



SENATOR
400kW and 550kW

EFFICIENCY



CONDENSING FLOOR STANDING BOILERS

SENATOR 400kW and 550kW

The SIMONS Senator range are compact and floor standing high efficiency condensing boilers with a reputation for quality, durability and flexible design. With Indoor and Outdoor models from 400 kW and 550 kW, this range caters for any application within variety of heating sectors.

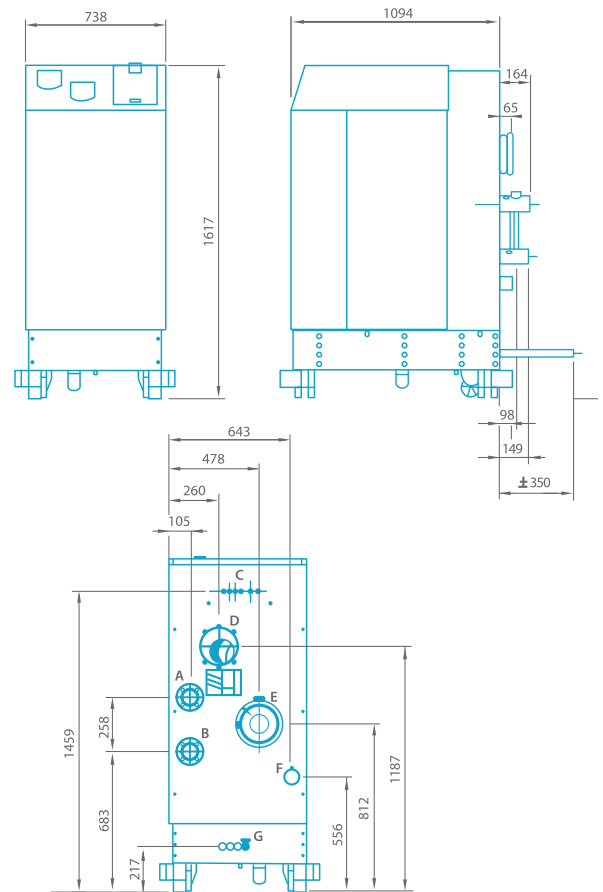
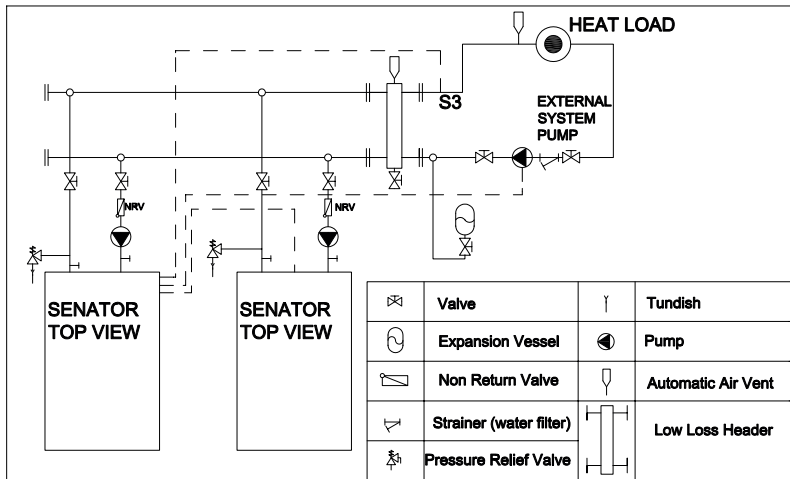
FEATURES

- **CASCADE** Sequence Control Capable for up to 12 boilers
- **ABIENT** temperature compensation control
- **BMS** interface for remote 0-10v temp reset BMS
- **6 BAR** operating pressure
- **Stainless steel heat exchanger** European quality with 5 year structural guarantee. High quality components with lowest possible operating and maintenance costs.
- **Controllers & thermostats** - Equipped with the feature of giving each group a possibility to connect its own thermostat, this controller can be regulated / set according to the ambient heat required by the user.
- **Outside temperature control** - With an optional outside temperature sensor, Simons boilers can also be regulated depending on the outside temperature.
- **Internal or external**

BENEFITS

- High modulation range
- Built-in;
 - Cascade Controller
 - Water Pressure Sensor
 - Real Time Clock
 - Open-therm Connection
 - Weather Dependent Temperature Control
- Remote boiler status signal for Heat Demand, Operating & Fault indication due to its 3 potential free contacts
- For heating and hot water, there are three programmable periods in each day for setting normal and reduced set-point.
- High Efficiency two-step boiler flow control
- Suitable for Building Management Systems (BMS) via 0-10V connection and remote status signaling
- Quick and easy installation
- Easy maintenance

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STANDARD COMPONENTS

- Cascade manager
- Open Therm connection
- 0-10 Volt control connection
- Weather dependent temperature controller**
- BMS Interface
- ** Outside temperature sensor is an ancillary and must be purchased separately

TECHNICAL SPECIFICATIONS

MODEL		SENATOR	
		TYPE B AGA APPROVAL	TYPE B AGA APPROVAL
Classification		Type NG or LPG	Type NG or LPG
Gas		Type NG or LPG	Type NG or LPG
MODEL NO		S 400	S 550
Dimensions H x W x L (indoor)	mm	1617 x 736 x 1225	1617 x 736 x 1225
Dimensions H x W x L (outdoor)	mm	1690 x 750 x 1250	1690 x 750 x 1250
Weight (dry)	Kg	400	450
Water content	litres	30	43
Water connections	mm	65	65
Gas connection	mm	50	50
Condensate connection	mm	25	25
Flue size (Indoor)	mm	200	200
Electrical Connection	V / Amp	240 / 10	240 / 10
Nominal Gas Input	Mh/hr	1490	2000
Gas Pressure	Min / Max kpa	1.5 / 3.5	1.5 / 3.5
Max Output at 80/60°C	kW	381	526
Max Output at 50/30°C	kW	400	550
Min Operating Turndown	%	12.5	12.5
Min Net Efficiency at 50/30°C	%	107	107
Min Net Efficiency at 80/60 °C	%	97	97.2
Operating Temperature max /min	°C	90 / 20	90 / 20
Gross seasonal efficiency	%	92.54	92.89
Operating Pressure min/max	Bar /kpa	1 / 6 100 / 600	1 / 6 100 / 600
Nox-Class	ICPA	5	5
DIN4702-8 rating	%	109.5	109.5

Specifications subject to change without notice. Warranty conditional on verified maintenance.

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