rigaweg 10  
9723 TH Groningen  
The Netherlands



T + 31 (0)50 547 04 70  
F + 31 (0)50 547 04 98  
sales@ecohs.nl

Social media:



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